

ESCHA – About us

ESCHA has stood for quality and highest competence in the field of connectivity and enclosure technology for more than 25 years.

Our production site with more than 400 employees is located in Germany, in Halver in the picturesque Sauerland. Our strengths lie in custom-made products and in a highly in-depth development and production. As the innovation leader we periodically realise product novelties, which bring dynamics to the automation-components market.

We permanently continue to develop our standard product range in order to be able to provide you with the appropriate components for your application. Our research and development result in products of highly technical standard.

Our strength is the wide variety

Based on familiar standard products, we modify the components according to your requirements to meet the conditions of your application with low costs. Tailor-made automation components according to protection class IP67, IP68 and IP69K are our daily business.

We provide you with your individual connectivity from one source and in short lead time through professional project management.

For your application, you can rely on components which guarantee you more than the safe transmission of signals and performance.

We look forward to supporting you.



ESCHA products are worldwide available
at our partner and representations.

Argentina | Australia | Austria | Bahrain
Barbados | Belarus | Belgium | Bosnia and
Herzegovina | Brazil | Bulgaria | Canada
Chile | China | Colombia | Costa Rica | Cro-
atia | Cyprus | Czech Republic | Denmark
Dominican Republic | Ecuador | El Salvador
Estonia | Finland | France | Great Britain
Greece | Guatemala | Guyana | Honduras
Hong Kong | Hungary | Iceland | India | In-
donesia | Iran | Ireland | Israel | Italy | Japan
Latvia | Lebanon | Lithuania | Macedonia
Malaysia | Moldova Republic | Montenegro
Netherlands | New Zealand | Norway | Oman
Panama | Peru | Philippines | Poland | Por-
tugal | Puerto Rico | Qatar | Romania | Russia
Saudi Arabia | Serbia | Singapore | Slovakia
South Africa | Spain | Sweden | Switzerland
Taiwan | Thailand | Trinidad and Tobago
Turkey | United Arab Emirates | Uruguay
USA | Venezuela | Vietnam



Customer-Service-Center

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The contact details of all our sales partners are available at **www.escha.de**

When will you visit us?

Car via A1

You leave the expressway A1 at exit Remscheid and follow highway B229 in the direction Lüdenscheid. After 22 kilometres turn to the right at the traffic light, direction Halver centre; on the left side you can see the building of company ESCHA.

Car via A45

From expressway A45, direction Lüdenscheid follow highway B229 in direction Halver, Hagen, Remscheid. In Halver turn to one's right at the t-cross-way and follow B229 in direction Remscheid.

At the second traffic light turn to one's left, direction Halver: on the left side you can see the building of company ESCHA.

Train

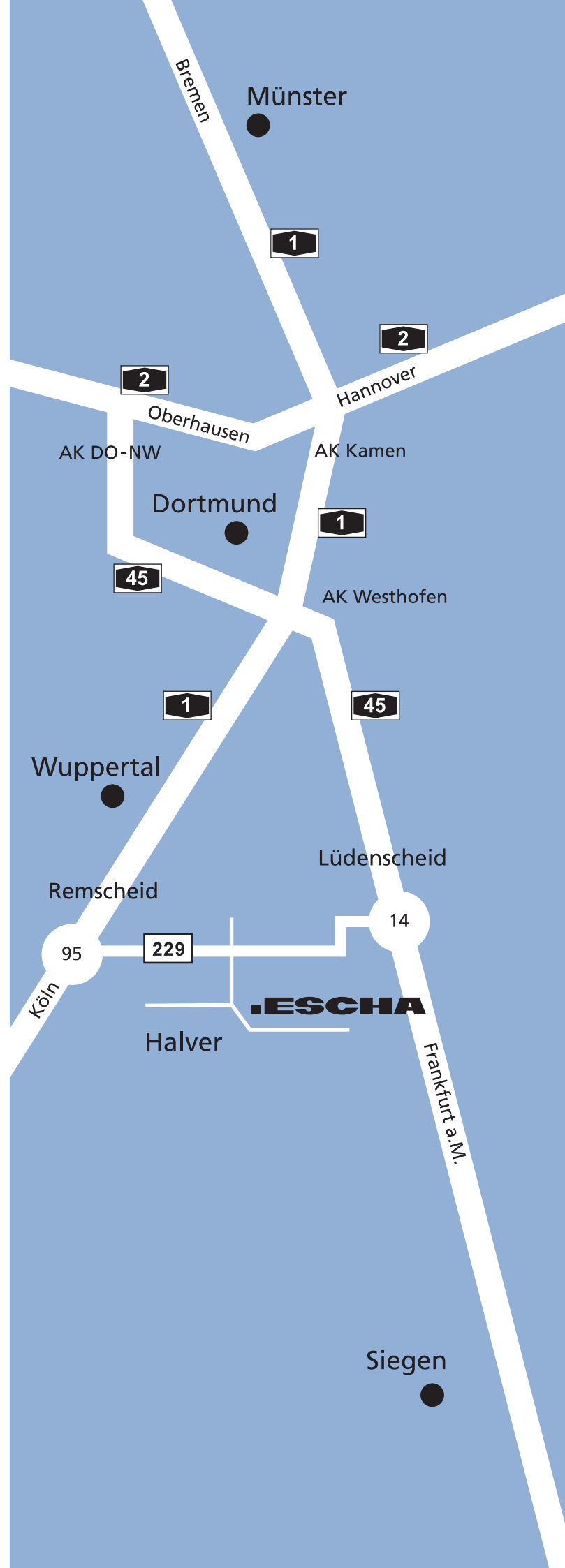
By journey with train we advise Hagen as destination station. This station is integrated into the ICE route system.

Airplane

The airports Düsseldorf/Rhein-Ruhr, Dortmund and Köln-Bonn remote each with nearly one hour's drive from Halver. Concerning the transfer from the station or airport we would like to ask you to contact our employees.

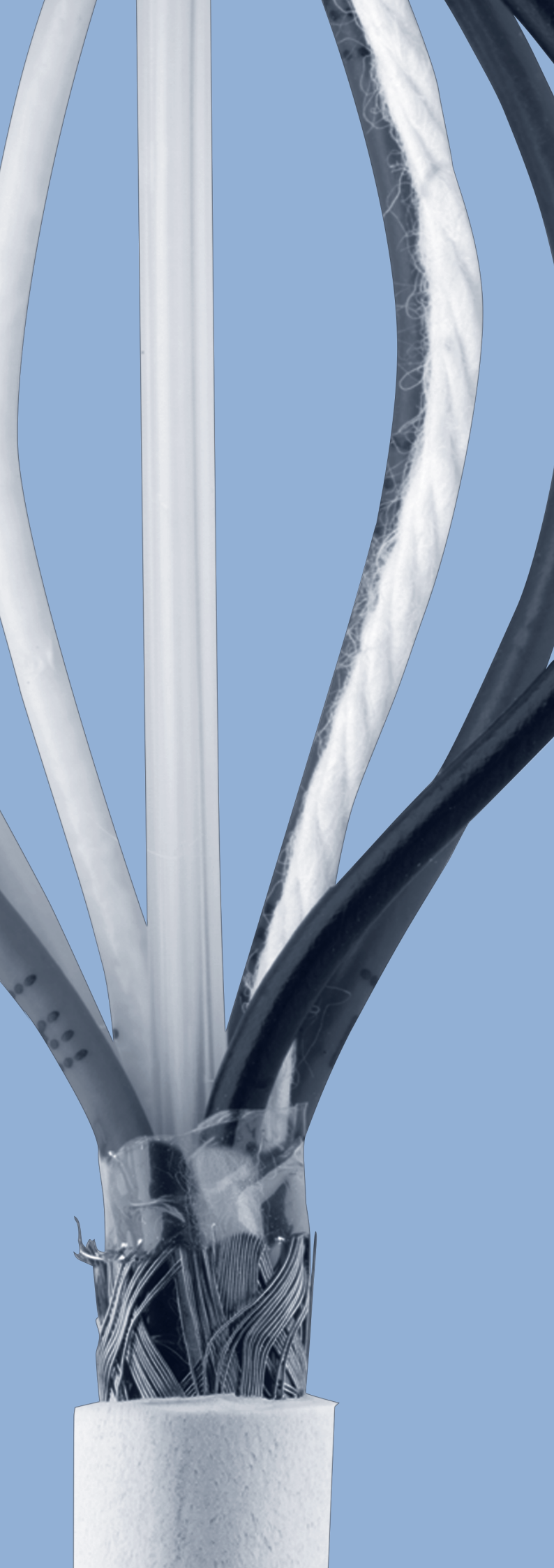
Our address

58553 Halver | Elberfelder Straße 32



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Comprehensive Information on Connectors

■ Special user information

The respective requirements of machinery specifications are binding for the user with connector applications. All ESCHA-connectors are designed and made according to DIN VDE 0627 (new EN 61984). The relevant standards and specifications according to which our products are made and tested are explained in the following.

■ DIN VDE 0627; June 1986, Connectors and Connecting Devices

This standard has been under revision for a long time and will soon be internationally valid. The standard is valid for connectors and connecting devices with rated voltages up to 1000V ~ or 1500V – and rated currents up to 125A per contact intended for connecting assemblies or components in or on machinery or measuring-, instrumentation- or control circuits considering safety aspects. It is also valid for connectors and connecting devices on household appliances as well as information-processing units.

■ IEC 60664-1; November 1992, Coordination of Isolation

This international standard, which complies with the German standard DIN VDE 0110 -1, April 97 edition, is a basic safety standard for achieving the coordination of isolation. It contains the required data to determine air distances, creep distances and solid insulations for electrical devices (e.g. connectors). This is realised considering the micro-ambient conditions and other loads they are exposed to in the course of the expected service life. Processes for the voltage test related to the coordination of isolation are included.

■ IEC 60512; May 1994, Measuring- and Testing-Process

This international standard corresponds to the European standard DIN EN 60512 and has replaced the previous German standard DIN 41640. It determines the measuring- and testing-processes for electromechanical components (e.g. connectors). The standard is very comprehensive and consists of 9 sections in total in which all electrical, mechanical and climatic tests are described. In addition, the standard contains tests on soldering ability, density, shielding and cable pull-out support.

■ IEC 60529; November 1992, Degrees of Protection by Housing (IP-Code)

This international standard corresponds to the European standard DIN EN 60529 and complies with the German standard DIN VDE 0470 -1, November 92 edition. It determines the designation, requirements and tests for the classification of protection degrees by housings for electrical devices (e.g. connectors). Thereby, protection against access to dangerous parts, protection against solid foreign bodies and protection against water are evaluated. The degree of protection is designated by an IP-code.

■ IEC 60068-1; March 1995, Environmental Tests

This international standard which complies with the European standard DIN EN 60068 -1, contains basic determinations on environmental tests and degree of test-precision. This testing process serves to trace the resistivity of components to expected environmental influences under operating conditions. Typical tests are: coldness, dry and humid heat, shock, vibration, temperature fluctuation and others.

Changes in design are subject to further notice for reasons of quality improvements, refinement or production optimisation.

The technical data stated in the catalogue refer to connectors, i.e. components which must not be plugged or unplugged under voltage.

ESCHA-connectors are electronic components and are not subject to CE-designation. This is confirmed by the European commission directives for low-voltage- and EMC-guide lines.

In order to secure the correct use of the products, the technical data are listed. It is possible to select the right products using these data. The products are described as well, however the properties are not assured.

All ESCHA-connectors have been developed and designed for applications in plant-, control and electric device construction. It is up to the user to verify the possibility of using the connectors in other application areas as well.

All data concerning the IP-degrees of protection are only guaranteed for the connections of ESCHA-components.

■ Supplementary information to the technical data stated in the catalogue

Characteristic	Standard ¹⁾	Note
Protection degree housing	IEC 60529	Data in plugged condition. For more information on IP-degrees of protection page 1.8 – 1.9
Mechanical service life	IEC 60512-5/9a	Test is done without electrical load
Rated voltage	IEC 60664-1	The stated value is defined in connection with degree of pollution and overvoltage category
Degree of pollution	IEC 60664-1	
Current load	IEC 60512-3/5b	
Contact resistance	IEC 60512-2/2a	Contact resistance contact-pin/contact-bush in plugged condition throughout a defined range
Insulation resistance	IEC 60512-2/3a	Insulation between two conducting parts (dependent on material)

¹⁾ The technical data represent initial values which can change depending on load.

The housings have to be included in the device protective-measures when mounting electrically conductive flange housings.

The cables to be connected should be insulated in such a way that the distances to electrically conductive parts are not reduced. When soldering the cables, care must be taken that none of the single wires is projecting which can cause short circuits.

Degrees of Protection

For reasons of safety, connectors must be protected against environmental influences, e.g. dust, foreign bodies, touch, humidity and water. In case of industrial connectors, this protection must be provided for by the housing and its locking as well as the insulation on cable outlet.

The degrees of protection are indicated by an abbreviation consisting of two constant characteristic letters IP (International Protection) and two following digits for the protection degree. The first digit indicates the protection degree against touch and foreign bodies. The second digit indicates the protection against damaging ingress of water.

The designation is effected as follows:



All data are only valid in locked condition.
Awarding degrees of protection is subject to a standardised testing procedure.

Digit 1		
0	Unprotected	
1	Protected against access to dangerous parts by hand pressure. Protected against solid foreign bodies Ø50mm.	
2	Protected against access to dangerous parts by fingers. Protected against solid foreign bodies Ø12.5mm.	
3	Protected against access to dangerous parts by a tool. Protected solid foreign bodies Ø2.5mm.	
4	Protected against access to dangerous parts by a wire. Protected against solid foreign bodies Ø1mm.	
5	Protected against access to dangerous parts by a wire. Protected against dust.	Penetration of dust is not completely prevented but dust must not penetrate in such quantity affecting the faultless operation of device or the safety.
6	Protected against access to dangerous parts by wire. Dustproof.	No dust penetration.

Digit 2

0	Unprotected	
1	Protected against dripping water	
2	Protected against dripping water when housing is inclined up to 15°	
3	Protected against spraying water	Water being vertically sprayed at 60° from both sides must have no damaging effects.
4	Protected against sprinkling water	Water being sprinkled against the housing from each direction must have no damaging effects.
5	Protected against water-jet	
6	Protected against a strong water-jet	
7	Protected against effects due to temporary immersion in water.	Water must not penetrate in such quantity causing damaging effects when housing is immersed in water at 1 m for 30 minutes.
8	Protected against effects due to permanent immersion in water.	Water must not penetrate in such quantity causing damaging effects when housing permanently immersed in water under conditions to be agreed upon between manufacturer and user. However, conditions must be more difficult than with digit 7.
9K	Protected against water by high-pressure steam-jet cleaning	

Overview PG-thread vs. Metric thread

The interim period for DIN 46320 „screwing for cables and conducting lines with PG-thread“ expired on 31.12.1999. Since then, screwing for cables and conducting lines had to comply with the national standard 46319 before this was replaced by EN 50262 on 01.03.2001.

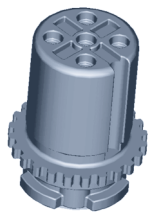
Comparison PG-thread vs. Metric thread

Wrench width for cable screwing according to EN 50262

PG	Metric thread	max. Wrench width [mm]	max. Corner length [mm]
PG7	M 10x1.5 M 12x1.5	16	18
PG9 PG11	M 16x1.5	21	23
PG13.5	M 20x1.5	25	28

A | B Coding of M 12x1 Connectors

To guarantee protection against polarity reversal, connectors are coded. This coding is realised by a peg or a notch on the contact carrier. Two coding types are distinguished



A-Coding
Coupling has coding-notch
Plug has coding-peg



B-Coding
Coupling has coding-peg
Plug has coding-notch

Note: B-coded couplings and plugs from ESCHA are marked by the letter W (see Type-code).

Colour guide

WH white	BN brown	GN green	YE yellow	GY grey
PK pink	BU blue	RD red	BK black	VT violet
GY/PK grey/pink	RD/BU red/blue	WH/GN white/green		
BN/GN brown/green	WH/YE white/yellow	YE/BN yellow/brown		
WH/GY white/grey	GY/BN grey/brown	GN/YE green/yellow		

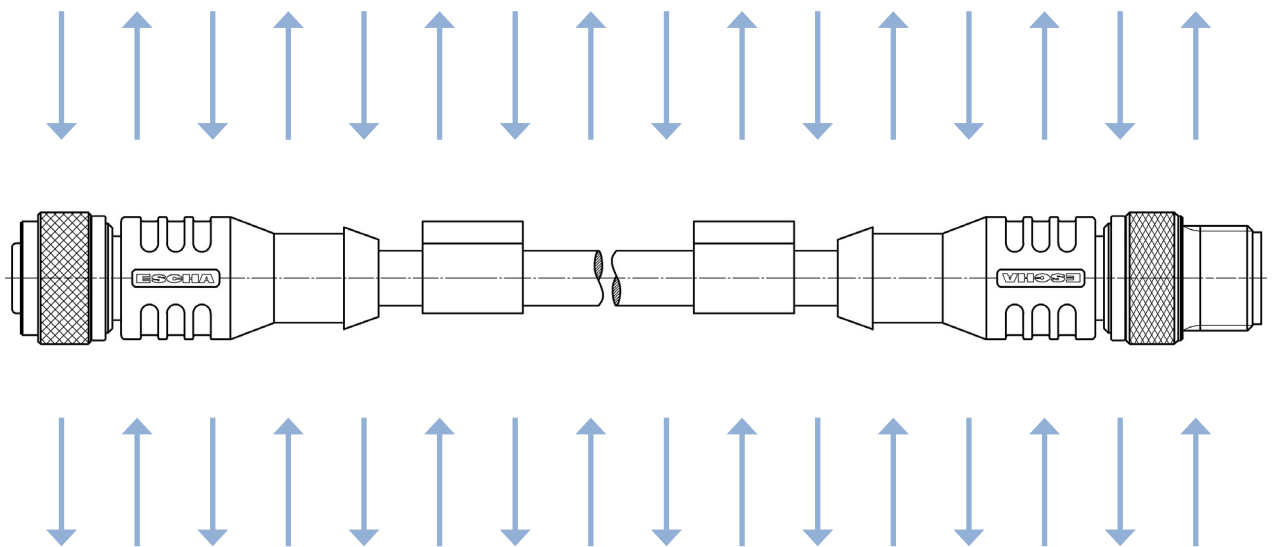
Shielding

EMC of devices has gained more significance since the publication of the law on electromagnetic compatibility.

The devices have to be made in such a way that:

1. The generation of electromagnetic interferences is so limited that a proper operation of these devices is possible (running-out arrows).
2. The devices have an adequate stability against electromagnetic interferences so that a proper operation is possible (running-in arrows).

EMC-radiation



In order to meet the manufacturers' requirements, shielded connectors, to which shielded cables can be connected, are being used more and more frequently. Conductive housings which can be connected with the cable-shield are used.

In case of round connectors, care should be taken that the shield-mesh of the cable is carefully attached to the shield-end of the connector. An all around contact surface (of 360°) is optimal. Good (often sufficient in practice) shielding-values are often achieved if the shield-mesh is firmly connected with the conductive housing. All-plastic connectors without metal bushings on which the shield-mesh cannot be laid on, are insufficient.

Furthermore, it is still important to obtain a faultless contact with the counter connector when plugging and the latter itself has a good contact with the device chassis. The shield damping is given in decibel (db) and is dependent on the frequency. Good shielding has a high shield-damping which does not significantly drop throughout a wide frequency range (MHz).

Materials information

Two material-groups are used for the connectors described in the catalogue:

- Metals for contacts and housings
- Plastics for insulators and housings

Materials for contacts

Properties of contacts are largely determined by the materials used.
Some of the decisive features are:

- Strength or elastic qualities
- Electrical conductivity
- Max. operating temperature

Considering these points, reliable copper alloys for the manufacturing of contacts are used (CuZn) at ESCHA.

CuZn combines good strength with good conductivity and temperature resistance.

Materials for metal housings

Depending on application, brass, die-cast Zinc or stainless steel are used for the metal housings.
Due to its good workability and strength, brass is mainly used for round housing parts.

Plastics for insulators

Thermoplastic polyurethane is mainly used for insulators and contact carriers of ESCHA-connectors.

Surface treatment

In order to protect the contacts and housing against aggressive environmental conditions and improve the conductivity, they are provided with adequate surfaces. ESCHA-contacts are gold-plated or silver-plated. These surfaces improve the conductivity and are corrosion-resistant. In case of applications in mA-range with lowest voltages, the use of gold-plated contacts to improve the electrical properties is recommended which also contributes to further improvement of corrosionresistance. For reasons of corrosion and optics, housings are nickel-plated, chrome-plated, Teflon-treated, or made of stainless steel.

Materials for sealing

Sealing-rings made of elastic materials are used with all ESCHA-round connectors to achieve the required degree of protection. Depending on application, nitril-butardien-rubber (NBR) or flour-rubber (FKM/FPM) have been selected for this purpose.

Plastics for housings

Glass fibre-reinforced PA (polyamide) is mainly used for plastic housings. This well-proven plastic is very cohesive, abrasion-proof, resistant to solvents, oils and lubricants and can be used at up to a permanent temperature of 100°C–120°C.

Further features of this material are:

- High mechanical strength
- High stiffness
- High thermal resistance
- Good electrical insulating-property
- Good resistance against several chemicals

Characteristic data of the metals used

Surfaces

Material	Symbol	Conductivity [m/Ω×mm²]	Tensile strength [N/mm²]	Limit temperature[°C]	Corrosion-resistant
gold	Au	44	–	–	very good
silver	Ag	62	–	–	good
nickel	Ni	10	–	–	very good

Basematerial

Material	Symbol	Conductivity [m/Ω×mm²]	Tensile strength [N/mm²]	Limit temperature[°C]	Corrosion-resistant
copper	Cu	55	approx. 400	90	conditionally resistant, surface recommended
brass	CuZn	15	approx. 500	90	conditionally resistant, surface recommended
tinbronze	CuSn	9	approx. 700	120	good
zinc diecasting	GD-Zn	16	approx. 300	–	not resistant, surface required

Chemical resistance of used plastics and elastomeres

		TPU		Polyamide		Nidril-rubber (NBR)		Fluor-rubber (FPM)
Hydrocarbons								
	Gasoline, normal grade	■		■		■		■
	Heating oil, diesel oil	■		■		■		■
	Benzol	—		■		—		■
	Naphalin	■		■		■		
Alcohols								
	Ethyl alcohol			□		■		■
	Isopropanol	□		□		■		■
	Glykol	■		—		■		■
	Glycerin	■		■		■		□
	Ketone			—		■		
	Aceton	—		■		—		—
Acids								
	Hydrochloric acid	20%	■	3%	—	□		■
	Nitric acid	10%	—	3%	—	□		■
	Phosphoric acid	30%	■	3%	—	■		■
	Sulphuric acid	30%	■	3%	—	■		■
	Citric acid		■	3%	■	■		■
	Lactic acid	10%	■	3%	■	□		■
	Acetic acid	10%	■	3%	□	■		■
Bases								
	Soda lye	10%	■	3%	■	□		□
	Ammonia solution, diluted		■	3%	■	■		■
Oils, lubricants								
	Mineral oils		■		■	■		□
	ASTM oil 1		■					
	ASTM oil 2		■					
	ASTM oil 3		■					
	Hydraulic oils		■		■			
Detergents								
	Washing agents			■		■		■
	Detergents			■		■		■
	Sea water		■		■	■		■

■ resistant

□ conditionally resistant

— not resistant

Standard cable qualities

Cable qualities

■ P00 | S 1118 | S 2010 = PVC

All PVC-cable, adapted for average mechanical stresses in the area of packing machines as well as assembly- and production-lines. Good resistance against acids and lye and therefore predestined for use in the food- and beverage-industry. Restricted abrasion behaviour and limited oil- and chemicals-resistance are provided.

■ XOR = PVC | irradiated

The irradiated outer jacket of this all-PVC-cable provides for higher inherent stability at higher temperatures, increased mechanical strength, improved chemical resistance as well as better abrasion behaviour compared with the normal PVC cable. Predestined for use in welding areas.

■ S 90 = PUR | PVC

All-round cable with PUR-outer jacket and PVC-wire insulation adapted for use in the areas of machine tool, assembly- and production-lines as well as in metal-cutting production. In addition to its good oil- and chemicals-resistance, this cable has a high abrasion strength. Use in a drag-chain is possible.

■ S 74 = PUR, PVC- and halogenfree and highly flexible

Specially developed and permanently flexible control-cable for use in industrial robots, rotary- and swing-tables as well as machine-control cables for extreme conditions. This cable is used wherever bending and torsion strains occur simultaneously and longer service periods are required. The PUR outer jacket provides for a very good resistance against oils, lubricants and coolants and other aggressive agents. This cable can be used at permanent temperatures up to +105°C.

■ S 366 | S 1117 | S 2020 = PUR, PVC- and halogenfree

Flexible, PVC- and halogen-free control-cable with PUR outer jacket and polypropylene wire-insulation. The temperature resistance ranges from -40°C to +90°C. Oil resistance and non-inflammability are according to VDE 0472. The drag-chain application is possible at a bending radius of min. 10x cable diameter. This cable is very well adapted for the flexible use in the area of robotics, machine tool and metal-cutting production.

■ S 398 = PUR, irradiated, PVC- and halogenfree, highly flexible

The irradiated PUR outer jacket obviously improves the PUR-typical properties. The mechanical strength as well as the abrasion behaviour are upgraded and resistance against weld-sparks is achieved as well. Adapted for use in the area of robotics, special weld-robots, machine tool, assembly lines and metal-cutting production. This bending- and torsion-resistant cable can be used at permanent temperatures up to +105°C.

Application areas of cable qualities

All data in this matrix are based on experience and only serve as basic orientation referring to recommended business sectors or applications.

Cable Quality	Application Areas					
	Packing and handling	Assembly- and production-lines	Welding applications	Machine-tool and metal-cutting production	Drag-chain applications *	Industrial robots, rotating- and swing tables
P00 S1118 S2010 = PVC for average mechanical stresses, limited abrasion behaviour, conditional oil resistance, conditional resistance to chemicals	■	■				■
XOR = PVC irradiated increased form stability at higher temperatures (interlacing of outer jacket), increased mechanical strength, improved chemical resistance, better abrasion behaviour (compared with normal PVC-cable)			■			
S74 = PUR, PVC- and halogenfree and highly flexible polyester insulation of inner wires, non-inflammability VDE 0472, section 804, temperature-resistant -40°C to + 105°C, resistant to hydrolysis, permanently flexible control cable, use at simultaneous bending and torsion-stresses, longer down-times, very good resistance to oils, lubricants and coolants, very good resistance to aggressive agents					■	■
S90 = PUR PVC good oil-resistance, good resistance to chemicals, high abrasion strength		■		■	■	■
S366 S1117 S2020 = PUR, PVC- and halogenfree flexible PUR- outer jacket, polypropylene wire insulation, temperature-resistance -40°C to +90°C, oil-resistant according VDE 0472, section 803, non-inflammability VDE 0472, section 804		■		■	■	■
S398 = PUR, irradiated, PVC- and halogenfree, highly flexible interlaced PUR-outer jacket, temperature-resistant -40°C to +90°C, resistant to welding spatter, polyurethane halogen-free, resistant to microbes, resistant to hydrolysis, oil-resistant according to VDE 0472, section 803, non-inflammability VDE 0472, section 804			■		■	■

* bending radius
min. 10x cable diameter

Cable material-data

Materials	PVC	PUR	TPE-E	X-PVC	X-PUR	PP	PE
Outer-jacket	P00 S1118 S2010	S90, S366 S74, S1117 S2020		XOR	S398		
Wire insulation	P00, S90		S74	XOR		S366	S398
Material symbol	Y	11Y	12Y	X	11X	9Y	2Y
Temperature resistance permanent	70°C	90°C	105°C	80°C	90°C	70°C	90°C
Temperature resistance until 500h	—	—	150°C	—	—	80°C	110°C ¹
Temperature resistance temporary	—	—	—	250°Cx6h	250°Cx6h	110°C	140°C ¹
Short-circuit proof according to VDE0298	160°Cx5s	160°Cx5s	160°Cx5s	160°Cx5s	160°Cx5s	160°Cx5s	—
Non-inflammability according to DIN VDE 0472 section 804	●	● ²	●	●	●	● ²	● ²
Oil-resistance according to DIN VDE 0472	● ³	●●	○	●● ³	●● ³	●	●
Acid-resistance sulphuric acid (battery acid)	○	○	●	●	●	●	●
Acid-resistance hydrochloric acid 20%	○	○	●	●	●	●	●
General chemical-resistance	○ ⁴	○ ⁴	●	● ⁴	● ⁴	●	●
Hydrolysis-resistance	●	●	●	●	●	●	●
Microbes-resistance	●	●	●	●	●	●	●
Cold-winding resistance	-15°C	-40°C	-50°C	-15°C	-40°C	—	—
Cold-shock resistance	-15°C	-40°C	-50°C	-15°C	-40°C	—	—
Cold-intrusion temperature according to DIN 53372	-30°C	-60°C	-70°C	-30°C	-60°C	-50°C	-10°C
Ozone- and UV-resistance	●	●	●	●●●	●●●	●	●
Abrasion strength	●	●●●	●	●●●	●●●	●	●
HOT-SET-values (heat expansion)	—	—	—	● ⁵	● ⁵	—	—
Specific insulation resistance RSDw (Ωxcm)	>10	>10	>10	>10	>10	>10	>10
Direct-current resistance	●	●	●	●●●	●●●	●●●	●●●
Dielectric strength [kV/mm]	●	●	70	●●●	●●●	50	30
Specific weight	1,40	1,17	1,25	1,36	1,36	0,94	0,91
Halogen-free	no	yes ⁷	yes ⁶	no	yes ⁷	yes ⁶	yes ⁶

¹ without mechanical stresses

² if necessary

³ indicate possible oil contamination

⁴ individually modifiable

⁵ if necessary

⁶ if not non-inflammable

⁷ also if inflammable

●●● very good

●● very good to good

● good

○ conditionally resistant

Chemical resistance of outer jacket

Outer jacket	Soft-PVC P00, XOR, S 1118, S 2010	PUR-elastomer S90, S366, S74, S398, S1117, S2020
Chemical		
Aceton	—	—
Aluminium chloride 10%	●●	●
Formic acid	—	—
Amoniac	○	●●
Ammonium chloride	●●	●
Anilin	—	—
ASTM-oil I	●●	●●
ASTM-oil II	●●	●●
ASTM-oil III	●●	●●
ASTM-fuel I	●●	●●
ASTM-fuel II	●	○
ASTM-fuel III	●	○
Benzene	—	—
Brake-fluid ATE	●	—
Butanol	—	—
Butylacetat	—	—
Calcium chloride 40%	●●	●
Chlorobenzenel	—	—
Chloroform	—	—
Chrome acid	—	—
Cyclohexan	—	○
Cyclohexanon	—	—
Diesel oil	—	●
Dimethylformamid	—	—
Iron-III-chloride 10%	●●	●
Vinegar acid 10%	●	●
Ethanol	—	○
Ethyl ether	—	○
Ethylacetat	—	—
Ethylene chloride	—	●
Freon 12	●	○
Frieon 22	●	○
Transmission oil SAE90	●	—
Glycerin	●●	●●
Glykol	○	●●
Isopropanol	—	○
Lye 10%	●●	●●
Bichromate of potash	●●	●●
Potassium nitrate	●●	●●
Potassium permanganate	○	—
Magnesium chloride 30%	●●	●
Methanol	—	○
Metyl acetate	—	—
Methylene chloride	—	—
Methyl ethylketon	—	○
Methyl glykol	—	—
Methyl glykolacetate	—	—
Lactic acid 10%	●●	○

Outer jacket	Soft-PVC P00, XOR, S 1118, S2010	PUR-elastomer S90, S366, S74, S398, S1117, S2020
Chemical		
Sodium chloride 10%	●●	●
Sodium hypo-chloride solution	○	●●
Soda lye 10%	●●	●●
Ozone	●●	●●
Per-chlorine ethylene	●●	—
Petrol ether	—	●●
Petrol	—	●
Phosphoric acid	●●	—
Nitric acid	—	—
Hydrochloric acid	●●	●●
Carbon disulfide	—	—
Sulphur carbonate 30%	●●	●●
Tetra chlorethylene	—	—
Carbon tetrachloride	—	—
Tetra hydro furan	—	—
Toluene	—	—
Trichloroethylene	—	—
Hydrogen peroxide 3%	●●	●●
Xylol	—	—

●● resistant ● largely resistant ○ conditionally resistant — not resistant

The suitability for certain applications must be constantly checked by the users. The given chemical resistant is only valid for free storage and at room temperature, if not otherwise stated.

Conversion of American Wire Gauge, AWG in mm²

In some industrial areas, the American Wire Gauge is also used for cables.
The following table serves the conversion from AWG in mm².

AWG	Wire structure [mm]	Wire-Ø [mm]	Wire-q* [mm ²]
30	1x0.25	0.25	0.05
	7x0.10	0.36	0.06
28	1x0.32	0.32	0.08
	7x0.13	0.38	0.09
26	1x0.4	0.40	0.13
	7x0.16	0.48	0.14
24	19x0.10	0.51	0.15
	1x0.51	0.51	0.21
	17x0.20	0.61	0.22
22	19x0.13	0.64	0.25
	1x0.64	0.64	0.33
	7x0.25	0.76	0.34
20	19x0.16	0.81	0.38
	1x0.81	0.81	0.52
	7x0.32	0.97	0.56
18	19x0.20	1.02	0.60
	1x1.02	1.02	0.82
	19x0.25	1.27	0.93
16	19x0.29	1.44	1.25
14	19x0.36	1.80	1.93
12	19x0.46	2.29	3.16
10	37x0.40	3.10	4.65

*q=cross section

It should be taken into consideration that wires with the same
AWG-Number but different structures show slightly different cross sections.

Wire-structure data

VDE-standard 0295 only determines the maximum single-wire diameter and the related highest permissible electrical resistance for the respective wire cross-section. Other wire cross-sections and designs are upon request.

Wire Cross-section [mm ²]	Bare or tinned copper wires number of wires x wire diameter [mm] VDE 0295						
	single- wire	multiple- wire	fine - wire*	finest- wire*			
	class 1 Col. 2	class 2 Col. 1	class 5	class 6			
0.10			14x0.10		26x0.07	50x0.05	
0.14			18x0.10		36x0.07	72x0.05	
0.25			14x0.15		32x0.10	65x0.07	128x0.05
0.34		7x0.25	19x0.15		43x0.10	88x0.07	180x0.05
0.50	1x0.80	7x0.30	16x0.20	28x0.15	63x0.10	129x0.07	258x0.05
0.75	1x1.00	7x0.37	24x0.20	42x0.15	95x0.10	196x0.07	384x0.05
1.00	1x1.13	7x0.43	32x0.20	56x0.15	127x0.10	258x0.07	512x0.05
1.50	1x1.38	7x0.52	30x0.25	84x0.15	191x0.10	385x0.07	768x0.05
2.50	1x1.78	7x0.67	50x0.25	140x0.15	320x0.10	651x0.07	1281x0.05
4.00	1x2.26	7x0.85	56x0.30	224x0.15	512x0.10	1036x0.07	
6.00	1x2.77	7x1.05	84x0.30	192x0.20	765x0.10	1561x0.07	
10.00	1x3.57	7x1.35	80x0.40	320x0.20	1275x0.10		

* In case of fine- and finest-wire structures, the numbers of wires are preferred numbers.

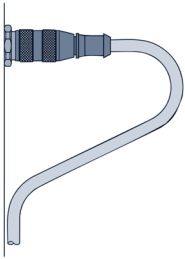
Current capacity

Excerpts from current-capacity table for wires of industrial machines according to DIN VDE 0113, EN 60204T1.

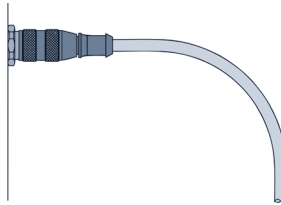
Rated-Ø Wire [mm ²]	Current capacity for wires of machines machines [A]			Rated currents of fuses according IEC269-2 und IEC 269-3 [A]			
	for normal applications			for mass prodction			
	in cable duct	in air	in cable duct	in air	gll	gl	aM
0.10	1.20	1.3	1.0	1.1	—	—	—
0.14 ¹	1.50	2.0	1.5	2.0	—	—	—
0.25 ¹	3.00	4.0	3.0	4.0	—	—	—
0.34 ¹	4.50	6.0	4.5	6.0	—	—	—
0.50	6.00	6.5	5.0	5.5	12	10	8
0.75	9.00	10.0	7.5	8.5	16	12	12
1.00	12.00	13.5	10.0	11.5	25	20	16
1.50	15.50	17.5	13.0	15.0	32	25	20
2.50	21.00	24.0	18.0	20.0	40	40	32
4.00	28.00	32.0	24.0	27.0	50	50	40
6.00	36.00	41.0	31.0	34.0	80	80	63
10.00	50.00	57.0	43.0	48.0	100	100	100

¹ These rated cross-sections are not covered by this standard. The capacity is selected in compliance with VDE 0891. This application of wires with cross-sections smaller than 0.3 mm² in industrial utilities according to VDE 0113 is only exceptionally permissible. For further information refer to the standard.

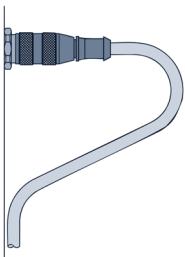
Wiring instructions



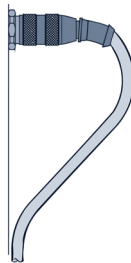
Applications including attached wiring



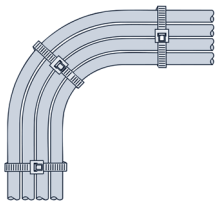
Applications including detached wiring



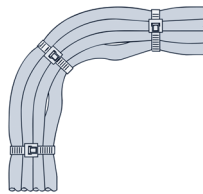
Bending radius of the cable right



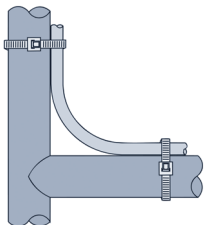
Bending radius of the cable wrong



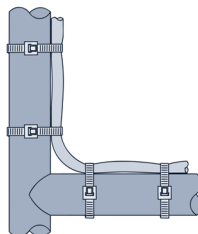
Bundling of several cables right



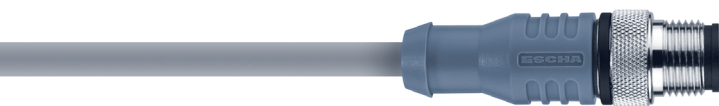
Bundling of several cables wrong



Fixing of cables right



Fixing of cables wrong



M 12x1 Round Connector

The M12x1 round connector family provides a wide range of robust and sophisticated components. The line includes a choice of pre-assembled and pre-moulded versions, flange connectors as well as field-wireable connectors, ranging from 3- to 12-pole versions.

12-pole version
for a large quantity
of signals



360° shielded
Optimal shielding even at
high mechanical stresses



Dust- and waterproof
according to IEC 60529



As standard, cable
terminals converted
with wire-end sleeves



Coupling straight	2.1 – 2.16

Coupling angled	2.17 – 2.29

Plug straight	2.30 – 2.43

Plug angled	2.44 – 2.52

Flange coupling metrical thread M16x1.5	2.53 – 2.77

Flange plug metrical thread M16x1.5	2.78 – 2.102

Flange coupling metrical thread M20x1.5	2.103 – 2.117

Flange plug metrical thread M20x1,5	2.118 – 2.132

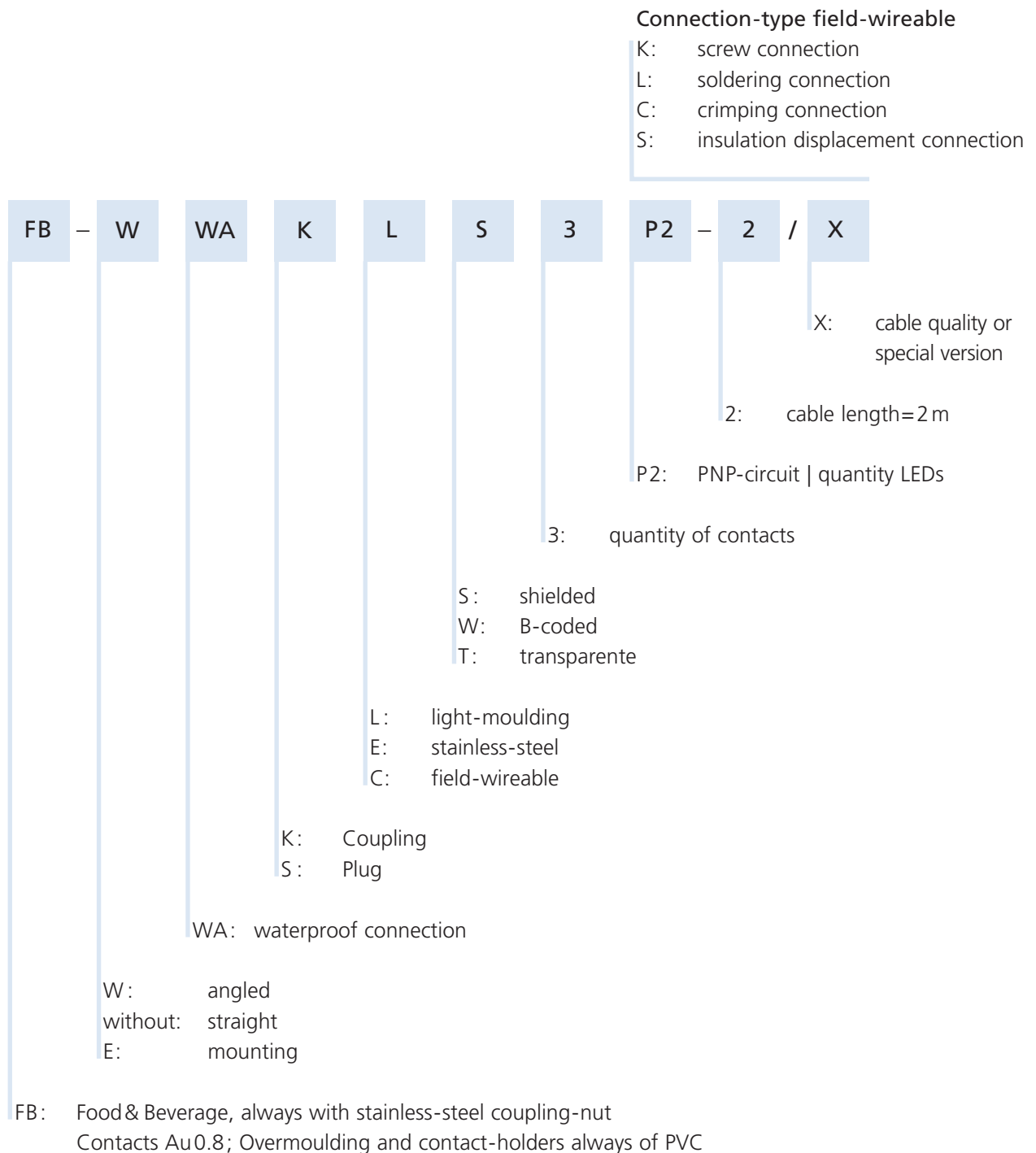
Flange coupling PG9-thread	2.133 – 2.143

Flange plug PG9-thread	2.144 – 2.153

Mounting plug	2.154 – 2.155

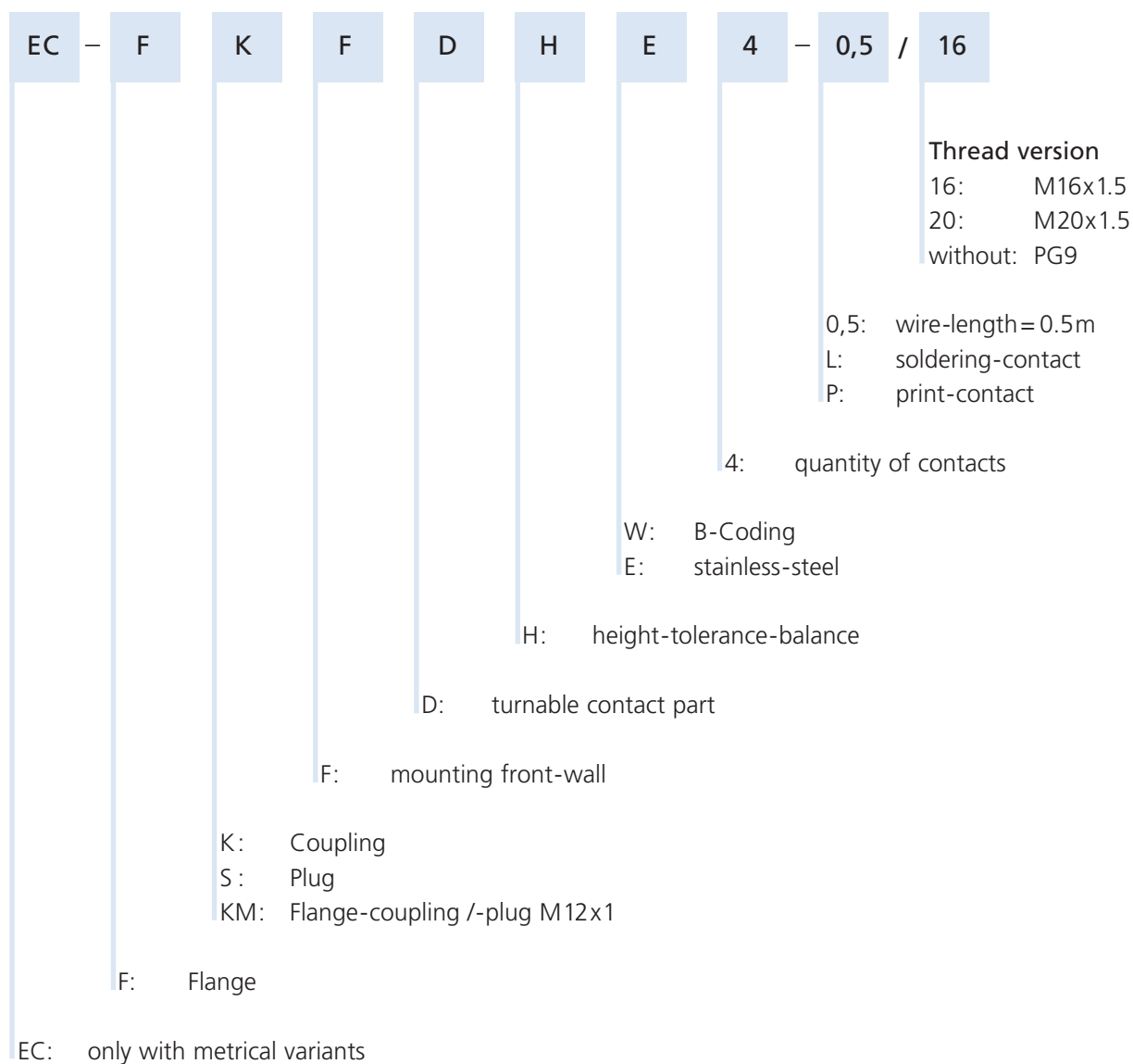
Adapter	2.156 – 2.159

Nomenclature M12x1-Round Connector



Non appropriate will be let out.

Nomenclature M12x1-Flange



Non appropriate will be let out.

M12 x 1 - Round Connector Straight Female Connector, with Anti-Vibration-Locking



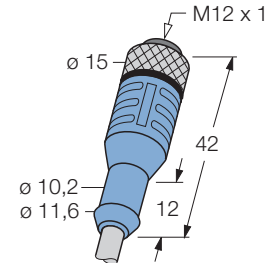
Connector female connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Polarity 3-pole
Ampacity 4 A
Rated voltage max. 250 V

Polarity 4-pole
Ampacity 4 A
Rated voltage max. 250 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability

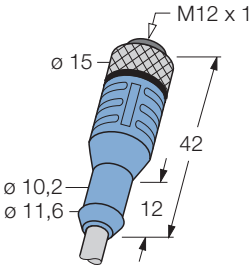


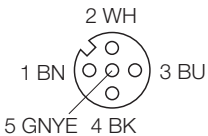
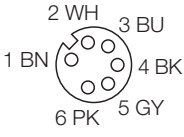
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WAK3-2/P00 8007031	WAK3-5/P00 8007036	WAK3-10/P00 8007041
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WAK3-2/XOR 8007033	WAK3-5/XOR 8007038	WAK3-10/XOR 8007043
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WAK3-2/S90 8007032	WAK3-5/S90 8007037	WAK3-10/S90 8007042
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WAK3-2/S74 8007035	WAK3-5/S74 8007040	WAK3-10/S74 8007045
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WAK3-2/S366 8019944	WAK3-5/S366 8019945	WAK3-10/S366 8019946
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WAK3-2/S398 8010200	WAK3-5/S398 8015041	WAK3-10/S398 8015042
4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WAK4-2/P00 8007046	WAK4-5/P00 8007053	WAK4-10/P00 8007060
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WAK4-2/XOR 8007048	WAK4-5/XOR 8007055	WAK4-10/XOR 8007062
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WAK4-2/S90 8007047	WAK4-5/S90 8007054	WAK4-10/S90 8007061
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 5.2 mm	WAK4-2/S74 8007052	WAK4-5/S74 8007059	WAK4-10/S74 8007066
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WAK4-2/S366 8019947	WAK4-5/S366 8019957	WAK4-10/S366 8019958
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WAK4-2/S398 8017523	WAK4-5/S398 8017313	WAK4-10/S398 8017314

Edition: 11.2008
Subject to change without notice

M12 x 1 - Round Connector
Straight Female Connector,
with Anti-Vibration-Locking

Connector	female connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	6-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

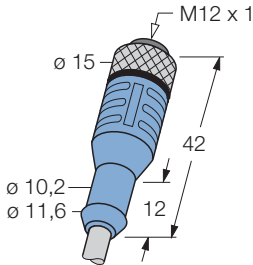


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
Wire-construction				
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	WAK5-2/P00 8007067	WAK5-5/P00 8007072	WAK5-10/P00 8007077
	PVC, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WAK5-2/XOR 8007069	WAK5-5/XOR 8007074	WAK5-10/XOR 8007079
	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WAK5-2/S90 8007068	WAK5-5/S90 8007073	WAK5-10/S90 8007078
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.3 mm	WAK5-2/S74 8007071	WAK5-5/S74 8007076	WAK5-10/S74 8007081
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WAK5-2/S366 8019959	WAK5-5/S366 8019960	WAK5-10/S366 8019961
	PUR, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.2 mm	WAK5-2/S398 8019963	WAK5-5/S398 8017928	WAK5-10/S398 8019684
6-pole 	PVC, GY 6 x0.25 mm² / Ø 5.8 mm	WAK6-2/P00/S2560 8007019	WAK6-5/P00/S2560 8007021	WAK6-10/P00/S2560 8007023
	PUR/PVC, GY 6 x0.25 mm² / Ø 5.8 mm	WAK6-2/S90/S2560 8007020	WAK6-5/S90/S2560 8007022	WAK6-10/S90/S2560 8007024

M12 x 1 - Round Connector
Straight Female Connector,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



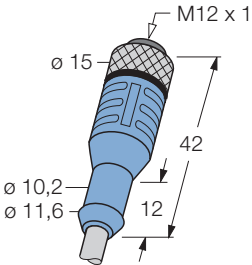
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
8-pole 	PVC, GY 8 x 0.25 mm ² / Ø 5.7 mm	WAK8-2/P00 8007025	WAK8-5/P00 8007027	WAK8-10/P00 8007029
	PUR/PVC, GY 8 x 0.25 mm ² / Ø 5.7 mm	WAK8-2/S90 8007026	WAK8-5/S90 8007028	WAK8-10/S90 8007030
	PUR, halogen-free, GY 8 x 0.25 mm ² / Ø 6.2 mm	WAK8-2/S366 8019962	WAK8-5/S366 8019964	WAK8-10/S366 8019965
8-pole 	PUR, halogen-free, BK 4 x 0.25 mm ² / 2 x 0.5 mm ² / Ø 5.8 mm	WAK8.005-2/S1117 8031290	WAK8.005-5/S1117 8031291	WAK8.005-10/S1117 8031292

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Straight Female Connector,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PVC, GY 12 x0.14 mm² / Ø 5.8 mm	WAK12-2/P00 8027588	WAK12-5/P00 8027589	WAK12-10/P00 8027590
	PUR, halogen-free, GY 12 x0.14 mm² / Ø 5.8 mm	WAK12-2/S366 8027591	WAK12-5/S366 8027592	WAK12-10/S366 8027593

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector

Straight Female Connector, with LED, with Anti-Vibration-Locking



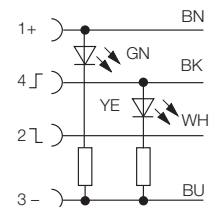
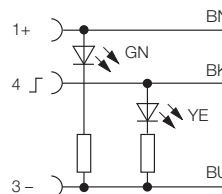
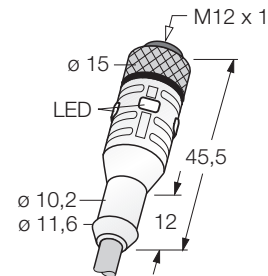
Connector female connector, M12 x 1, straight
 Grip plastic, TPU, transparent
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Polarity 3-pole
 Ampacity 4 A
 Rated voltage 10 ...30 V

Polarity 4-pole
 Ampacity 4 A
 Rated voltage 10 ...30 V

Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3
 Operating voltage display LED green
 Display switch state LED yellow
 Switching function pnp

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability

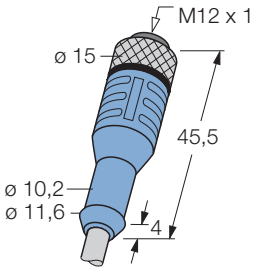


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WAK3P2-2/P00 8007235	WAK3P2-5/P00 8007240	WAK3P2-10/P00 8007245
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WAK3P2-2/XOR 8007237	WAK3P2-5/XOR 8007242	WAK3P2-10/XOR 8007247
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WAK3P2-2/S90 8007236	WAK3P2-5/S90 8007241	WAK3P2-10/S90 8007246
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WAK3P2-2/S74 8007239	WAK3P2-5/S74 8007244	WAK3P2-10/S74 8007249
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WAK3P2-2/S366 8019966	WAK3P2-5/S366 8019967	WAK3P2-10/S366 8019968
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WAK3P2-2/S398 8019969	WAK3P2-5/S398 8019970	WAK3P2-10/S398 8019971
4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WAK4P2-2/P00 8007250	WAK4P2-5/P00 8007257	WAK4P2-10/P00 8007264
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WAK4P2-2/XOR 8007252	WAK4P2-5/XOR 8007259	WAK4P2-10/XOR 8007266
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WAK4P2-2/S90 8007251	WAK4P2-5/S90 8007258	WAK4P2-10/S90 8007265
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 5.2 mm	WAK4P2-2/S74 8007256	WAK4P2-5/S74 8007263	WAK4P2-10/S74 8007270
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WAK4P2-2/S366 8019972	WAK4P2-5/S366 8019973	WAK4P2-10/S366 8019974
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WAK4P2-2/S398 8019975	WAK4P2-5/S398 8019976	WAK4P2-10/S398 8019977

M12 x 1 - Round Connector
Straight Female Connector, Shielded,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

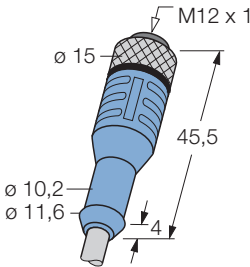


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, shielded, GY 3 x0.34 mm² / Ø 5.2 mm	WAKS3-2/P00 8006650	WAKS3-5/P00 8006652	WAKS3-10/P00 8006654
	PUR, shielded, halogen-free, GY 3 x0.34 mm² / Ø 5.2 mm	WAKS3-2/S366 8019161	WAKS3-5/S366 8019162	WAKS3-10/S366 8019163
4-pole 	PVC, shielded, GY 4 x0.34 mm² / Ø 5.2 mm	WAKS4-2/P00 8006656	WAKS4-5/P00 8006658	WAKS4-10/P00 8006660
	PUR, shielded, halogen-free, GY 4 x0.34 mm² / Ø 5.2 mm	WAKS4-2/S366 8019164	WAKS4-5/S366 8019165	WAKS4-10/S366 8019166

M12 x 1 - Round Connector
Straight Female Connector, Shielded,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



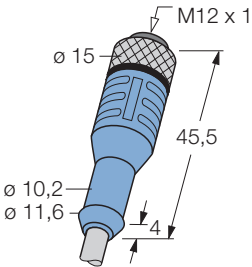
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
5-pole 	PVC, shielded, GY 5 x 0.25 mm ² / Ø 5.7 mm	WAKS4.5-2/P00 8019167	WAKS4.5-5/P00 8019168	WAKS4.5-10/P00 8019169
	PUR, shielded, halogen-free, GY 5 x 0.25 mm ² / Ø 5.7 mm	WAKS4.5-2/S366 8019170	WAKS4.5-5/S366 8019171	WAKS4.5-10/S366 8019172
8-pole 	PVC, shielded, GY 8 x 0.25 mm ² / Ø 6.2 mm	WAKS8-2/P00 8019173	WAKS8-5/P00 8019174	WAKS8-10/P00 8019175
	PUR, shielded, halogen-free, GY 8 x 0.25 mm ² / Ø 6.2 mm	WAKS8-2/S366 8019176	WAKS8-5/S366 8019177	WAKS8-10/S366 8019178

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Straight Female Connector, Shielded,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

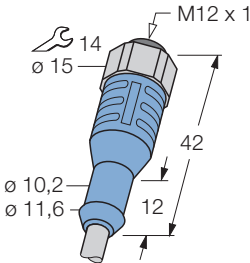


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PVC, shielded, GY 12 x0.14 mm² / Ø 6.2 mm	WAKS12-2/P00 8028493	WAKS12-5/P00 8028494	WAKS12-10/P00 8028495
	PUR, shielded, halogen-free, GY 12 x0.14 mm² / Ø 6.2 mm	WAKS12-2/S366 8028496	WAKS12-5/S366 8028497	WAKS12-10/S366 8028498

M12 x 1 - Round Connector
Straight Female Connector, Specially Useable for
Application in the Food & Beverage-Industry



Connector	female connector, M12 x 1, straight
Grip	plastic, PVC, blue
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PVC, grey
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +70 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability

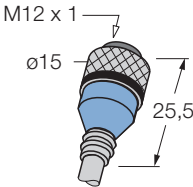


		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	FB-WAK4-5/P00 8024460	FB-WAK4-10/P00 8024603	FB-WAK4-15/P00 8024604
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	FB-WAK5-5/P00 8024472	FB-WAK5-10/P00 8024605	FB-WAK5-15/P00 8024606

M12 x 1 - Round Connector
Straight Female Connector,
Light-Version



Connector	female connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

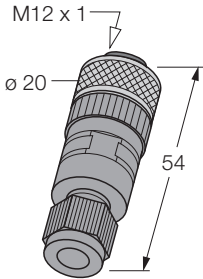


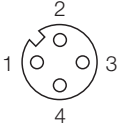
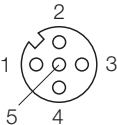
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x0.34 mm² / Ø 5.2 mm	WAKL3-2/P00 8009028	WAKL3-5/P00 8018915	WAKL3-10/P00 8016719
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WAKL4-2/P00 8019328	WAKL4-5/P00 8009034	WAKL4-10/P00 8016194

M12 x 1 - Round Connector
Straight Female Connector, Field-Wireable,
Screw-Clamp-Connection



Connector	M12 x 1, field-wireable female connector, straight
Grip	plastic, PA, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn,CuSnZn
Seal	plastic, FKM/FPM
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 8 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
external diameter of the cable	4 ...6 mm
Core cross-section/Clamping ability	max. 0.5 mm²
Connection mode	screw-clamping

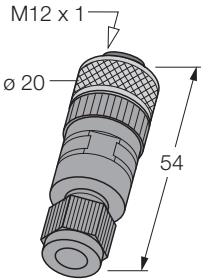


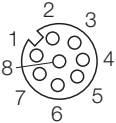
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		WAKC4K 8004811
5-pole 		WAKC5K 8004815

M12 x 1 - Round Connector
Straight Female Connector, Field-Wireable,
Screw-Clamp-Connection



Connector	M12 x 1, field-wireable female connector, straight
Grip	plastic, PA, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	6 ...8 mm
Core cross-section/Clamping ability	max. 0.5 mm²
Connection mode	screw-clamping

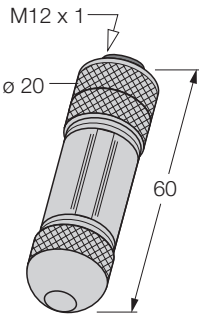


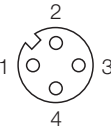
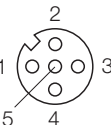
		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
8-pole 		WAKC8K 8021862

M12 x 1 - Round Connector
Straight Female Connector, Field-Wireable,
Shielded, Screw-Clamp-Connection



Connector	M12 x 1, field-wireable female connector, shielded, straight
Grip	metal, GD-ZnAl, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuSn,CuSnZn, copper/tin alloy
Seal	plastic, FKM/FPM
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 120 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +90 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...9 mm
Core cross-section/Clamping ability	max. 0.75 mm²
Connection mode	screw-clamping



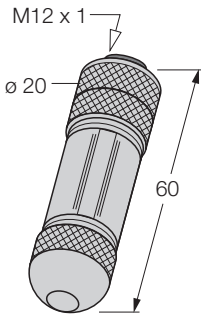
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		WAKCS4K 8035253
5-pole 		WAKCS5K 8035254

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M12 x 1 - Round Connector
Straight Female Connector, Field-Wireable,
Shielded, Screw-Clamp-Connection



Connector	M12 x 1, field-wireable female connector, shielded, straight
Grip	metal, GD-ZnAl, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn,CuSnZn, copper- / tin alloy
Seal	plastic, FKM/FPM
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +90 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...9 mm
Core cross-section/Clamping ability	max. 0.75 mm ²
Connection mode	screw-clamping



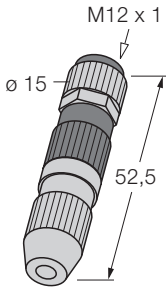
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole 		WAKCS8K 8035193

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Straight Female Connector, Field-Wireable,
Cut-Clamp-Connection



Connector	M12 x 1, field-wireable female connector, straight
Grip	plastic, PBT, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Ideal core insulation	PE or PVC
Polarity	4-pole
Ampacity	3 A
Rated voltage	max. 32 V
Insulation resistance	$\geq 10^9 \Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...5.2 mm
Core cross-section/Clamping ability	0.25...0.5 mm ²
Connection mode	cut-clamping



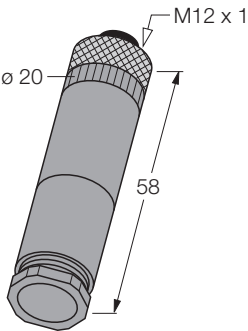
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		WAKC4S 8019718

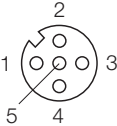
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Connector/Y-Splitter, Field-Wireable,
Screw-Clamp-Connection



Connector	field-wireable Y-Splitter, M12 x 1, straight
Grip	plastic, PA, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn,CuSnZn
Seal	plastic, FKM/FPM
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 8 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	3.5 ... 5 mm
Core cross-section/Clamping ability	max. 0.5 mm ²
Connection mode	screw-clamping



		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
5-pole 		FKMC5K 8017230

M12 x 1 - Round Connector Angled Female Connector, with Anti-Vibration-Locking



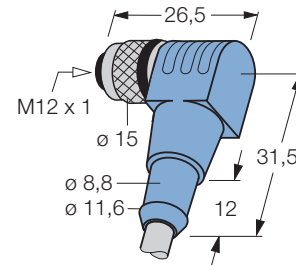
Connector female connector, M12 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Polarity 3-pole
Ampacity 4 A
Rated voltage max. 250 V

Polarity 4-pole
Ampacity 4 A
Rated voltage max. 250 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



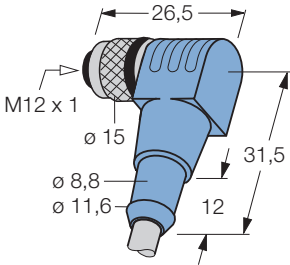
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-2/P00 8007133	WWAK3-5/P00 8007138	WWAK3-10/P00 8007143
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-2/XOR 8007135	WWAK3-5/XOR 8007140	WWAK3-10/XOR 8007145
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-2/S90 8007134	WWAK3-5/S90 8007139	WWAK3-10/S90 8007144
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WWAK3-2/S74 8007137	WWAK3-5/S74 8007142	WWAK3-10/S74 8007147
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WWAK3-2/S366 8019998	WWAK3-5/S366 8019999	WWAK3-10/S366 8020000
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WWAK3-2/S398 8014314	WWAK3-5/S398 8019202	WWAK3-10/S398 8016481
4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4-2/P00 8007148	WWAK4-5/P00 8007155	WWAK4-10/P00 8007162
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4-2/XOR 8007150	WWAK4-5/XOR 8007157	WWAK4-10/XOR 8007164
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4-2/S90 8007149	WWAK4-5/S90 8007156	WWAK4-10/S90 8007163
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4-2/S74 8007154	WWAK4-5/S74 8007161	WWAK4-10/S74 8007168
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WWAK4-2/S366 8020001	WWAK4-5/S366 8020002	WWAK4-10/S366 8020003
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WWAK4-2/S398 8019398	WWAK4-5/S398 8019400	WWAK4-10/S398 8018042

Edition: 11.2008
Subject to change without notice

M12 x 1 - Round Connector
Angled Female Connector,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	6-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

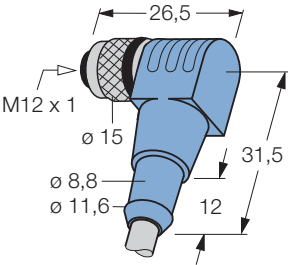


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
Wire-construction				
4-pole + ground 	PVC, GY 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.5 mm	WWAK5-2/P00 8007169	WWAK5-5/P00 8007174	WWAK5-10/P00 8007179
	PVC, irradiated, OG 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.7 mm	WWAK5-2/XOR 8007171	WWAK5-5/XOR 8007176	WWAK5-10/XOR 8007181
	PUR/PVC, GY 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.7 mm	WWAK5-2/S90 8007170	WWAK5-5/S90 8007175	WWAK5-10/S90 8007180
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.3 mm	WWAK5-2/S74 8007173	WWAK5-5/S74 8007178	WWAK5-10/S74 8007183
	PUR, halogen-free, GY 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.7 mm	WWAK5-2/S366 8020004	WWAK5-5/S366 8020005	WWAK5-10/S366 8020006
	PUR, irradiated, OG 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.2 mm	WWAK5-2/S398 8017927	WWAK5-5/S398 8020007	WWAK5-10/S398 8020008
6-pole 	PVC, GY 6 x0.25 mm ² / Ø 5.8 mm	WWAK6-2/P00/S2560 8012727	WWAK6-5/P00/S2560 8012728	WWAK6-10/P00/S2560 8012729
	PUR/PVC, GY 6 x0.25 mm ² / Ø 5.8 mm	WWAK6-2/S90/S2560 8012730	WWAK6-5/S90/S2560 8012731	WWAK6-10/S90/S2560 8012732

M12 x 1 - Round Connector
Angled Female Connector,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



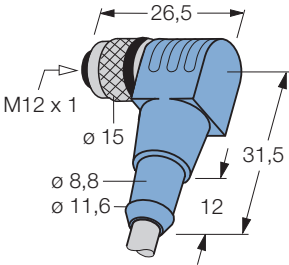
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
8-pole 	PVC, GY 8 x 0.25 mm ² / Ø 5.7 mm	WWAK8-2/P00 8012715	WWAK8-5/P00 8012716	WWAK8-10/P00 8012717
	PUR/PVC, GY 8 x 0.25 mm ² / Ø 5.7 mm	WWAK8-2/S90 8012718	WWAK8-5/S90 8012719	WWAK8-10/S90 8012720
	PUR, halogen-free, GY 8 x 0.25 mm ² / Ø 6.2 mm	WWAK8-2/S366 8020009	WWAK8-5/S366 8020010	WWAK8-10/S366 8020011
8-pole 	PUR, halogen-free, BK 4 x 0.25 mm ² / 2 x 0.5 mm ² / Ø 5.8 mm	WWAK8.005-2/S1117 8031293	WWAK8.005-5/S1117 8031294	WWAK8.005-10/S1117 8031295

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Angled Female Connector,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PVC, GY 12 x0.14 mm² / Ø 5.8 mm	WWAK12-2/P00 8027600	WWAK12-5/P00 8027601	WWAK12-10/P00 8027602
	PUR, halogen-free, GY 12 x0.14 mm² / Ø 5.8 mm	WWAK12-2/S366 8027603	WWAK12-5/S366 8027604	WWAK12-10/S366 8027605

M12 x 1 - Round Connector

Female Connector Angled, with LED, with Anti-Vibration-Locking

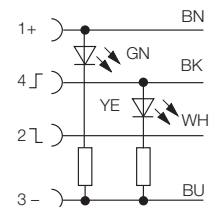
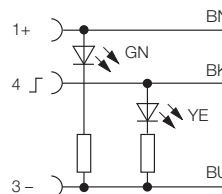
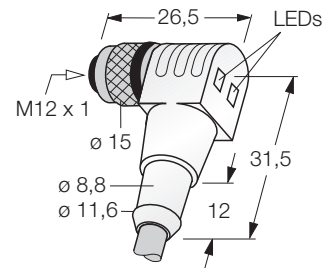
Connector female connector, M12 x 1, angled
 Grip plastic, TPU, transparent
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Polarity 3-pole
 Ampacity 4 A
 Rated voltage 10 ...30 V

Polarity 4-pole
 Ampacity 4 A
 Rated voltage 10 ...30 V

Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3
 Operating voltage display LED green
 Display switch state LED yellow
 Switching function pnp

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-2/P00 8010213	WWAK3P2-5/P00 8009238	WWAK3P2-10/P00 8009242
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-2/XOR 8010215	WWAK3P2-5/XOR 8009240	WWAK3P2-10/XOR 8009244
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-2/S90 8010214	WWAK3P2-5/S90 8009239	WWAK3P2-10/S90 8009243
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WWAK3P2-2/S74 8010218	WWAK3P2-5/S74 8009241	WWAK3P2-10/S74 8009245
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WWAK3P2-2/S366 8020012	WWAK3P2-5/S366 8020013	WWAK3P2-10/S366 8020014
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WWAK3P2-2/S398 8010217	WWAK3P2-5/S398 8010222	WWAK3P2-10/S398 8010227
4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P2-2/P00 8009889	WWAK4P2-5/P00 8009247	WWAK4P2-10/P00 8009250
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P2-2/XOR 8009890	WWAK4P2-5/XOR 8009249	WWAK4P2-10/XOR 8009252
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P2-2/S90 8009246	WWAK4P2-5/S90 8009248	WWAK4P2-10/S90 8009251
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P2-2/S74 8009894	WWAK4P2-5/S74 8009900	WWAK4P2-10/S74 8009904
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WWAK4P2-2/S366 8020015	WWAK4P2-5/S366 8020016	WWAK4P2-10/S366 8020017
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WWAK4P2-2/S398 8015265	WWAK4P2-5/S398 8019474	WWAK4P2-10/S398 8020018

M12 x 1 - Round Connector
Angled Female Connector, with LED,
with Anti-Vibration-Locking



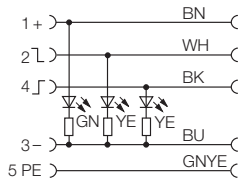
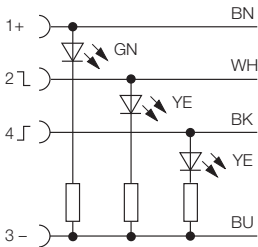
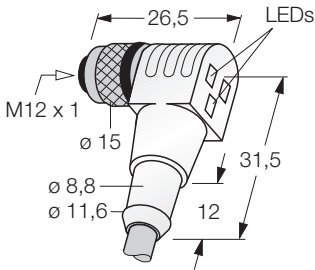
Connector female connector, M12 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Polarity 4-pole
Ampacity 4 A
Rated voltage 10 ...30 V

Polarity 4-pole + ground
Ampacity 4 A
Rated voltage 10 ...30 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow/yellow
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4P3-2/P00 8009909	WWAK4P3-5/P00 8009916	WWAK4P3-10/P00 8009922
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4P3-2/XOR 8009911	WWAK4P3-5/XOR 8009253	WWAK4P3-10/XOR 8009924
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4P3-2/S90 8009910	WWAK4P3-5/S90 8009917	WWAK4P3-10/S90 8009923
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4P3-2/S74 8009915	WWAK4P3-5/S74 8009921	WWAK4P3-10/S74 8009928
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WWAK4P3-2/S366 8020019	WWAK4P3-5/S366 8020020	WWAK4P3-10/S366 8020021
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WWAK4P3-2/S398 8020022	WWAK4P3-5/S398 8017891	WWAK4P3-10/S398 8020023
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	WWAK5P3-2/P00 8013016	WWAK5P3-5/P00 8013017	WWAK5P3-10/P00 8013018
	PVC, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-2/XOR 8013022	WWAK5P3-5/XOR 8013023	WWAK5P3-10/XOR 8013024
	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-2/S90 8013019	WWAK5P3-5/S90 8013020	WWAK5P3-10/S90 8013021
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.3 mm	WWAK5P3-2/S74 8013025	WWAK5P3-5/S74 8013026	WWAK5P3-10/S74 8013027
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-2/S366/S367 8021939	WWAK5P3-5/S366/S367 8021940	WWAK5P3-10/S366/S367 8021941
	PUR, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.2 mm	WWAK5P3-2/S398 8021921	WWAK5P3-5/S398 8021922	WWAK5P3-10/S398 8021923

M12 x 1 - Round Connector Angled Female Connector, with LED, with Anti-Vibration-Locking



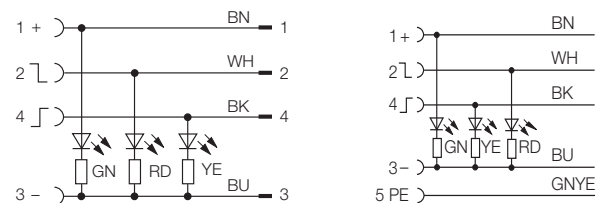
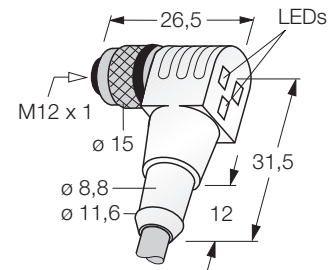
Connector female connector, M12 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Polarity 4-pole
Ampacity 4 A
Rated voltage 10 ...30 V

Polarity 4-pole + ground
Ampacity 4 A
Rated voltage 10 ...30 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow/red
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability

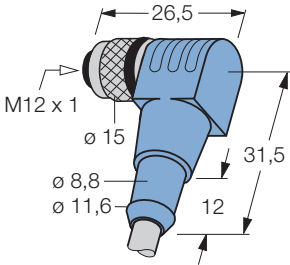


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-2/P00 8009930	WWAK4P3.1-5/P00 8009938	WWAK4P3.1-10/P00 8009945
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-2/XOR 8009932	WWAK4P3.1-5/XOR 8010240	WWAK4P3.1-10/XOR 8009947
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-2/S90 8010239	WWAK4P3.1-5/S90 8010077	WWAK4P3.1-10/S90 8009946
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-2/S74 8009936	WWAK4P3.1-5/S74 8009944	WWAK4P3.1-10/S74 8009951
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WWAK4P3.1-2/S366 8020024	WWAK4P3.1-5/S366 8020025	WWAK4P3.1-10/S366 8020026
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WWAK4P3.1-2/S398 8013536	WWAK4P3.1-5/S398 8017401	WWAK4P3.1-10/S398 8017978
4-pole + ground 	PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.5 mm	WWAK5P3.1-2/P00 8009953	WWAK5P3.1-5/P00 8009958	WWAK5P3.1-10/P00 8009963
	PVC, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5P3.1-2/XOR 8009955	WWAK5P3.1-5/XOR 8009960	WWAK5P3.1-10/XOR 8009254
	PUR/PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5P3.1-2/S90 8009954	WWAK5P3.1-5/S90 8009959	WWAK5P3.1-10/S90 8009964
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.3 mm	WWAK5P3.1-2/S74 8009957	WWAK5P3.1-5/S74 8009962	WWAK5P3.1-10/S74 8009966
	PUR, halogen-free, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5P3.1-2/S366 8020027	WWAK5P3.1-5/S366 8020028	WWAK5P3.1-10/S366 8020029
	PUR, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	WWAK5P3.1-2/S398 8020030	WWAK5P3.1-5/S398 8020031	WWAK5P3.1-10/S398 8020032

M12 x 1 - Round Connector
Angled Female Connector, Shielded,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

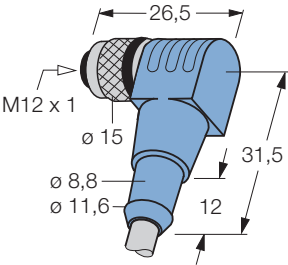


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, shielded, GY 3 x0.34 mm² / Ø 5.2 mm	WWAKS3-2/P00 8019073	WWAKS3-5/P00 8019074	WWAKS3-10/P00 8019075
	PUR, shielded, halogen-free, GY 3 x0.34 mm² / Ø 5.2 mm	WWAKS3-2/S366 8019076	WWAKS3-5/S366 8019077	WWAKS3-10/S366 8019078
4-pole 	PVC, shielded, GY 4 x0.34 mm² / Ø 5.2 mm	WWAKS4-2/P00 8019079	WWAKS4-5/P00 8019080	WWAKS4-10/P00 8019081
	PUR, shielded, halogen-free, GY 4 x0.34 mm² / Ø 5.2 mm	WWAKS4-2/S366 8019082	WWAKS4-5/S366 8019083	WWAKS4-10/S366 8019084

M12 x 1 - Round Connector
Angled Female Connector, Shielded,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



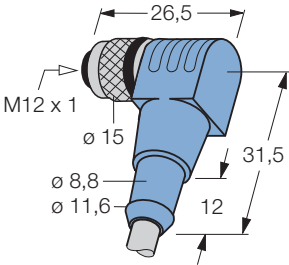
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
5-pole 	PVC, shielded, GY 5 x 0.25 mm² / Ø 5.7 mm	WWAKS4.5-2/P00 8019137	WWAKS4.5-5/P00 8019138	WWAKS4.5-10/P00 8019139
	PUR, shielded, halogen-free, GY 5 x 0.25 mm² / Ø 5.7 mm	WWAKS4.5-2/S366 8019085	WWAKS4.5-5/S366 8019086	WWAKS4.5-10/S366 8019087
8-pole 	PVC, shielded, GY 8 x 0.25 mm² / Ø 6.2 mm	WWAKS8-2/P00 8019059	WWAKS8-5/P00 8022014	WWAKS8-10/P00 8022015
	PUR, shielded, halogen-free, GY 8 x 0.25 mm² / Ø 6.2 mm	WWAKS8-2/S366 8019060	WWAKS8-5/S366 8022016	WWAKS8-10/S366 8022017

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Angled Female Connector, Shielded,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



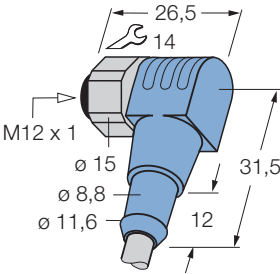
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole	PVC, shielded, GY 12 x0.14 mm² / Ø 6.2 mm	WWAKS12-2/P00 8028611	WWAKS12-5/P00 8028612	WWAKS12-10/P00 8028613
	PUR, shielded, halogen-free, GY 12 x0.14 mm² / Ø 6.2 mm	WWAKS12-2/S366 8028614	WWAKS12-5/S366 8028615	WWAKS12-10/S366 8028616

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Angled Female Connector, Specially Useable
for Application in the Food & Beverage-Industry



Connector	female connector, M12 x 1, angled
Grip	plastic, PVC
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PVC, grey
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Ambient temperature Connector	-25 ... +70 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability

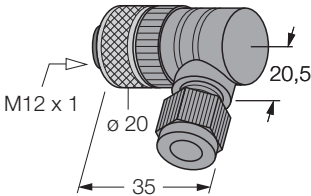


		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	FB-WWAK4-5/P00 8024461	FB-WWAK4-10/P00 8022816	FB-WWAK4-15/P00 8024607
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	FB-WWAK5-5/P00 8024473	FB-WWAK5-10/P00 8024608	FB-WWAK5-15/P00 8024609

M12 x 1 - Round Connector
Angled Female Connector, Field-Wireable,
Screw-Clamp-Connection



Connector	M12 x 1, field-wireable female connector, angled
Grip	plastic, PBT, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn,CuSnZn
Seal	plastic, FKM/FPM
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 8 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...6 mm
Core cross-section/Clamping ability	max. 0.5 mm²
Connection mode	screw-clamping

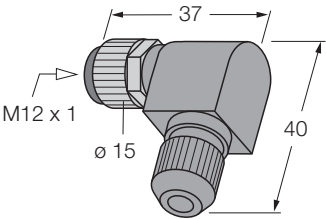


		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		WWAKC4K 8004808
5-pole 		WWAKC5K 8004809

M12 x 1 - Round Connector
Angled Female Connector, Field-Wireable,
Cut-Clamp-Connection



Connector	M12 x 1, field-wireable female connector, angled
Grip	plastic, PBT, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Ideal core insulation	PE or PVC
Polarity	4-pole
Ampacity	3 A
Rated voltage	max. 32 V
Insulation resistance	$\geq 10^9 \Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...5.2 mm
Core cross-section/Clamping ability	0.25...0.5 mm ²
Connection mode	cut-clamping



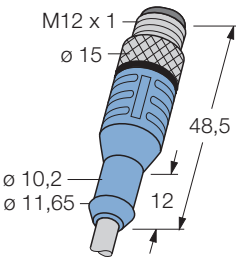
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		WWAKC4S 8019719

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Straight Male Connector,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.34 mm² / Ø 5.2 mm	WAS3-2/P00 8007082	WAS3-5/P00 8007087	WAS3-10/P00 8007092
	PVC, irradiated, OG 3 x 0.34 mm² / Ø 5.2 mm	WAS3-2/XOR 8007084	WAS3-5/XOR 8007089	WAS3-10/XOR 8007094
	PUR/PVC, GY 3 x 0.34 mm² / Ø 5.2 mm	WAS3-2/S90 8007083	WAS3-5/S90 8007088	WAS3-10/S90 8007093
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm² / Ø 4.6 mm	WAS3-2/S74 8007086	WAS3-5/S74 8007091	WAS3-10/S74 8007096
	PUR, halogen-free, GY 3 x 0.34 mm² / Ø 4.5 mm	WAS3-2/S366 8019980	WAS3-5/S366 8019981	WAS3-10/S366 8019982
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	WAS3-2/S398 8019983	WAS3-5/S398 8019985	WAS3-10/S398 8019984
4-pole 	PVC, GY 4 x 0.34 mm² / Ø 5.2 mm	WAS4-2/P00 8007097	WAS4-5/P00 8007104	WAS4-10/P00 8007111
	PVC, irradiated, OG 4 x 0.34 mm² / Ø 5.2 mm	WAS4-2/XOR 8007099	WAS4-5/XOR 8007106	WAS4-10/XOR 8007113
	PUR/PVC, GY 4 x 0.34 mm² / Ø 5.2 mm	WAS4-2/S90 8007098	WAS4-5/S90 8007105	WAS4-10/S90 8007112
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm² / Ø 5.2 mm	WAS4-2/S74 8007103	WAS4-5/S74 8007110	WAS4-10/S74 8007117
	PUR, halogen-free, GY 4 x 0.34 mm² / Ø 4.7 mm	WAS4-2/S366 8019986	WAS4-5/S366 8019987	WAS4-10/S366 8019988
	PUR, irradiated, OG 4 x 0.34 mm² / Ø 4.8 mm	WAS4-2/S398 8019989	WAS4-5/S398 8019703	WAS4-10/S398 8019704

M12 x 1 - Round Connector

Straight Male Connector, with Anti-Vibration-Locking



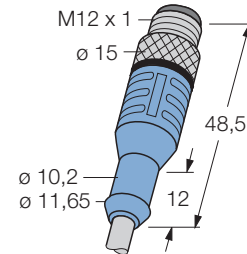
Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Polarity 4-pole + ground
 Ampacity 4 A
 Rated voltage max. 60 V

Polarity 6-pole
 Rated voltage max. 30 V

Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability

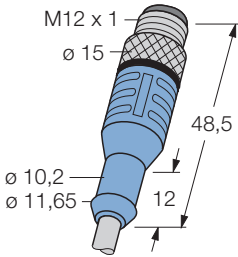


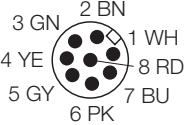
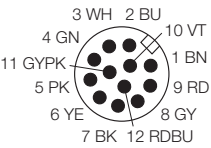
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
4-pole + ground 	PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.5 mm	WAS5-2/P00 8007118	WAS5-5/P00 8007123	WAS5-10/P00 8007128
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WAS5-2/XOR 8007120	WAS5-5/XOR 8007125	WAS5-10/XOR 8007130
	PUR/PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WAS5-2/S90 8007119	WAS5-5/S90 8007124	WAS5-10/S90 8007129
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.3 mm	WAS5-2/S74 8007122	WAS5-5/S74 8007127	WAS5-10/S74 8007132
	PUR, halogen-free, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WAS5-2/S366 8019990	WAS5-5/S366 8019991	WAS5-10/S366 8019992
	PUR, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	WAS5-2/S398 8019993	WAS5-5/S398 8019994	WAS5-10/S398 8019185
6-pole 	PVC, GY 6 x 0.25 mm ² / Ø 5.8 mm	WAS6-2/P00/S2560 8007007	WAS6-5/P00/S2560 8007009	WAS6-10/P00/S2560 8007011
	PUR/PVC, GY 6 x 0.25 mm ² / Ø 5.8 mm	WAS6-2/S90/S2560 8007008	WAS6-5/S90/S2560 8007010	WAS6-10/S90/S2560 8007012

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Straight Male Connector,
with Anti-Vibration-Locking

Connector	male connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
8-pole 	PVC, GY 8 x0.25 mm² / Ø 5.7 mm	WAS8-2/P00 8007013	WAS8-5/P00 8007015	WAS8-10/P00 8007017
	PUR/PVC, GY 8 x0.25 mm² / Ø 5.7 mm	WAS8-2/S90 8007014	WAS8-5/S90 8007016	WAS8-10/S90 8007018
	PUR, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WAS8-2/S366 8019995	WAS8-5/S366 8019996	WAS8-10/S366 8019997
12-pole 	PVC, GY 12 x0.14 mm² / Ø 5.8 mm	WAS12-2/P00 8027594	WAS12-5/P00 8027595	WAS12-10/P00 8027596
	PUR, halogen-free, GY 12 x0.14 mm² / Ø 5.8 mm	WAS12-2/S366 8027597	WAS12-5-5/S366 8027598	WAS12-10/S366 8027599

M12 x 1 - Round Connector

Straight Male Connector, Shielded, with Anti-Vibration-Locking



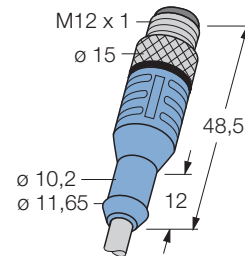
Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Polarity 3-pole
 Ampacity 4 A
 Rated voltage max. 250 V

Polarity 4-pole
 Ampacity 4 A
 Rated voltage max. 250 V

Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



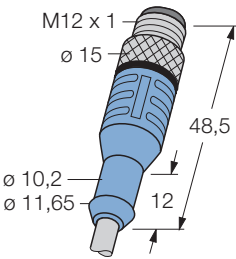
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, shielded, GY 3 x 0.34 mm ² / Ø 5.2 mm	WASS3-2/P00 8006635	WASS3-5/P00 8006637	WASS3-10/P00 8006639
	PUR, shielded, halogen-free, GY 3 x 0.34 mm ² / Ø 5.2 mm	WASS3-2/S366 8019143	WASS3-5/S366 8019144	WASS3-10/S366 8019145
4-pole 	PVC, shielded, GY 4 x 0.34 mm ² / Ø 5.2 mm	WASS4-2/P00 8006641	WASS4-5/P00 8006643	WASS4-10/P00 8006645
	PUR, shielded, halogen-free, GY 4 x 0.34 mm ² / Ø 5.2 mm	WASS4-2/S366 8019146	WASS4-5/S366 8019147	WASS4-10/S366 8019148

Edition: 11.2008
Subject to change without notice

M12 x 1 - Round Connector
Straight Male Connector, Shielded,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

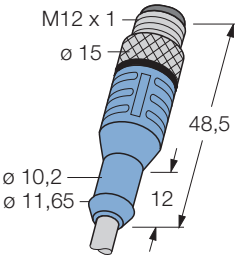


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
5-pole 	PVC, shielded, GY 5 x0.25 mm² / Ø 5.7 mm	WASS4.5-2/P00 8019149	WASS4.5-5/P00 8019150	WASS4.5-10/P00 8019151
	PUR, shielded, halogen-free, GY 5 x0.25 mm² / Ø 5.7 mm	WASS4.5-2/S366 8019152	WASS4.5-5/S366 8019153	WASS4.5-10/S366 8019154
8-pole 	PVC, shielded, GY 8 x0.25 mm² / Ø 6.2 mm	WASS8-2/P00 8019155	WASS8-5/P00 8019156	WASS8-10/P00 8019157
	PUR, shielded, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WASS8-2/S366 8019158	WASS8-5/S366 8019159	WASS8-10/S366 8019160

M12 x 1 - Round Connector
Straight Male Connector, Shielded,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

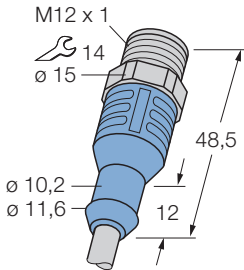


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole	PVC, shielded, GY	WASS12-2/P00	WASS12-5/P00	WASS12-10/P00
	12 x0.14 mm² / Ø 6.2 mm	8028457	8028489	8028490
	PUR, shielded, halogen-free, GY	WASS12-2/S366	WASS12-5/S366	WASS12-10/S366
	12 x0.14 mm² / Ø 6.2 mm	8028458	8028491	8028492

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Straight Male Connector, Specially Useable
for Application in the Food & Beverage-Industry

Connector	male connector, M12 x 1, straight
Grip	plastic, PVC, blue
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PVC, grey
Contacts	metal, CuZn, gold-plated
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +70 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability

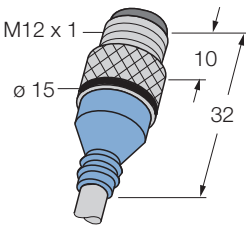


		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	FB-WAS4-5/P00 8024463	FB-WAS4-10/P00 8024610	FB-WAS4-15/P00 8024611
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	FB-WAS5-5/P00 8024469	FB-WAS5-10/P00 8024612	FB-WAS5-15/P00 8024613

M12 x 1 - Round Connector
Straight Male Connector,
Light-Version



Connector	male connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



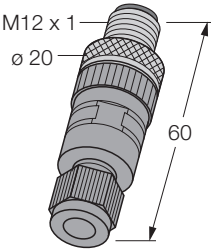
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WASL3-2/P00 8025635	WASL3-5/P00 8025636	WASL3-10/P00 8025637
4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WASL4-2/P00 8025638	WASL4-5/P00 8025639	WASL4-10/P00 8025640

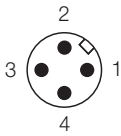
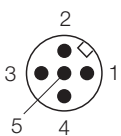
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Straight Male Connector, Field-Wireable,
Screw-Clamp-Connection



Connector	M12 x 1, field-wireable male connector, straight
Grip	plastic, PA, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn,CuSnZn
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 8 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...6 mm
Core cross-section/Clamping ability	max. 0.5 mm ²
Connection mode	screw-clamping

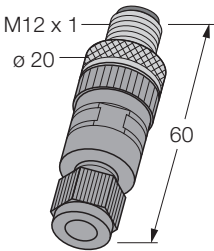


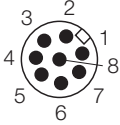
		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole 		WASC4K 8004804
5-pole 		WASC5K 8004805

M12 x 1 - Round Connector
Straight Male Connector, Field-Wireable,
Screw-Clamp-Connection



Connector	M12 x 1, field-wireable male connector, straight
Grip	plastic, PA, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn, gold-plated
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	6 ... 8 mm
Core cross-section/Clamping ability	max. 0.5 mm²
Connection mode	screw-clamping



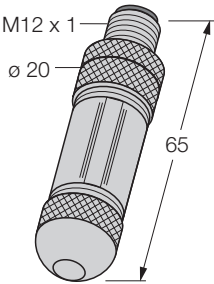
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole 		WASC8K 8021863

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Straight Male Connector, Field Wireable,
Shielded, Screw-Clamp-Connection



Connector	M12 x 1, field-wireable male connector, shielded, straight
Grip	metal, GD-ZnAl, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn,CuSnZn, copper-/tin alloy
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 120 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +90 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...9 mm
Core cross-section/Clamping ability	max. 0.75 mm ²
Connection mode	screw-clamping



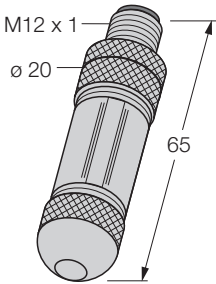
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		WASCS4K 8035251
5-pole 		WASCS5K 8035252

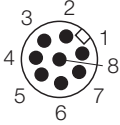
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Straight Male Connector, Field-Wireable,
Shielded, Screw-Clamp-Connection



Connector	M12 x 1, field-wireable male connector, shielded, straight
Grip	metal, GD-ZnAl, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn,CuSnZn, copper- / tin alloy
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +90 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...9 mm
Core cross-section/Clamping ability	max. 0.75 mm²
Connection mode	screw-clamping



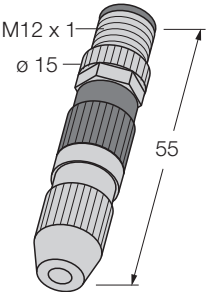
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole 		WASCS8K 8035192

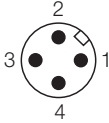
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Straight Male Connector, Field-Wireable,
Cut-Clamp-Connection



Connector	M12 x 1, field-wireable male connector, straight
Grip	plastic, PBT, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Ideal core insulation	PE or PVC
Polarity	4-pole
Ampacity	3 A
Rated voltage	max. 32 V
Insulation resistance	$\geq 10^9 \Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...5.2 mm
Core cross-section/Clamping ability	0.25...0.5 mm ²
Connection mode	cut-clamping

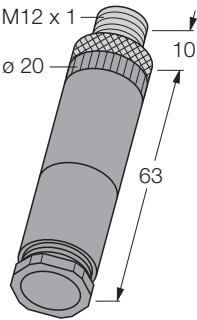


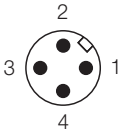
		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole 		WASC4S 8019716

M12 x 1 - Round Connector
Male Connector/Y-Splitter, Field-Wireable,
Screw-Clamp-Connection



Connector	field-wireable Y junction, M12 x 1, straight
Grip	plastic, PA, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn,CuSnZn
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 8 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...5 mm
Core cross-section/Clamping ability	max. 0.5 mm²
Connection mode	screw-clamping



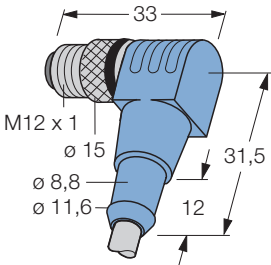
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		FSMC4K 8017231

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Angled Male Connector,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x0.34 mm² / Ø 5.2 mm	WWAS3-2/P00 8007184	WWAS3-5/P00 8007189	WWAS3-10/P00 8007194
	PVC, irradiated, OG 3 x0.34 mm² / Ø 5.2 mm	WWAS3-2/XOR 8007186	WWAS3-5/XOR 8007191	WWAS3-10/XOR 8007196
	PUR/PVC, GY 3 x0.34 mm² / Ø 5.2 mm	WWAS3-2/S90 8007185	WWAS3-5/S90 8007190	WWAS3-10/S90 8007195
	PUR, halogen-free, highly flexible, OG 3 x0.34 mm² / Ø 4.6 mm	WWAS3-2/S74 8007188	WWAS3-5/S74 8007193	WWAS3-10/S74 8007198
	PUR, halogen-free, GY 3 x0.34 mm² / Ø 4.5 mm	WWAS3-2/S366 8020033	WWAS3-5/S366 8020034	WWAS3-10/S366 8020035
	PUR, irradiated, OG 3 x0.34 mm² / Ø 4.4 mm	WWAS3-2/S398 8020036	WWAS3-5/S398 8020037	WWAS3-10/S398 8020038
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAS4-2/P00 8007199	WWAS4-5/P00 8007206	WWAS4-10/P00 8007213
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WWAS4-2/XOR 8007201	WWAS4-5/XOR 8007208	WWAS4-10/XOR 8007215
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAS4-2/S90 8007200	WWAS4-5/S90 8007207	WWAS4-10/S90 8007214
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WWAS4-2/S74 8007205	WWAS4-5/S74 8007212	WWAS4-10/S74 8007219
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WWAS4-2/S366 8020039	WWAS4-5/S366 8020040	WWAS4-10/S366 8020041
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WWAS4-2/S398 8020042	WWAS4-5/S398 8020044	WWAS4-10/S398 8020046

M12 x 1 - Round Connector Angled Male Connector, with Anti-Vibration-Locking

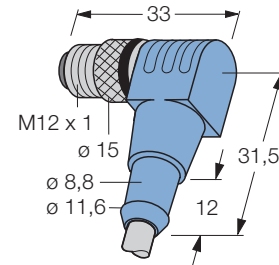
Connector male connector, M12 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Polarity 4-pole + ground
Ampacity 4 A
Rated voltage max. 60 V

Polarity 6-pole
Rated voltage max. 30 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability

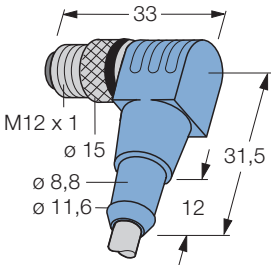


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole + ground 	PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.5 mm	WWAS5-2/P00 8007220	WWAS5-5/P00 8007225	WWAS5-10/P00 8007230
	PVC, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAS5-2/XOR 8007222	WWAS5-5/XOR 8007227	WWAS5-10/XOR 8007232
	PUR/PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAS5-2/S90 8007221	WWAS5-5/S90 8007226	WWAS5-10/S90 8007231
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.3 mm	WWAS5-2/S74 8007224	WWAS5-5/S74 8007229	WWAS5-10/S74 8007234
	PUR, halogen-free, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAS5-2/S366 8020047	WWAS5-5/S366 8020048	WWAS5-10/S366 8020049
	PUR, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	WWAS5-2/S398 8018884	WWAS5-5/S398 8020050	WWAS5-10/S398 8019193
6-pole 	PVC, GY 6 x 0.25 mm ² / Ø 5.8 mm	WWAS6-2/P00/S2560 8012733	WWAS6-5/P00/S2560 8012734	WWAS6-10/P00/S2560 8012735
	PUR/PVC, GY 6 x 0.25 mm ² / Ø 5.8 mm	WWAS6-2/S90/S2560 8012736	WWAS6-5/S90/S2560 8012737	WWAS6-10/S90/S2560 8012738

M12 x 1 - Round Connector
Angled Male Connector,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



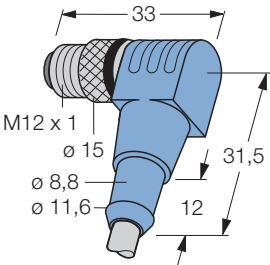
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
8-pole 	PVC, GY 8 x0.25 mm² / Ø 5.7 mm	WWAS8-2/P00 8012721	WWAS8-5/P00 8012722	WWAS8-10/P00 8012723
	PUR/PVC, GY 8 x0.25 mm² / Ø 5.7 mm	WWAS8-2/S90 8012724	WWAS8-5/S90 8012725	WWAS8-10/S90 8012726
	PUR, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WWAS8-2/S366 8020051	WWAS8-5/S366 8020052	WWAS8-10/S366 8020053
12-pole 	PVC, GY 12 x0.14 mm² / Ø 5.8 mm	WWAS12-2/P00 8027606	WWAS12-5/P00 8027607	WWAS12-10/P00 8027608
	PUR, halogen-free, GY 12 x0.14 mm² / Ø 5.8 mm	WWAS12-2/S366 8027609	WWAS12-5/S366 8027610	WWAS12-10/S366 8027611

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Angled Male Connector, Shielded,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



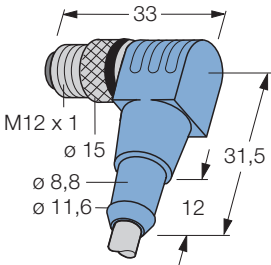
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, shielded, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWASS3-2/P00 8019088	WWASS3-5/P00 8019089	WWASS3-10/P00 8019090
	PUR, shielded, halogen-free, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWASS3-2/S366 8019091	WWASS3-5/S366 8019092	WWASS3-10/S366 8019093
4-pole 	PVC, shielded, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWASS4-2/P00 8019094	WWASS4-5/P00 8019095	WWASS4-10/P00 8019096
	PUR, shielded, halogen-free, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWASS4-2/S366 8019097	WWASS4-5/S366 8019098	WWASS4-10/S366 8019099

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Angled Male Connector, Shielded
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

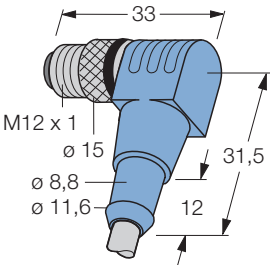


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
5-pole 	PVC, shielded, GY 5 x0.25 mm² / Ø 5.7 mm	WWASS4.5-2/P00 8019140	WWASS4.5-5/P00 8019141	WWASS4.5-10/P00 8019142
	PUR, shielded, halogen-free, GY 5 x0.25 mm² / Ø 5.7 mm	WWASS4.5-2/S366 8019100	WWASS4.5-5/S366 8019101	WWASS4.5-10/S366 8019102
8-pole 	PVC, shielded, GY 8 x0.25 mm² / Ø 6.2 mm	WWASS8-2/P00 8019057	WWASS8-5/P00 8022018	WWASS8-10/P00 8022019
	PUR, shielded, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WWASS8-2/S366 8019058	WWASS8-5/S366 8022020	WWASS8-10/S366 8022021

M12 x 1 - Round Connector
Angled Male Connector, Shielded,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole	PVC, shielded, GY 12 x0.14 mm² / Ø 6.2 mm	WWASS12-2/P00 8028617	WWASS12-5/P00 8028618	WWASS12-10/P00 8028619
	PUR, shielded, halogen-free, GY 12 x0.14 mm² / Ø 6.2 mm	WWASS12-2/S366 8028620	WWASS12-5/S366 8028621	WWASS12-10/S366 8028622

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M12 x 1 - Round Connector
Angled Male Connector, Specially Useable for
Application in the Food & Beverage-Industry



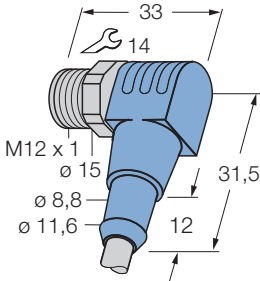
Connector male connector, M12 x 1, angled
Grip plastic, PVC, blue
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PVC, grey
Contacts metal, CuZn, gold-plated

Polarity 4-pole
Ampacity 4 A
Rated voltage max. 250 V

Polarity 4-pole + ground
Ampacity 4 A
Rated voltage max. 60 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -25 ... +70 °C
Degree of protection IP67, IP69K, only in screwed status
Mechanical lifespan min. 100 contact durability

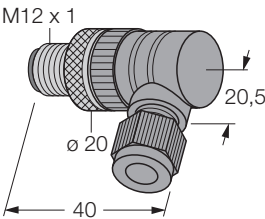


		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	FB-WWAS4-5/P00 8024466	FB-WWAS4-10/P00 8024621	FB-WWAS4-15/P00 8024622
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	FB-WWAS5-5/P00 8024470	FB-WWAS5-10/P00 8024614	FB-WWAS5-15/P00 8024615

M12 x 1 - Round Connector
Angled Male Connector, Field-Wireable,
Screw-Clamp-Connection



Connector	M12 x 1, field-wireable male connector, angled
Grip	plastic, PBT, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn,CuSnZn
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 150 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 8 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...6 mm
Core cross-section/Clamping ability	max. 0.5 mm²
Connection mode	screw-clamping



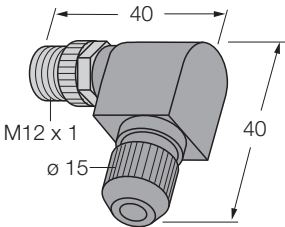
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		WWASC4K 8004806
5-pole 		WWASC5K 8004807

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M12 x 1 - Round Connector
Angled Male connector, Field-Wireable,
Cut-Clamp-Connection



Connector	M12 x 1, field-wireable male connector, angled
Grip	plastic, PBT, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Ideal core insulation	PE or PVC
Polarity	4-pole
Ampacity	3 A
Rated voltage	max. 32 V
Insulation resistance	$\geq 10^9 \Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...5.2 mm
Core cross-section/Clamping ability	0.25...0.5 mm ²
Connection mode	cut-clamping



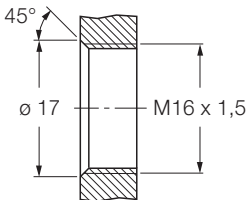
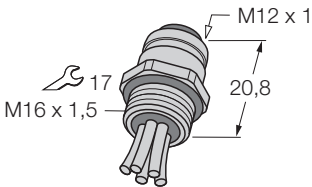
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		WWASC4S 8019717

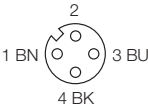
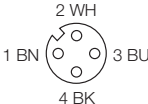
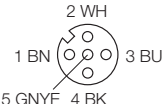
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1,
Flange housing	with wire
Contact carriers	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

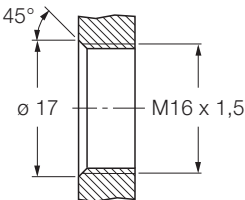
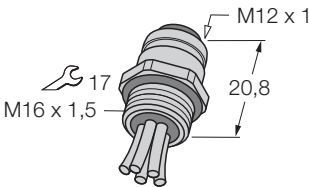


		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
3-pole 	Wire-construction	
	PVC	
	3 x0.34 mm ²	EC-FK3-0,5/16 8027515
4-pole 	Wire-construction	
	PVC	
	4 x0.34 mm ²	EC-FK4-0,5/16 8027516
4-pole + ground 	Wire-construction	
	PVC	
	4 x0.34 mm ² / 1 x0.5 mm ²	EC-FK5-0,5/16 8027520

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

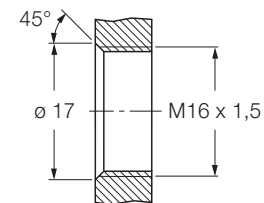
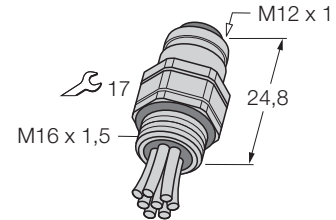


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x0.34 mm ²	EC-FK4.5-0,5/16 8027519
8-pole 	PVC 8 x0.25 mm ²	EC-FK8-0,5/16 8028110
12-pole 	PVC 12 x0.14 mm ²	EC-FK12-0,5/16 8028116

M12 x 1 - Round Connector

Female Flange Connector with Wire, Adjustable, Metrical Screw In Thread M16 x 1,5

Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

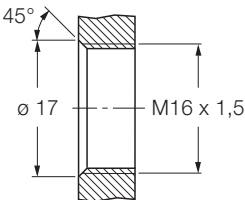
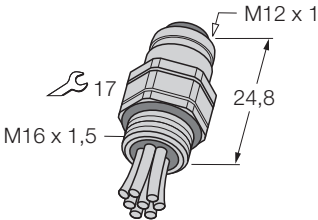


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	EC-FKD3-0,5/16 8027526
4-pole 	PVC 4 x 0.34 mm ²	EC-FKD4-0,5/16 8027527
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FKD5-0,5/16 8027529

M12 x 1 - Round Connector
Female FlangeConnector with Wire,
Adjustable,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

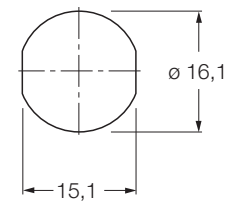
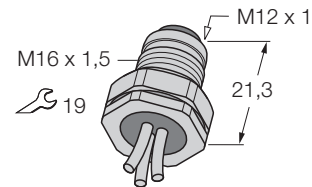


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x0.34 mm ²	EC-FKD4.5-0,5/16 8027528
8-pole 	PVC 8 x0.25 mm ²	EC-FKD8-0,5/16 8028111
12-pole 	PVC 12 x0.14 mm ²	EC-FKD12-0,5/16 8028117

M12 x 1 - Round Connector

Female Flange Connector with Wire, Back Mount, Fastening Screw Thread M16 x 1,5

Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

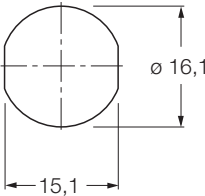
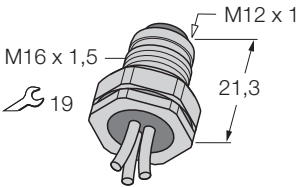


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	EC-FKFD3-0,5/16 8027547
4-pole 	PVC 4 x 0.34 mm ²	EC-FKFD4-0,5/16 8027548
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FKFD5-0,5/16 8027550

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Back Mount,
Fastening Screw Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



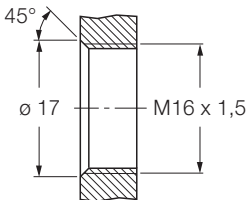
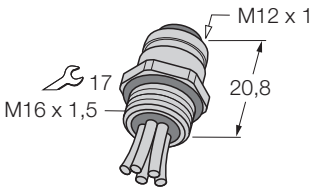
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x0.34 mm²	EC-FKFD4.5-0,5/16 8027549
8-pole 	PVC 8 x0.25 mm²	EC-FKFD8-0,5/16 8028120
12-pole 	PVC 12 x0.14 mm²	EC-FKFD12-0,5/16 8028121

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Stainless-Steel-Type,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1,
Flange housing	with wire
Contact carriers	stainless steel, 1.4404
Contacts	plastic, TPU, black
Seal	metal, CuZn, gold-plated
Screw-in thread seal	plastic, FKM/FPM
	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

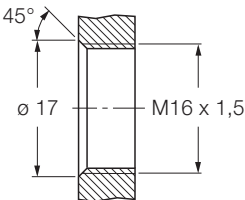
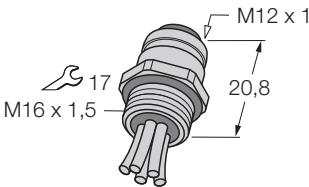


		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
3-pole 	PVC 3 x 0.34 mm ²	EC-FKE3-0,5/16 8028126
4-pole 	PVC 4 x 0.34 mm ²	EC-FKE4-0,5/16 8028127
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FKE5-0,5/16 8028131

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Stainless-Steel-Type,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

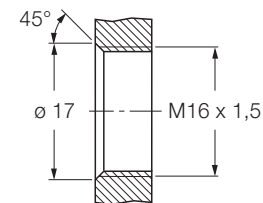
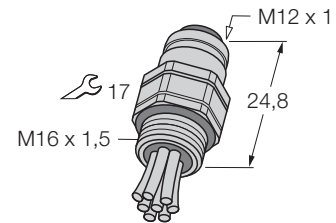


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x0.34 mm ²	EC-FKE4.5-0,5/16 8028128
8-pole 	PVC 8 x0.25 mm ²	EC-FKE8-0,5/16 8029015
12-pole 	PVC 12 x0.14 mm ²	EC-FKE12-0,5/16 8029696

M12 x 1 - Round Connector

Female Flange Connector with Wire, Adjustable, Stainless-Steel-Type, Metrical Screw In Thread M16 x 1,5

Connector	female flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

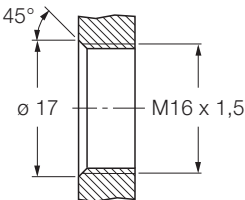
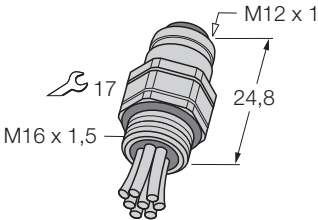


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	EC-FKDE3-0,5/16 8028132
4-pole 	PVC 4 x 0.34 mm ²	EC-FKDE4-0,5/16 8028133
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FKDE5-0,5/16 8028136

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Adjustable, Stainless-Steel-Type,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

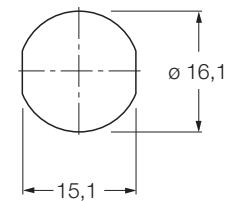
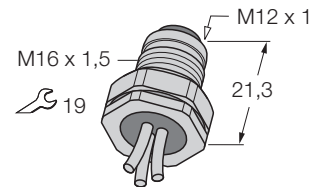


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x0.34 mm ²	EC-FKDE4.5-0,5/16 8028135
8-pole 	PVC 8 x0.25 mm ²	EC-FKDE8-0,5/16 8029038
12-pole 	PVC 12 x0.14 mm ²	EC-FKDE12-0,5/16 8029698

M12 x 1 - Round Connector

Female Flange Connector with Wire, Back Mount, Stainless-Steel-Type, Fastening Screw Thread M16 x 1,5

Connector	female flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

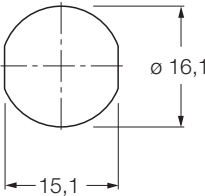
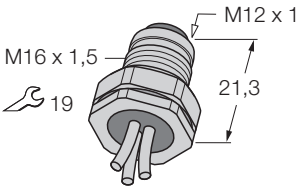


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	EC-FKFDE3-0,5/16 8029175
4-pole 	PVC 4 x 0.34 mm ²	EC-FKFDE4-0,5/16 8029176
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FKFDE5-0,5/16 8029189

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Back Mount, Stainless-Steel-Type,
Fastening Screw Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

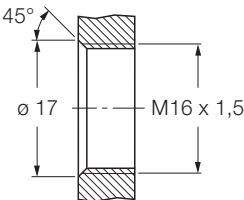
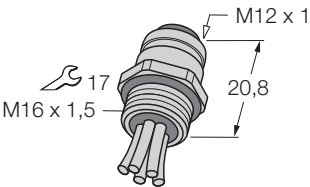


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x0.34 mm ²	EC-FKFDE4.5-0,5/16 8029752
8-pole 	PVC 8 x0.25 mm ²	EC-FKFDE8-0,5/16 8029160
12-pole 	PVC 12 x0.14 mm ²	EC-FKFDE12-0,5/16 8029700

M12 x 1 - Round Connector
Female Flange Connector with Wire,
B-Coded,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



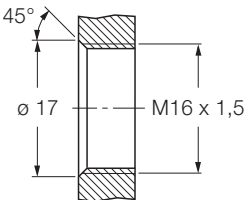
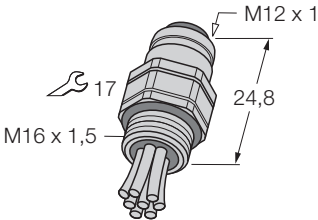
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole + ground 	PVC 4 x0.34 mm² / 1 x0.5 mm²	EC-FKW5-0,5/16 8029677

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Adjustable, B-Coded,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



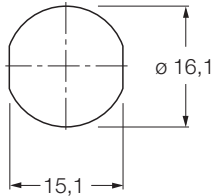
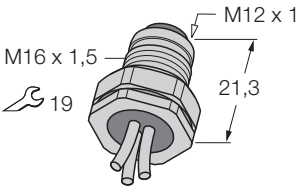
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FKDW5-0,5/16 8029678

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Back Mount, B-Coded,
Fastening Screw Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



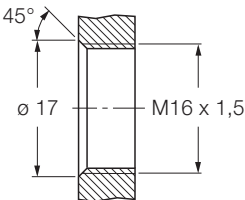
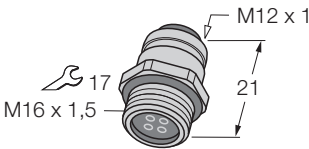
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
4-pole + ground 	Wire-construction	
	PVC	
	4 x0.34 mm ² / 1 x0.5 mm ²	EC-FKFDW5-0,5/16 8029676

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Soldering-Contacts,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1,
Flange housing	with soldering-contacts
Contact carriers	metal, CuZn, nickel-plated
Contacts	plastic, TPU, black
Seal	metal, CuZn, gold-plated
Screw-in thread seal	plastic, FPM/FKM
	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

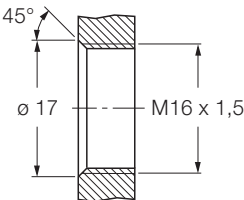
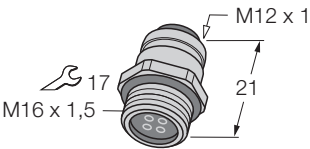


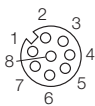
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		EC-FK3-L/16 8027566
4-pole 		EC-FK4-L-16 8027569
5-pole 		EC-FK5-L/16 8027570

M12 x 1 - Round Connector
Female Flange Connector with Soldering-Contacts,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1,
Flange housing	soldering-contacts
Contact carriers	metal, CuZn, nickel-plated
Contacts	plastic, black
Seal	metal, CuZn, gold-plated
Screw-in thread seal	plastic, FKM/FPM
	plastic, NBR
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



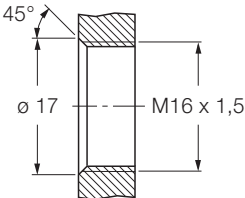
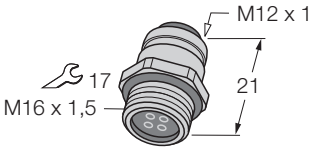
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole 		EC-FK8-L/16 8028122

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Soldering-Contacts,
Stainless-Steel-Type,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1,
Flange housing	soldering-contacts
Contact carriers	stainless steel, 1.4404
Contacts	plastic, TPU, black
Seal	metal, CuZn, gold-plated
Screw-in thread seal	plastic, FKM/FPM
	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

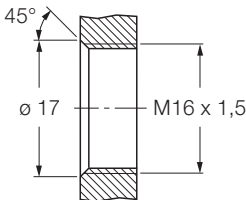
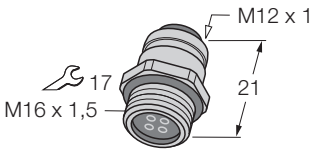


		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole 	Wire-construction	EC-FKE3-L/16 8029169
4-pole 		EC-FKE4-L/16 8029170
5-pole 		EC-FKE5-L/16 8029171

M12 x 1 - Round Connector
Female Flange Connector with Soldering-Contacts,
Stainless-Steel-Type,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with soldering-contacts
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



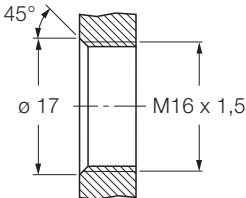
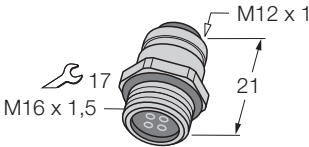
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole 		EC-FKE8-L/16 8029016

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Soldering-Contacts,
B-Coded,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1,
	with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

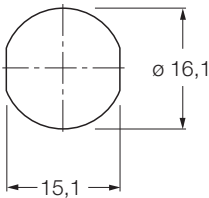
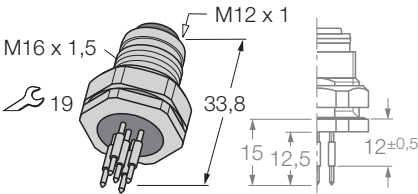


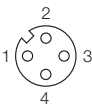
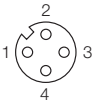
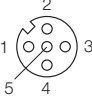
		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
5-pole 	Wire-construction	EC-FKW5-L/16 8029682

M12 x 1 - Round Connector
Female Flange Connector with Print-Contacts,
Back Mount,
Fastening Screw Thread M16 x 1,5



Connector	female flange connector, M12 x 1,
Flange housing	with print-contacts
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	metal, CuZn, nickel-plated
Contacts	plastic, TPU, black
Seal	metal, CuZn, gold-plated
Screw-in thread seal	plastic, FKM/FPM
	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



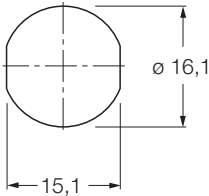
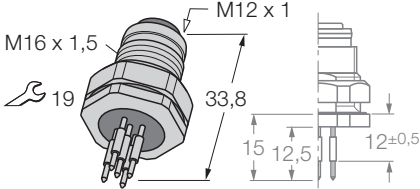
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		EC-FKFD3-P/16 8029476
4-pole 		EC-FKFD4-P/16 8029477
5-pole 		EC-FKFD5-P/16 8029478

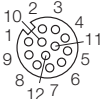
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Print-Contacts,
Back Mount,
Fastening Screw Thread M16 x 1,5



Connector	female flange connector, M12 x 1,
	with print-contacts
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

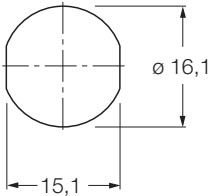
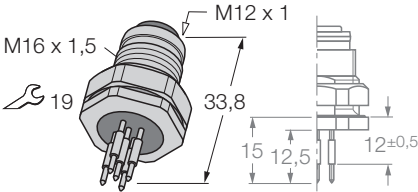


		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
8-pole 	Wire-construction	EC-FKFD8-P/16 8029479
12-pole 		EC-FKFD12-P/16 8029480

M12 x 1 - Round Connector
Female Flange Connector with Print-Contacts,
Back Mount, Stainless-Steel-Type,
Fastening Screw Thread M16 x 1,5



Connector	female flange connector, M12 x 1,
Flange housing	with print-contacts
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	stainless steel, 1.4404
Contacts	plastic, TPU, black
Seal	metal, CuZn, gold-plated
Screw-in thread seal	plastic, FKM/FPM
	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



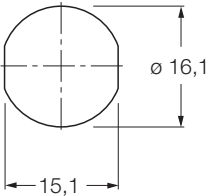
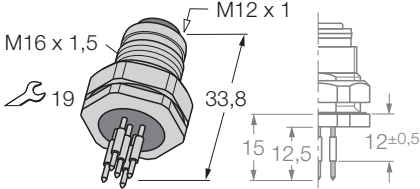
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		EC-FKFDE3-P/16 8029695
4-pole 		EC-FKFDE4-P/16 8029508
5-pole 		EC-FKFDE5-P/16 8029509

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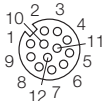
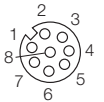
M12 x 1 - Round Connector
Female Flange Connector with Print-Contacts,
Back Mount, Stainless-Steel-Type,
Fastening Screw Thread M16 x 1,5



Connector	female flange connector, M12 x 1,
	with print-contacts
Flange housing	stainless steel, 1.4404
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
8-pole	Wire-construction	EC-FKFDE8-P/16 8029510
12-pole		EC-FKFDE12-P/16 8029512

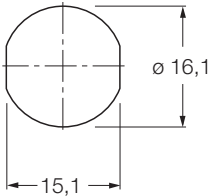
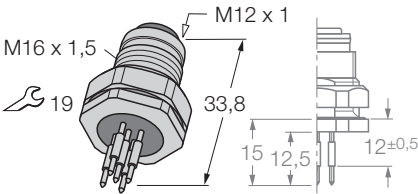


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M12 x 1 - Round Connector
Female Flange Connector with Print-Contacts,
Back Mount, B-Coded,
Fastening Screw Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with print-contacts
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



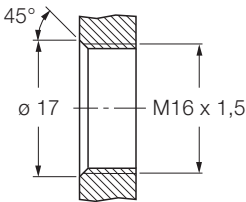
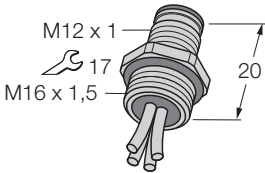
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 		EC-FKFDW5-P/16 8029684

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M12 x 1 - Round Connector
Male Flange Connector with Wire,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



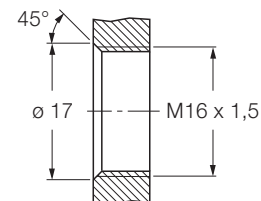
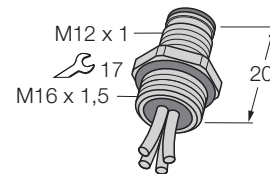
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x0.34 mm ²	EC-FS3-0,5/16 8027382
4-pole 	PVC 4 x0.34 mm ²	EC-FS4-0,5/16 8027383
4-pole + ground 	PVC 4 x0.34 mm ² / 1 x0.5 mm ²	EC-FS5-0,5/16 8027393

M12 x 1 - Round Connector

Male Flange Connector with Wire, Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



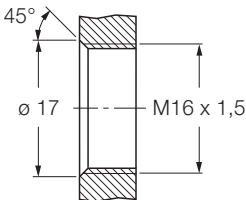
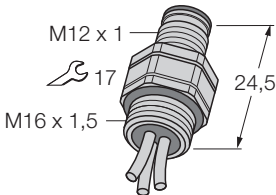
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x 0.34 mm ²	EC-FS4.5-0,5/16 8027394
8-pole 	PVC 8 x 0.25 mm ²	EC-FS8-0,5/16 8028072
12-pole 	PVC 12 x 0.14 mm ²	EC-FS12-0,5/16 8028073

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M12 x 1 - Round Connector
Male Flange Connector with Wire,
Adjustable,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

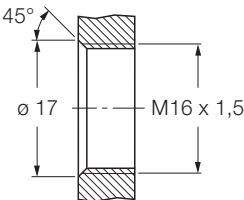
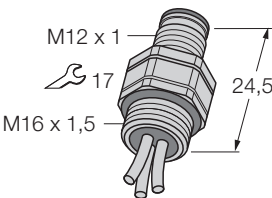


		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
3-pole 	PVC 3 x0.34 mm ²	EC-FSD3-0,5/16 8027467
4-pole 	PVC 4 x0.34 mm ²	EC-FSD4-0,5/16 8027469
4-pole + ground 	PVC 4 x0.34 mm ² / 1 x0.5 mm ²	EC-FSD5-0,5/16 8027471

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Adjustable,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

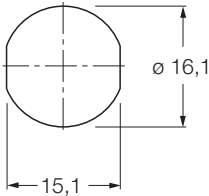
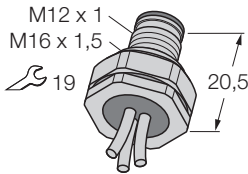


		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
5-pole 	PVC 5 x0.34 mm ²	EC-FSD4,5-0,5/16 8027470
8-pole 	PVC 8 x0.25 mm ²	EC-FSD8-0,5/16 8028074
12-pole 	PVC 12 x0.14 mm ²	EC-FSD12-0,5/16 8028077

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Back Mount,
Fastening Screw Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



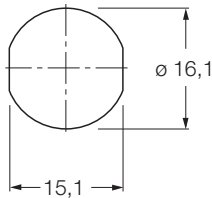
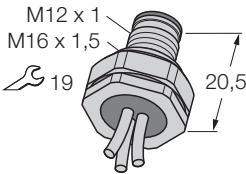
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x0.34 mm ²	EC-FSFD3-0,5/16 8027509
4-pole 	PVC 4 x0.34 mm ²	EC-FSFD4-0,5/16 8027508
4-pole + ground 	PVC 4 x0.34 mm ² / 1 x0.5 mm ²	EC-FSFD5-0,5/16 8027505

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Back Panel,
Fastening Screw Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

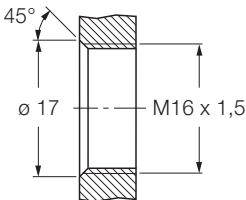
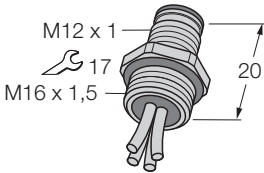


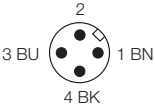
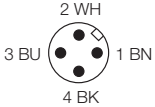
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
5-pole 	PVC	EC-FSFD4.5-0,5/16
	5 x0.34 mm ²	8027506
8-pole 	PVC	EC-FSFD8-0,5/16
	8 x0.25 mm ²	8028080
12-pole 	PVC	EC-FSFD12-0,5/16
	12 x0.14 mm ²	8028554

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Stainless-Steel-Type,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed stauts
Mechanical lifespan	min. 100 contact durability



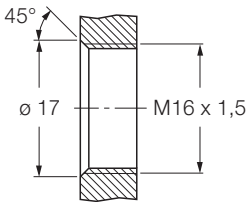
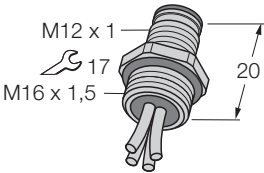
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x0.34 mm ²	EC-FSE3-0,5/16 8028145
4-pole 	PVC 4 x0.34 mm ²	EC-FSE4-0,5/16 8028147
4-pole + ground 	PVC 4 x0.34 mm ² / 1 x0.5 mm ²	EC-FSE5-0,5/16 8028149

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M12 x 1 - Round Connector
Male Flange Connector with Wire,
Stainless-Steel-Type,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed staufs
Mechanical lifespan	min. 100 contact durability



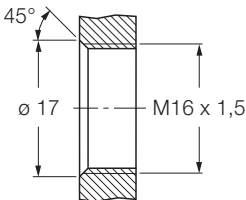
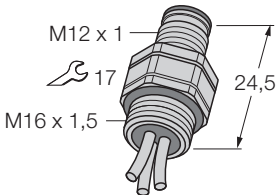
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
5-pole 	PVC	EC-FSE4.5-0,5/16
	5 x0.34 mm ²	8028148
8-pole 	PVC	EC-FSE8-0,5/16
	8 x0.25 mm ²	8029083
12-pole 	PVC	EC-FSE12-0,5/16
	12 x0.14 mm ²	8029344

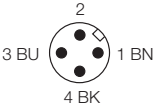
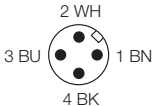
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Adjustable, Stainless-Steel-Type,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

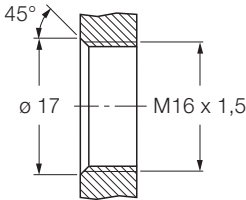
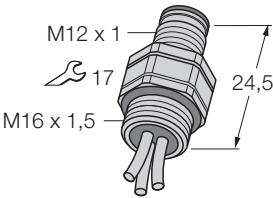


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	EC-FSDE3-0,5/16 8028150
4-pole 	PVC 4 x 0.34 mm ²	EC-FSDE4-0,5/16 8028151
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FSDE5-0,5/16 8028153

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Adjustable, Stainless-Steel-Type,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



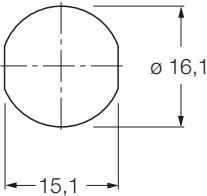
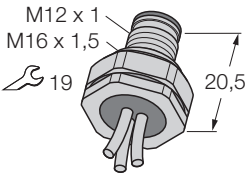
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
5-pole 	PVC 5 x 0.34 mm ²	EC-FSDE4.5-0,5/16 8028152
8-pole 	PVC 8 x 0.25 mm ²	EC-FSDE8-0,5/16 8029084
12-pole 	PVC 12 x 0.14 mm ²	EC-FSDE12-0,5/16 8029346

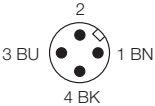
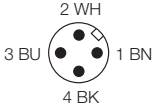
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Back Mount, Stainless-Steel-Type,
Fastening Screw Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

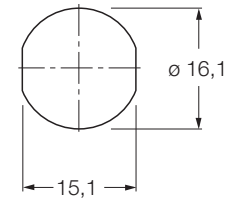
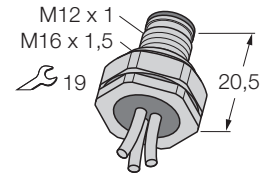


		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
3-pole 	PVC 3 x0.34 mm ²	EC-FSFDE3-0,5/16 8029213
4-pole 	PVC 4 x0.34 mm ²	EC-FSFDE4-0,5/16 8029214
4-pole + ground 	PVC 4 x0.34 mm ² / 1 x0.5 mm ²	EC-FSFDE5-0,5/16 8029216

M12 x 1 - Round Connector Male Flange Connector with Wire, Back Mount, Stainless-Steel-Type, Fastening Screw Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



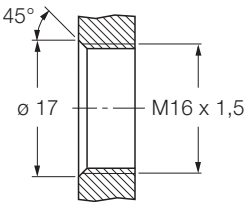
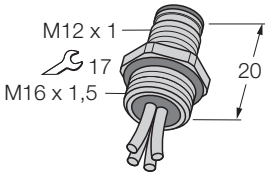
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x 0.34 mm ²	EC-FSFDE4.5-0,5/16 8029215
8-pole 	PVC 8 x 0.25 mm ²	EC-FSFDE8-0,5/16 8029158
12-pole 	PVC 12 x 0.14 mm ²	EC-FSFDE12-0,5/16 8029212

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M12 x 1 - Round Connector
Male Flange Connector with Wire,
B-Coded,
Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



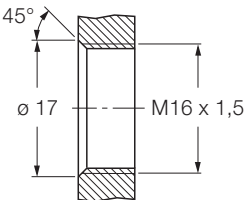
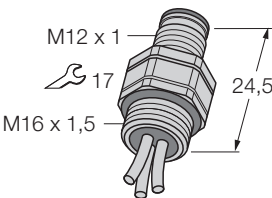
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole + ground 	PVC 4 x0.34 mm ² / 1 x0.5 mm ²	EC-FSW5-0,5/16 8029688

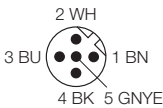
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M12 x 1 - Round Connector
Male Flange Connector with Wire,
Adjustable, B-Coded,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



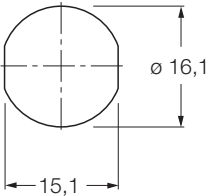
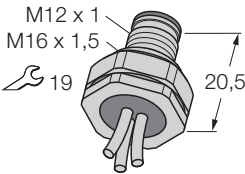
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FSDW5-0,5/16 8029691

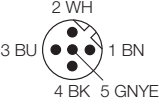
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M12 x 1 - Round Connector
Male Flange Connector with Wire,
Back Panel Mount, B-Coded,
Fastening Screw Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FSFDW5-0,5/16 8029690

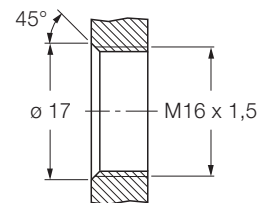
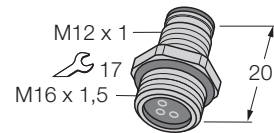
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M12 x 1 - Round Connector

Male Flange Connector with Soldering-Contacts, Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole, (pin 5 leading)
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



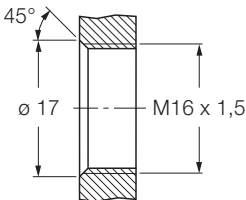
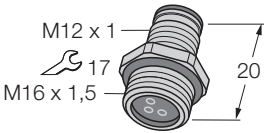
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		EC-FS3-L/6 8029545
4-pole 		EC-FS4-L/16 8029546
5-pole, (pin 5 leading) 		EC-FS5-L/16 8029548

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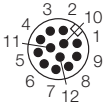
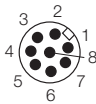
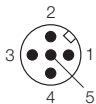
M12 x 1 - Round Connector
Male Flange Connector with Soldering-Contacts,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
5-pole	Wire-construction	EC-FS4.5-L/16 8029547
8-pole		EC-FS8-L/16 8029551
12-pole		EC-FS12-L/16 8029552

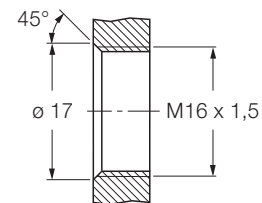
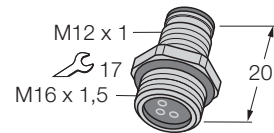


M12 x 1 - Round Connector

Male Flange Connector with Soldering-Contacts, Stainless-Steel-Type, Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole, (pin 5 leading)
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



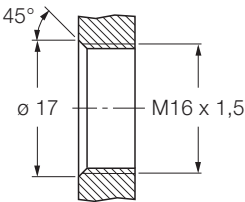
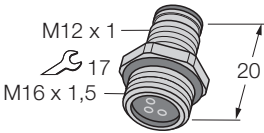
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		EC-FSE3-L/16 8029553
4-pole 		EC-FSE4-L/16 8029554
5-pole, (pin 5 leading) 		EC-FSE5-L/16 8029556

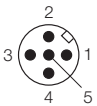
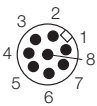
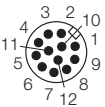
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M12 x 1 - Round Connector
Male Flange Connector with Soldering-Contacts,
Stainless-Steel-Type,
Metrical Srew In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



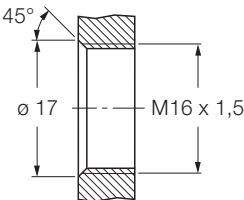
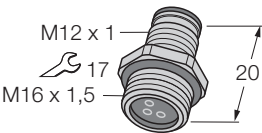
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 		EC-FSE4.5-L/16 8029555
8-pole 		EC-FSE8-L/16 8029557
12-pole 		EC-FSE12-L/16 8029558

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Soldering-Contacts,
B-Coded,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole, (pin 5 leading)
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



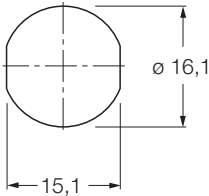
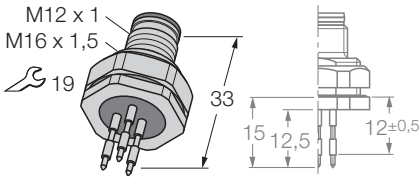
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole, (pin 5 leading) 		EC-FSW5-L/16 8029685

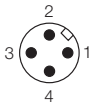
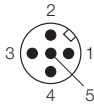
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M12 x 1 - Round Connector
Male Flange Connector with Print-Contacts,
Back Mount
Fastening Screw Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with print-contacts
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole, (pin 5 leading)
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

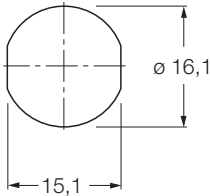
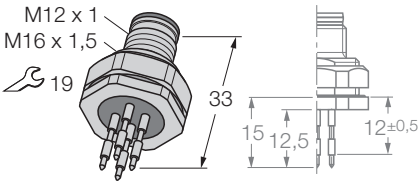


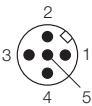
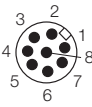
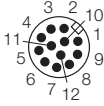
		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole 	Wire-construction	EC-FSFD3-P/16 8029495
4-pole 		EC-FSFD4-P/16 8029497
5-pole, (pin 5 leading) 		EC-FSFD5-P/16 8029501

M12 x 1 - Round Connector
Male Flange Connector with Print-Contacts,
Back Mount,
Fastening Screw Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with print-contacts
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



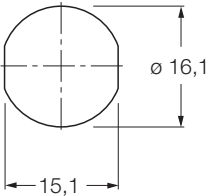
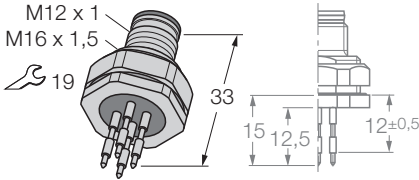
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 		EC-FSFD4.5-P/16 8029499
8-pole 		EC-FSFD8-P/16 8029503
12-pole 		EC-FSFD12-P/16 8029505

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Print-Contacts,
Back Mount, Stainless-Steel-Type,
Fastening Screw Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with print-contacts
Flange housing	stainless steel, 1.4404
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole, (pin 5 leading)
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

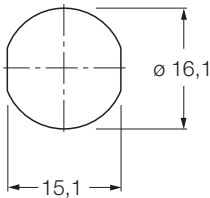
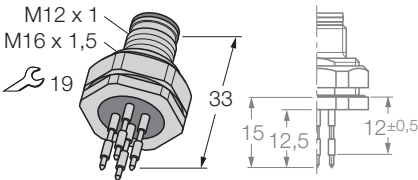


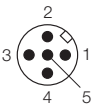
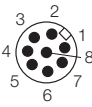
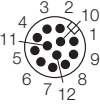
		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole	Wire-construction	EC-FSFDE3-P/16 8029496
4-pole		EC-FSFDE4-P/16 8029498
5-pole, (pin 5 leading)		EC-FSFDE5-P/16 8029502

M12 x 1 - Round Connector
Male Flange Connector with Print-Contacts,
Back Mount, Stainless-Steel-Type,
Fastening Screw Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with
Flange housing	print-contacts
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	stainless steel, 1.4404
Contacts	plastic, PA 12 GF, black
Screw-in thread seal	metal, CuZn, gold-plated
	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



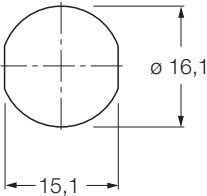
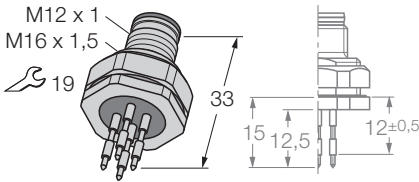
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 		EC-FSFDE4.5-P/16 8029500
8-pole 		EC-FSFDE8-P/16 8029504
12-pole 		EC-FSFDE12-P/16 8029506

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Print-Contacts,
Back Mount, B-Coded,
Fastening Screw Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with print-contacts
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole, (pin 5 leading)
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed staufs
Mechanical lifespan	min. 100 contact durability



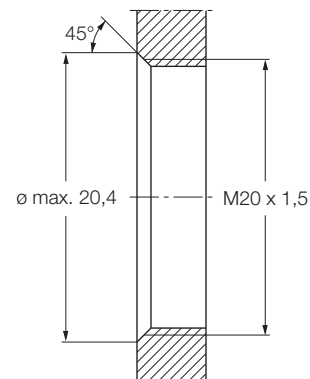
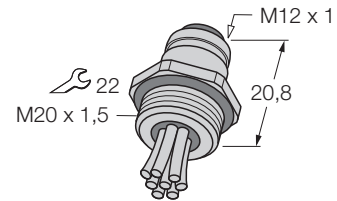
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole, (pin 5 leading) 		EC-FSFDW5-P/16 8029687

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector

Female Flange Connector with Wire, Metrical Screw In Thread M20 x 1,5

Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

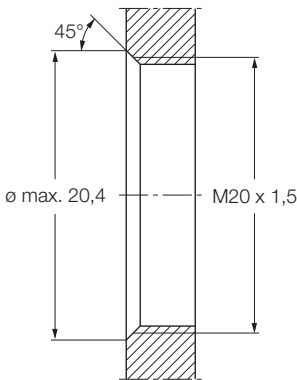
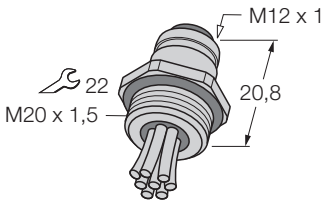


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	EC-FK3-0,5/20 8027540
4-pole 	PVC 4 x 0.34 mm ²	EC-FK4-0,5/20 8027542
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FK5-0,5/20 8027544

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

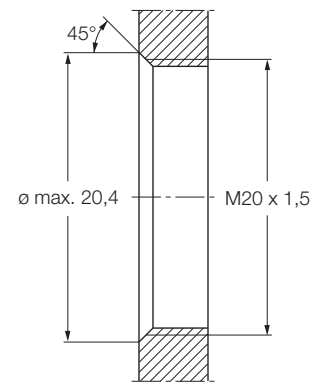
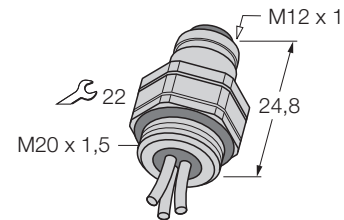


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x0.34 mm ²	EC-FK4.5-0,5/20 8027543
8-pole 	PVC 8 x0.25 mm ²	EC-FK8-0,5/20 8028112
12-pole 	PVC 12 x0.14 mm ²	EC-FK12-0,5/20 8028118

M12 x 1 - Round Connector

Female Flange Connector with Wire, Adjustable, Metrical Screw In Thread M20 x 1,5

Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

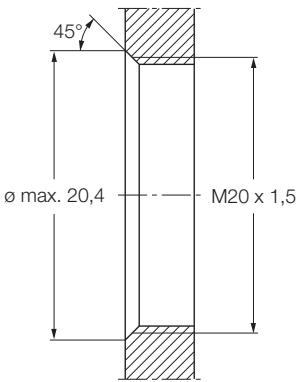
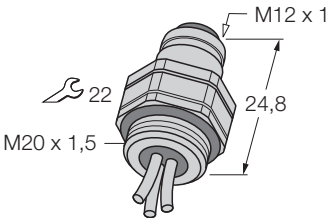


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	EC-FKD3-0,5/20 8027555
4-pole 	PVC 4 x 0.34 mm ²	EC-FKD4-0,5/20 8027556
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FKD5-0,5/20 8027558

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Adjustable,
Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



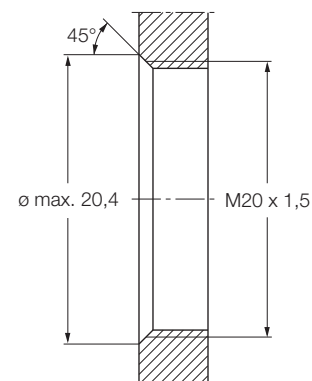
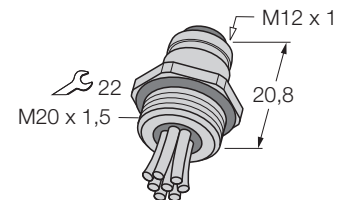
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x0.34 mm ²	EC-FKD4.5-0,5/20 8027557
8-pole 	PVC 8 x0.25 mm ²	EC-FKD8-0,5/20 8028115
12-pole 	PVC 12 x0.14 mm ²	EC-FKD12-0,5/20 8028119

M12 x 1 - Round Connector

Female Flange Connector with Wire, Stainless-Steel-Type, Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



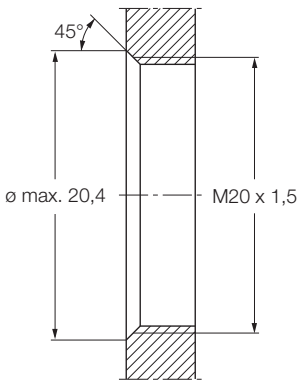
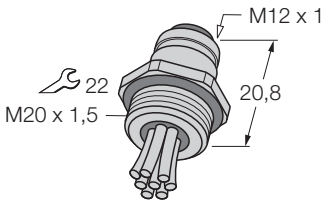
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	EC-FKE3-0,5/20 8028137
4-pole 	PVC 4 x 0.34 mm ²	EC-FKE4-0,5/20 8028138
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FKE5-0,5/20 8028140

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Stainless-Steel-Type,
Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed stauts
Mechanical lifespan	min. 100 contact durability

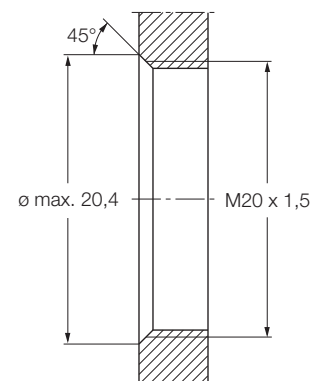
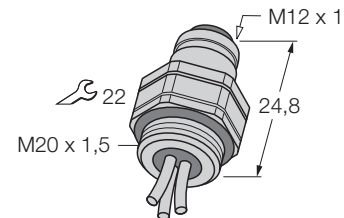


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x0.34 mm²	EC-FKE4.5-0,5/20 8028139
8-pole 	PVC 8 x0.25 mm²	EC-FKE8-0,5/20 8029021
12-pole 	PVC 12 x0.14 mm²	EC-FKE12-0,5/20 8029697

M12 x 1 - Round Connector Female Flange Connector with Wire, Adjustable, Stainless-Steel-Type, Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



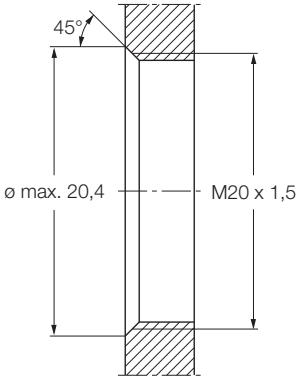
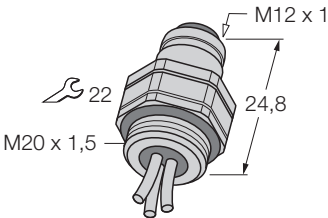
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	EC-FKDE3-0,5/20 8028141
4-pole 	PVC 4 x 0.34 mm ²	EC-FKDE4-0,5/20 8028142
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FKDE5-0,5/20 8028144

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Adjustable, Stainless-Steel-Type,
Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

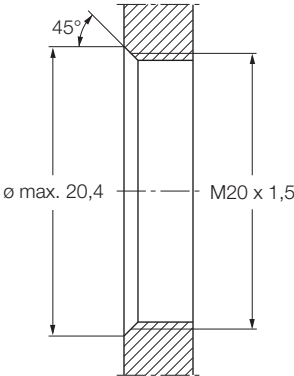
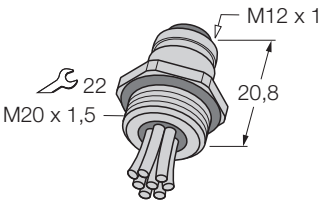


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x0.34 mm ²	EC-FKDE4.5-0,5/20 8028143
8-pole 	PVC 8 x0.25 mm ²	EC-FKDE8-0,5/20 8029039
12-pole 	PVC 12 x0.14 mm ²	EC-FKDE12-0,5/20 8029699

M12 x 1 - Round Connector
Female Flange Connector with Wire,
B-Coded,
Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



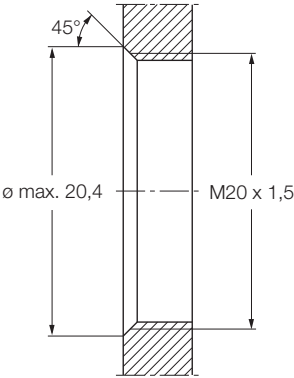
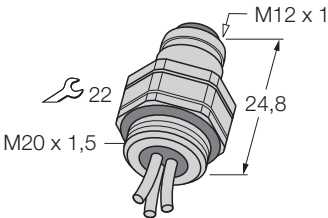
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole + ground 	PVC 4 x0.34 mm² / 1 x0.5 mm²	EC-FKW5-0,5/20 8029740

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Adjustable, B-Coded,
Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



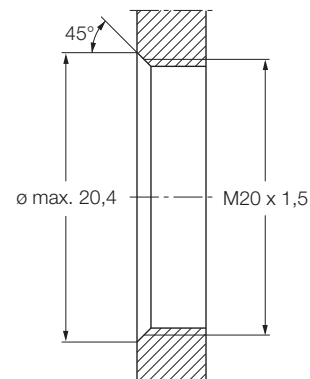
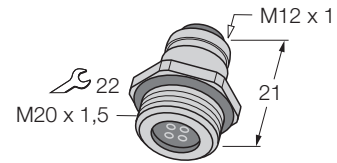
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole + ground 	PVC 4 x0.34 mm ² / 1 x0.5 mm ²	EC-FKDW5-0,5/20 8029681

M12 x 1 - Round Connector

Female Flange Connector with Soldering-Contacts, Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



Standard cable-length

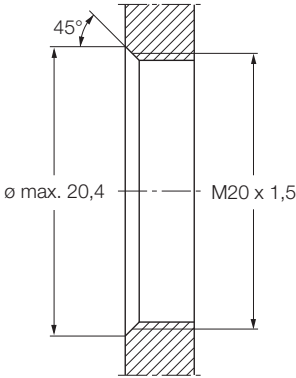
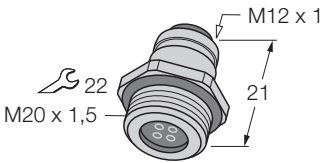
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		EC-FK3-L/20 8027572
4-pole 		EC-FK4-L/20 8027573
5-pole 		EC-FK5-L/20 8027574

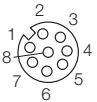
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Soldering-Contacts,
Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole 		EC-FK8-L/20 8028123

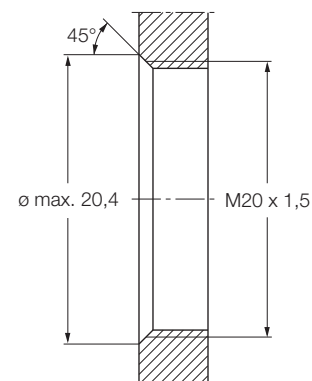
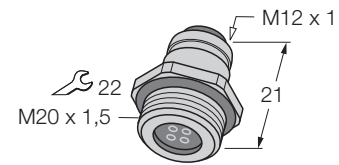
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector

Female Flange Connector with Soldering-Contacts, Stainless-Steel-Type, Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with soldering-contacts
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



Standard cable-length

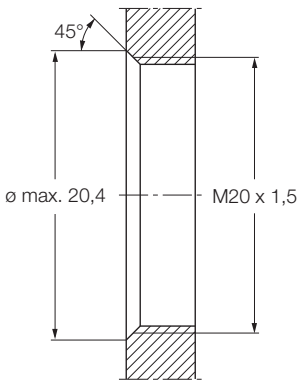
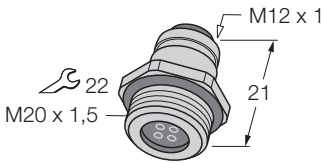
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		EC-FKE3-L/20 8029172
4-pole 		EC-FKE4-L/20 8029173
5-pole 		EC-FKE5-L/16 8029174

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Soldering-Contacts,
Stainless-Steel-Type,
Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with soldering-contacts
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Screw-in thread seal	plastic, NBR
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

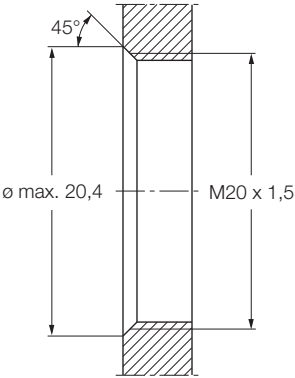
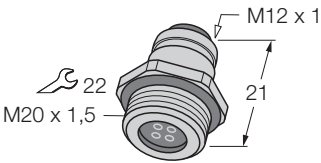


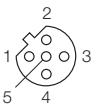
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole 		EC-FKE8-L/20 8029020

M12 x 1 - Round Connector
Female Flange Connector with Soldering-Contacts,
B-Coded,
Metrical Screw In Thread M20 x 1,5



Connector	female flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



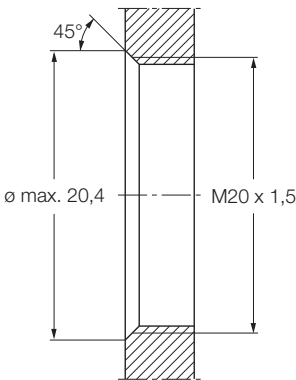
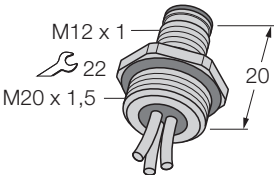
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 		EC-FKW5-L/20 8029683

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M12 x 1 - Round Connector
Male Flange Connector with Wire,
Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

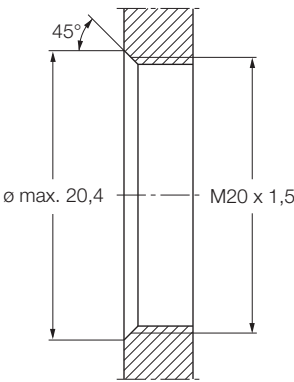
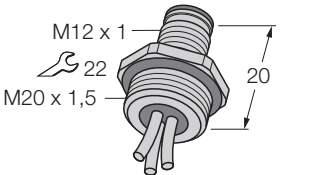


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x0.34 mm ²	EC-FS3-0,5/20 8027480
4-pole 	PVC 4 x0.34 mm ²	EC-FS4-0,5/20 8027481
4-pole + ground 	PVC 4 x0.34 mm ² / 1 x0.5 mm ²	EC-FS5-0,5/20 8027483

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



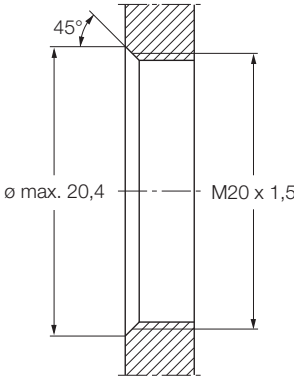
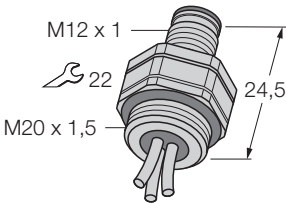
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
5-pole 	PVC 5 x0.34 mm ²	EC-FS4.5-0,5/20 8027482
8-pole 	PVC 8 x0.25 mm ²	EC-FS8-0,5/20 8028075
12-pole 	PVC 12 x0.14 mm ²	EC-FS12-0,5/20 8028078

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M12 x 1 - Round Connector
Male Flange Connector with Wire,
Adjustable,
Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

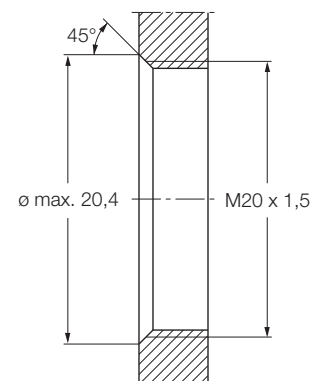
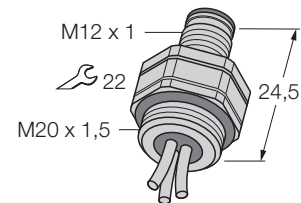


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x0.34 mm ²	EC-FSD3-0,5/20 8027489
4-pole 	PVC 4 x0.34 mm ²	EC-FSD4-0,5/20 8027488
4-pole + ground 	PVC 4 x0.34 mm ² / 1 x0.5 mm ²	EC-FSD5-0,5/20 8027486

M12 x 1 - Round Connector

Male Flange Connector with Wire, Adjustable, Metrical Screw In Thread M20 x 1,5

Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

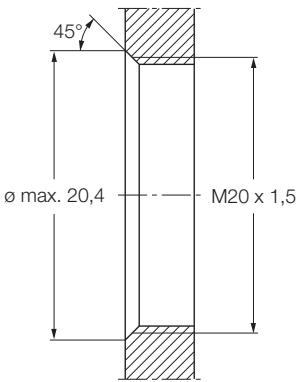
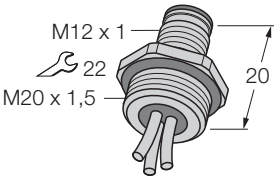


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x 0.34 mm ²	EC-FSD4,5-0,5/20 8027487
8-pole 	PVC 8 x 0.25 mm ²	EC-FSD8-0,5/20 8028076
12-pole 	PVC 12 x 0.14 mm ²	EC-FSD12-0,5/20 8028079

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Stainless-Steel-Type,
Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed stauts
Mechanical lifespan	min. 100 contact durability



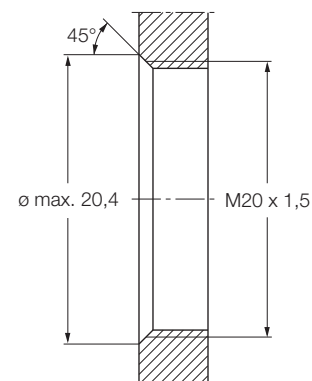
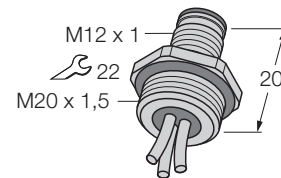
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x0.34 mm ²	EC-FSE3-0,5/20 8028154
4-pole 	PVC 4 x0.34 mm ²	EC-FSE4-0,5/20 8028155
4-pole + ground 	PVC 4 x0.34 mm ² / 1 x0.5 mm ²	EC-FSE8-0,5/20 8028157

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector

Male Flange Connector with Wire, Stainless-Steel-Type, Metrical Screw In Thread M20 x 1,5

Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

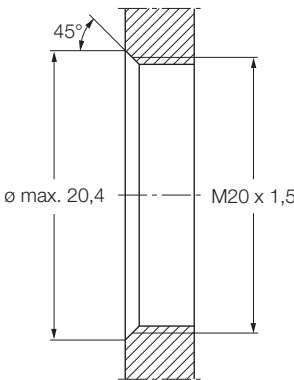
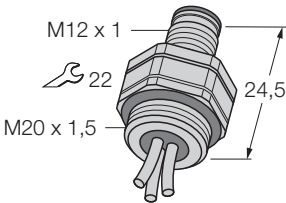


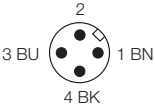
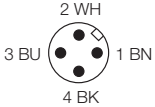
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x 0.34 mm ²	EC-FSE4.5-0,5/20 8028156
8-pole 	PVC 8 x 0.25 mm ²	EC-FSE8-0,5/20 8029088
12-pole 	PVC 12 x 0.14 mm ²	EC-FSE12-0,5/20 8029345

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Adjustable, Stainless-Steel-Type,
Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



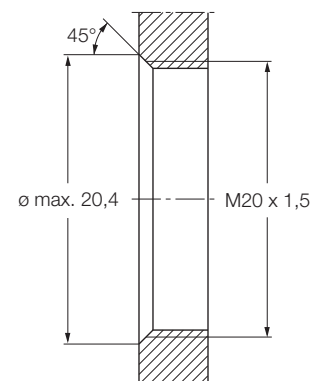
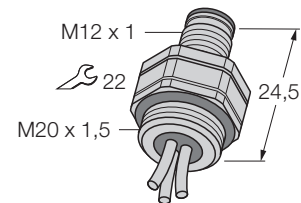
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	EC-FSDE3-0,5/20 8028158
4-pole 	PVC 4 x 0.34 mm ²	EC-FSDE4-0,5/20 8028159
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FSDE5-0,5/20 8028161

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector

Male Flange Connector with Wire, Adjustable, Stainless-Steel-Type, Metrical Screw In Thread M20 x 1,5

Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

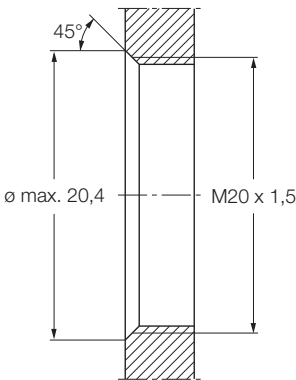
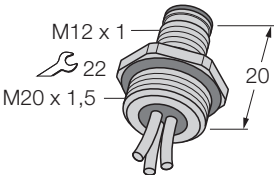


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 	PVC 5 x 0.34 mm ²	EC-FSDE4.5-0,5/20 8028160
8-pole 	PVC 8 x 0.25 mm ²	EC-FSDE8-0,5/20 8029157
12-pole 	PVC 12 x 0.14 mm ²	EC-FSDE12-0,5/20 8029347

M12 x 1 - Round Connector
Male Flange Connector with Wire,
B-Coded,
Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



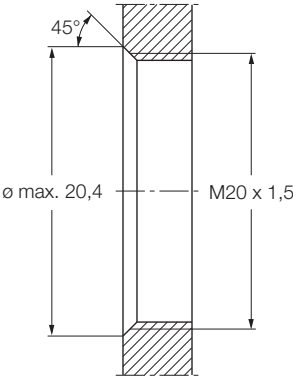
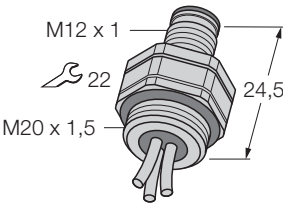
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FSW5-0,5/20 8029689

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Adjustable, B-Coded,
Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature	-30 ... +90 °C
Connector	
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



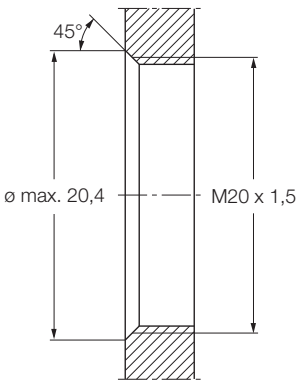
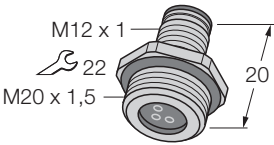
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	EC-FSDW5-0,5/20 8029692

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Soldering-Contacts,
Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole, (pin 5 leading)
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		EC-FS3-L/20 8029575
4-pole 		EC-FS4-L/20 8029576
5-pole, (pin 5 leading) 		EC-FS5-L/20 8029578

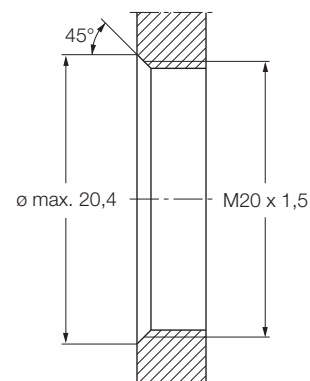
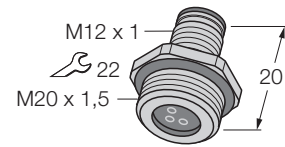
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector

Male Flange Connector with Soldering-Contacts, Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



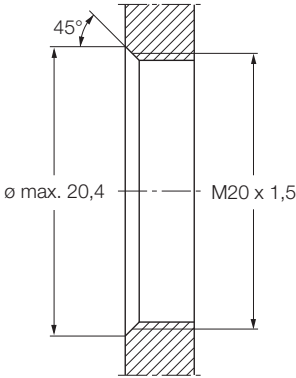
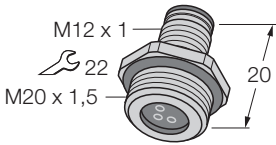
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 		EC-FS4,5-L/20 8029577
8-pole 		EC-FS8-L/20 8029579
12-pole 		EC-FS12-L/20 8029580

Edition: 11.2008
Subject to change without notice

M12 x 1 - Round Connector
Male Flange Connector with Soldering-Contacts,
Stainless-Steel-Type,
Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole, (pin 5 leading)
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

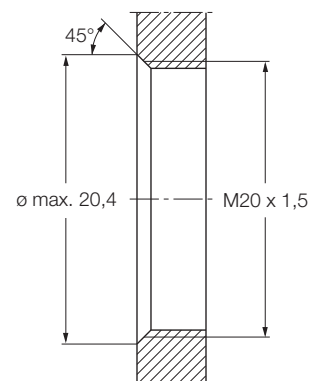
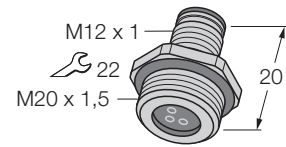


		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		EC-FSE3-L/20 8029581
4-pole 		EC-FSE4-L/20 8029582
5-pole, (pin 5 leading) 		EC-FSE5-L/20 8029584

M12 x 1 - Round Connector

Male Flange Connector with Soldering-Contacts, Stainless-Steel-Type, Metrical Screw In Thread M20 x 1,5

Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

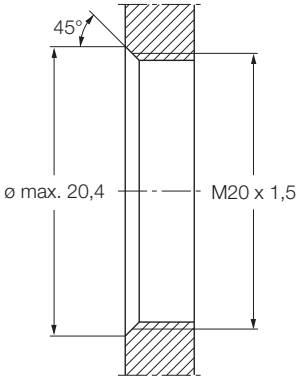
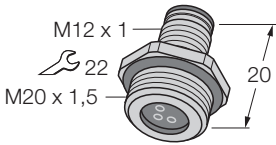


		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
5-pole 		EC-FSE4.5-L/20 8029583
8-pole 		EC-FSE8-L/20 8029585
12-pole 		EC-FSE12-L/20 8029586

M12 x 1 - Round Connector
Male Flange Connector with Soldering-Contacts,
B-Coded,
Metrical Screw In Thread M20 x 1,5



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 12 GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	5-pole, (pin 5 leading)
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

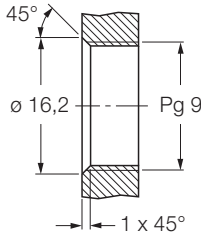
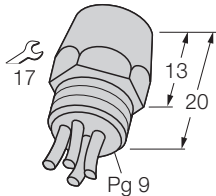


		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
5-pole, (pin 5 leading) 	Wire-construction	EC-FWS5-L/20 8029686

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Screw In Thread PG9



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



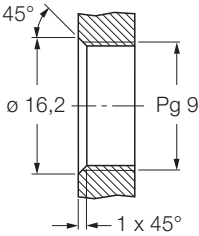
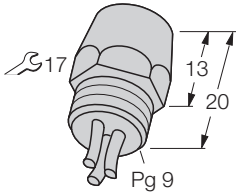
		Standard cable-length
		0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	FK3-0,5 8006556
4-pole 	PVC 4 x 0.34 mm ²	FK4-0,5 8006558
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	FK5-0,5 8008491

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Screw In Thread PG9



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



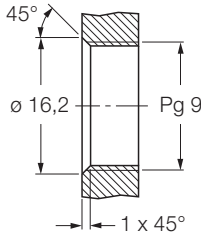
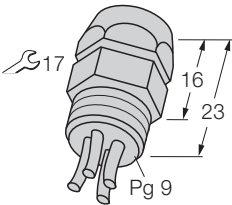
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole 	PVC 8 x0.25 mm²	FK8-0,5 8011571

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Adjustable, Screw In Thread PG9



Connector	female flange connector, M12 x 1,
Flange housing	with wire
Contact carriers	metal, CuZn, nickel-plated
Contacts	plastic, black
Seal	metal, CuZn, gold-plated
Screw-in thread seal	plastic, FPM/FKM
	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + PE
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only with screws tightened
Mechanical lifespan	min. 100 Contact durability



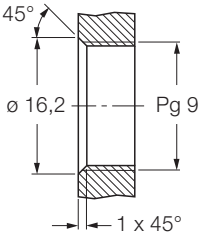
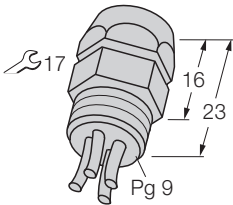
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
3-pole 	PVC 3 x 0.34 mm ²	FKD3-0,5 8006567
4-pole 	PVC 4 x 0.34 mm ²	FKD4-0,5 8006569
4-pole + PE 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	FKD5-0,5 8015251

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Wire,
Adjustable, Screw In Thread PG9



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



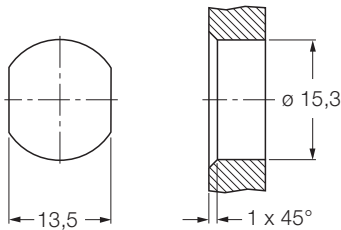
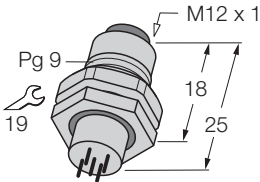
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole 	PVC 8 x 0.25 mm²	FKD8-0,5 8025224

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Print-Contacts,
Back Mount, Screw In Thread PG9



Connector	female flange connector, M12 x 1,
Flange housing	with print-contacts
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	metal, CuZn, nickel-plated
Contacts	plastic, TPU, black
Seal	metal, CuZn, gold-plated
Screw-in thread seal	FPM/FKM
	plastic, NBR
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		FKFD4 8008494
5-pole 		FKFD4.5 8008485
8-pole 		FKFD8 8015609

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector,
Back Mount, 1mm Tolerance Balance,
Fastening Screw Thread PG9



Connector

female flange connector, M12 x 1

Flange housing

metal, CuZn, nickel-plated

Coupling nut/screw

metal, CuZn, nickel-plated

Contact carriers

plastic, PA 6 GF, black

Contacts

metal, CuZn, gold-plated

Seal

FPM/FKM

Screw-in thread seal

plastic, NBR

Polarity

4-pole

Ampacity

4 A

Rated voltage

max. 250 V

Polarity

5-pole

Ampacity

4 A

Rated voltage

max. 60 V

Insulation resistance

$\geq 10^9 \Omega$

Forward resistance

$\leq 5 \text{ m}\Omega$

Pollution degree

3

Ambient temperature Connector

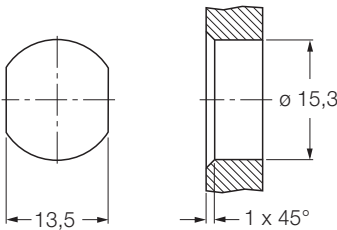
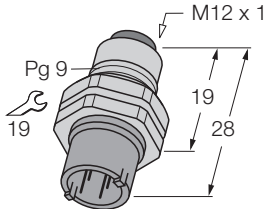
-30 ... +90 °C

Degree of protection

IP67, only in screwed status

Mechanical lifespan

min. 100 contact durability

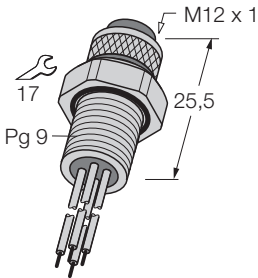


		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole	Wire-construction	FKFDH4 8006600
5-pole		FKFDH5 8006596

M12 x 1 - Round Connector
Female Flange Connector with Turnable Connection,
Screw In Thread PG9



Connector	female flange connector, M12 x 1
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, gold-plated
Seal	FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



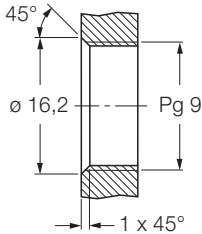
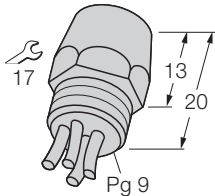
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
3-pole 	PVC 3 x 0.34 mm ²	FKM3-0,5 8008472
4-pole 	PVC 4 x 0.34 mm ²	FKM4-0,5 8008473

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Female Flange Connector with Wire, Specially
Useable for Application in the Food & Beverage-
Industry, Screw In Thread PG9



Connector	female flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PVC, grey
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +70 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability

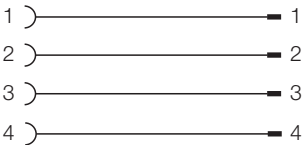
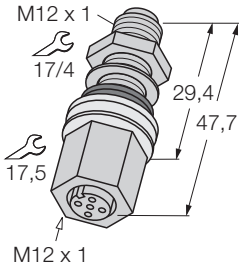


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 	PVC 4 x 0.34 mm ²	FB-FK4-0,5 8024474
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	FB-FK5-0,5 8024475

M12 x 1 - Round connector Feed-Through Connection



Connector	female / male feed-through connector, M12 x 1, 4-pole
Housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, yellow
Contacts	metal, CuZn, gold-plated
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-40 ... +80 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



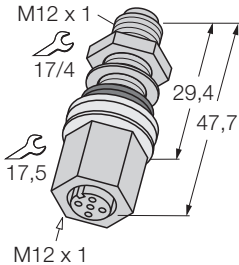
		Standard cable-length
		Type m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		
4-pole 		FKFS4/M12 8018404

Subject to change without notice Edition: 11.2008

M12 x 1 - Round connector
Feed-Through Connection



Connector	female / male feed-through con- nector, M12 x 1, 5-pole
Housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, yellow
Contacts	metal, CuZn, gold-plated
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-40 ... +80 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



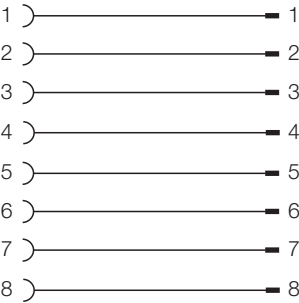
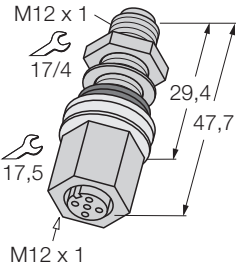
		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
5-pole 		
		FKFS4.5/M12 8018405

Subject to change without notice Edition: 11.2008

M12 x 1 - Round connector
Feed-Through Connection



Connector	female / male feed-through con- nector, M12 x 1, 8-pole
Housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, yellow
Contacts	metal, CuZn, gold-plated
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-40 ... +80 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



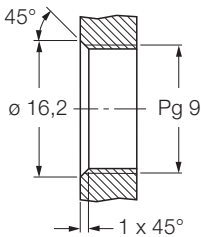
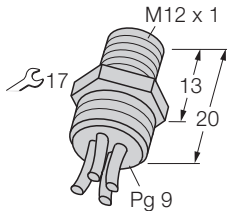
		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
8-pole 		
8-pole 		FKFS8/M12 8018410

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Screw In Thread PG9



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

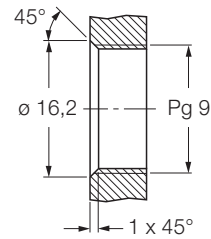
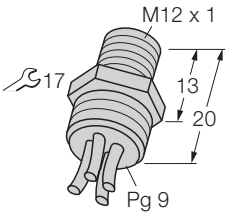


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.34 mm ²	FS3-0,5 8006559
4-pole 	PVC 4 x 0.34 mm ²	FS4-0,5 8006561
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	FS5-0,5 8006598

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Screw In Thread PG9



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



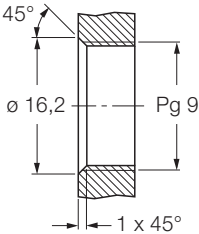
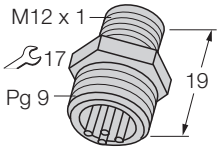
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
8-pole 	PVC 8 x0.25 mm ²	FS8-0,5 8011572

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Soldering-Contacts,
Screw In Thread PG9



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole, (pin 5 leading)
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

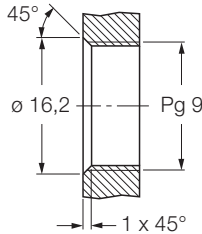
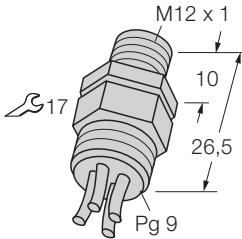


		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		FS4 8006560
5-pole, (pin 5 leading) 		FS5 8015334

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Adjustable,
Screw In Thread PG9



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



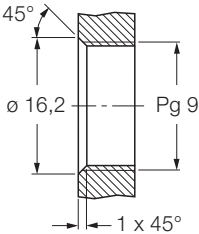
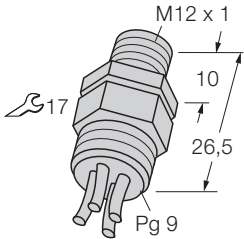
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
3-pole 	PVC 3 x 0.34 mm ²	FSD3-0,5 8006570
4-pole 	PVC 4 x 0.34 mm ²	FSD4-0,5 8006572
4-pole + ground 	PVC 4 x 0.34 mm ² / 1 x 0.5 mm ²	FSD5-0,5 8006599

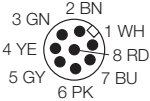
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Adjustable,
Screw In Thread PG9



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



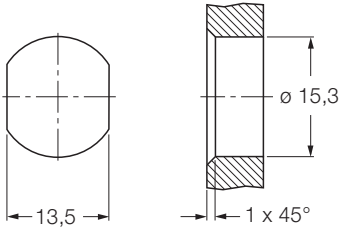
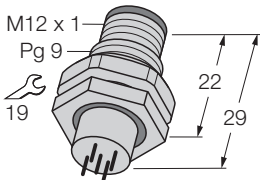
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole 	PVC 8 x 0.25 mm ²	FSD8-0,5 8025588

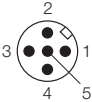
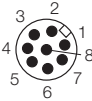
Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Print-Contacts,
Back Mount,
Fastening Screw Thread PG9



Connector	male flange connector, M12 x 1, with print-contacts
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole, (pin 5 leading)
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		FSFD4 8008496
5-pole, (pin 5 leading) 		FSFD5 8040117
8-pole 		FSFD8 8018371

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M12 x 1 - Round Connector
Male Flange Connector,
Back Mount, 1mm Tolerance Balance,
Fastening Screw Thread PG9



Connector

flange housing

Coupling nut/screw

Contact carriers

Contacts

Screw-in thread seal

male flange connector, M12 x 1

metal, CuZn, nickel-plated

metal, CuZn, nickel-plated

plastic, PA 6 GF, black

metal, CuZn, gold-plated

plastic, NBR

Polarity

Ampacity

Rated voltage

4-pole

4 A

max. 250 V

Polarity

Ampacity

Rated voltage

5-pole

4 A

max. 60 V

Insulation resistance

Forward resistance

Pollution degree

$\geq 10^9 \Omega$

$\leq 5 \text{ m}\Omega$

3

Ambient temperature Connector

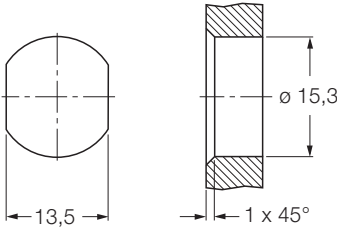
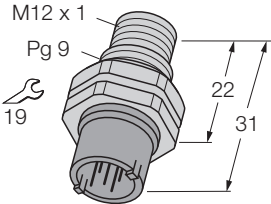
Degree of protection

Mechanical lifespan

-30 ... +90 °C

IP67, only in screwed status

min. 100 contact durability

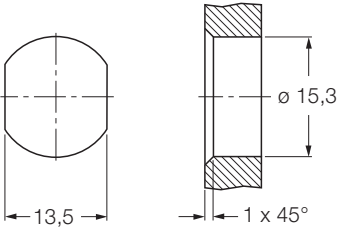
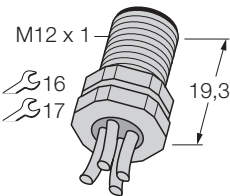


		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole	Wire-construction	FSFDH4 8006601
5-pole		FSFDH5 8011951

M12 x 1 - Round Connector
Male Flange Connector with Wire,
Back Mount,
Fastening Screw Thread M12 x 1



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



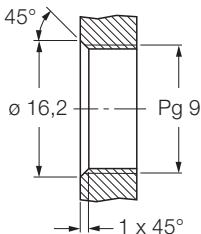
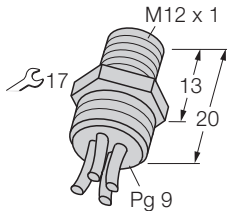
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole 	PVC 4 x 0.34 mm ²	FSF4-0,5 8013600
5-pole 	PVC 5 x 0.34 mm ²	FSF4.5-0,5 8008483

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Flange Connector with Wire, Specially
Useable for Application in the Food & Beverage-
Industry, Screw In Thread PG9



Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PVC, grey
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +70 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability

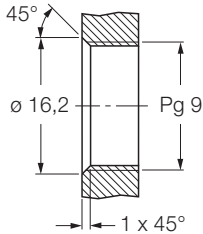
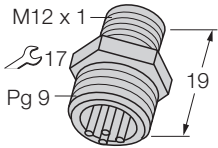


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 	PVC 4 x0.34 mm ²	FB-FS4-0,5 8024594
4-pole + ground 	PVC 4 x0.34 mm ² / 1 x0.5 mm ²	FB-FS5-0,5 8024591

M12 x 1 - Round Connector
Male Flange Connector with Soldering Contacts,
Specially Useable for Application in the Food &
Beverage-Industry, Screw In Thread PG9



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PVC, grey
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +70 °C
Degree of protection	IP67, IP69K, only screwed status
Mechanical lifespan	min. 100 contact durability



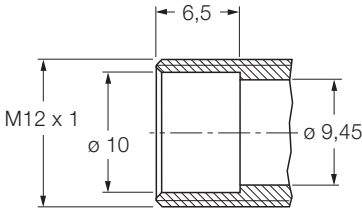
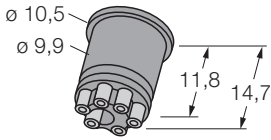
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		FB-FS4-L 8024619
4-pole + ground 		FB-FS5-L 8024596

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Insertion Connector



Connector	male insertion connector, M12 x 1
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



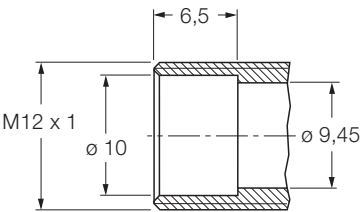
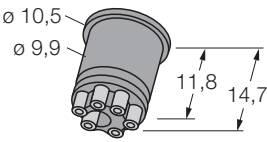
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		EWAS4 8008155
4-pole + ground 		EWAS5 8017592
5-pole 		EWAS4.5 8008156

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Male Insertion Connector



Connector	male insertion connector, M12 x 1
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	6-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
6-pole 		EWAS6 8009736
8-pole 		EWAS8 8009737

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M12 x 1 - Round Connector

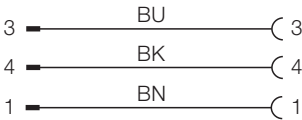
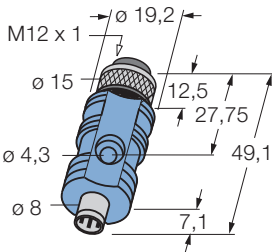
Adapter

Straight Female Connector M12 x 1 -

Straight Male Connector Ø 8mm, Snap-In



Junction box	adapter, 3-pole
Connector	female connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	male connector, Ø 8 mm, straight, snap-in
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

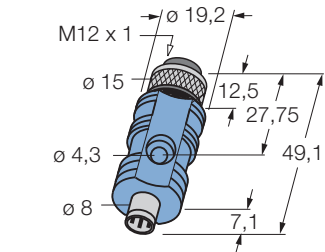


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
3-pole  3-pole 	Wire-construction	FKM3-ESP3S 8008083

**M12 x 1 - Round Connector
Adapter
Straight Female Connector M12 x 1 -
Straight Male Connector Ø 8mm, Snap-In**



Junction box	adapter, 4-pole
Connector	female connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	male connector, Ø 8 mm, straight, snap-in
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6-3-T, black
Contacts	metal, CuZn, gold-plated
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



4	—	BK	—	4
3	—	BU	—	3
2	—	WH	—	2
1	—	BN	—	1

		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole		
4-pole		FKM4-ESP4S 8008084

Subject to change without notice Edition: 11.2008

M12 x 1 - Round Connector
Adapter
Straight Male Connector M12 x 1 -
Straight Female Connector Ø 8mm

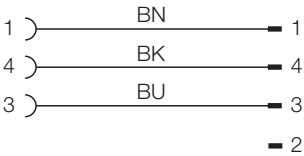
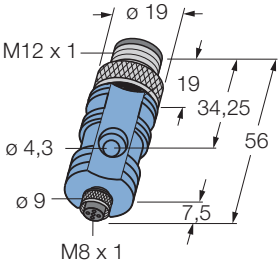


Junction box	adapter, 3-pole
Connector	male connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	female connector, M8 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM

Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V

Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3

Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
Wire-construction		
3-pole		
3-pole		FSM3-SKP3 8008079

**M12 x 1 - Round Connector
Adapter
Straight Male Connector M12 x 1 -
Straight Female Connector Ø 8mm**



Junction box

Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

adapter, 4-pole

male connector, M12 x 1, straight

plastic, TPU, blue

metal, CuZn, nickel-plated

plastic, TPU, black

metal, CuZn, gold-plated

Connector

Grip

Contact carriers

Contacts

Seal

female connector, M8 x 1, straight

plastic, TPU, blue

plastic, black

metal, CuZn, gold-plated

plastic, FKM/FPM

Polarity

Ampacity

Rated voltage

4-pole

4 A

max. 30 V

Insulation resistance

Forward resistance

Pollution degree

$\geq 10^9 \Omega$

$\leq 5 \text{ m}\Omega$

3

Ambient temperature junction

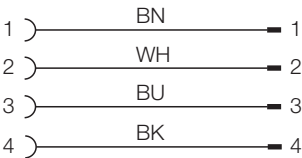
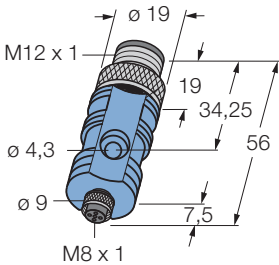
Degree of protection

Mechanical lifespan

-30 ... +90 °C

IP67

min. 100 contact durability



		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole		
4-pole		FSM4-SKP4 8008138

Subject to change without notice Edition: 11.2008



S12x1 Quick-Turn Connection

The Quick-Turn S12x1 provides full compatibility for your terminal devices. It replaces the conventional M12-round connector featuring an exceptional time advantage in installation.

S12x1 is a quick and safe connection for your industrial application.

Compatible with **all** M12x1 threads | 85% less installation time



Safe acoustic and haptic locking indication-signal



High cohesion in locked condition



Dust- and waterproof according to IEC 60529



Protected against water with high pressure and steam jet cleaning in accordance with IEC 60529



As standard, cable terminals converted with wire-end sleeves



Coupling straight	3.1 – 3.3

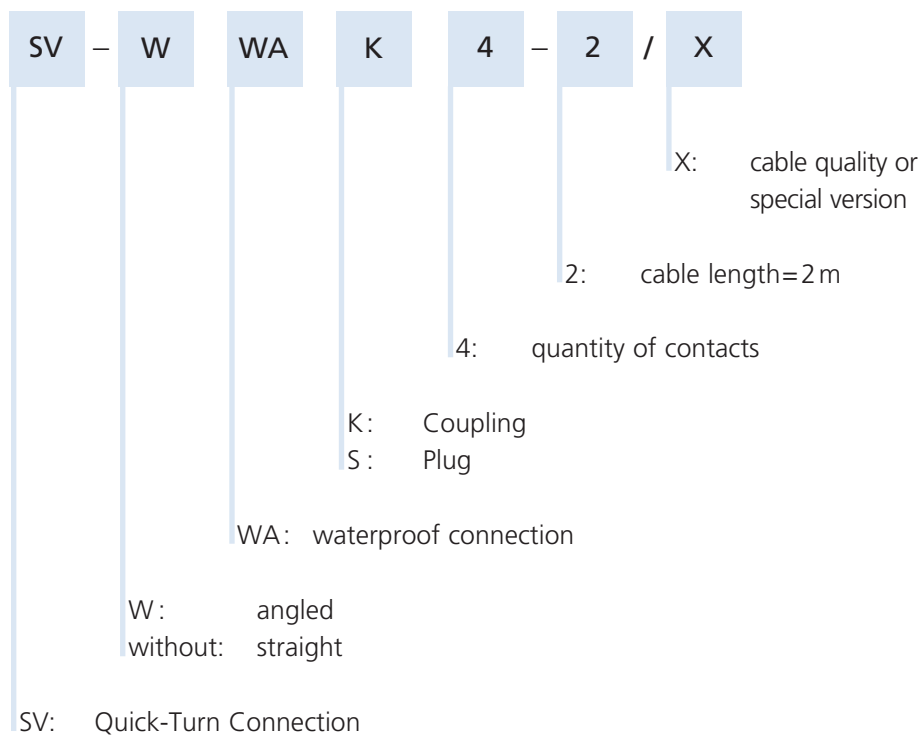
Coupling angled	3.4 – 3.6

Plug straight	3.7 – 3.9

Plug angled	3.10 – 3.12

Connecting-cables	3.13 – 3.22

Nomenclature S12x1-Quick-Turn Connection

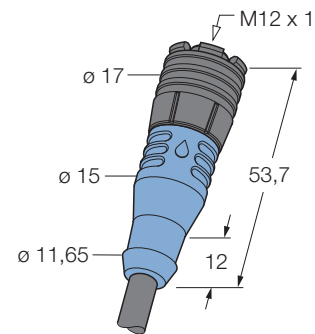


Non appropriate will be let out.

M12 x 1 - Quick-Turn-Connector S12 x 1, Straight Female Connector



Connector	female connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



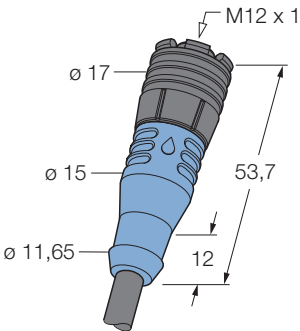
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	SV-WAK3-2/S90 8038701	SV-WAK3-5/S90 8038435	SV-WAK3-10/S90 8039430
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	SV-WAK3-2/S366 8039434	SV-WAK3-5/S366 8038445	SV-WAK3-10/S366 8039435
4-pole 	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	SV-WAK4-2/S90 8038523	SV-WAK4-5/S90 8038436	SV-WAK4-10/S90 8038576
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	SV-WAK4-2/S366 8038834	SV-WAK4-5/S366 8038336	SV-WAK4-10/S366 8038742

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M12 x 1 - Quick-Turn-Connector
S12 x 1, Straight Female Connector



Connector	female connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

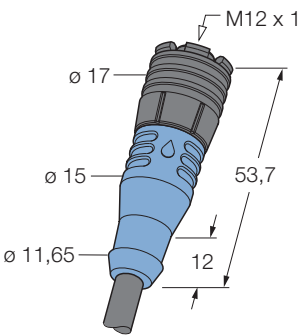


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
4-pole + ground 	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	SV-WAK5-2/S90 8039428	SV-WAK5-5/S90 8038437	SV-WAK5-10/S90 8039429
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	SV-WAK5-2/S366 8039436	SV-WAK5-5/S366 8038446	SV-WAK5-10/S366 8039437
8-pole 	PUR/PVC, GY 8 x0.25 mm² / Ø 5.7 mm	SV-WAK8-2/S90 8038906	SV-WAK8-5/S90 8039552	SV-WAK8-10/S90 8039553
	PUR, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	SV-WAK8-2/S366 8039738	SV-WAK8-5/S366 8039739	SV-WAK8-10/S366 8039740

M12 x 1 - Quick-Turn-Connector
S12 x 1, Straight Female Connector



Connector	female connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



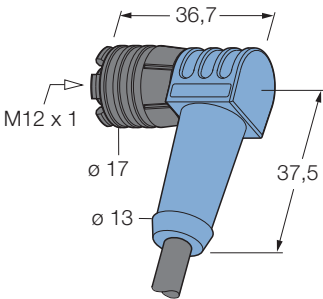
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
12-pole 	PUR, halogen-free, GY 12 x 0.14 mm ² / Ø 5.8 mm	SV-WAK12-2/S366 8039011	SV-WAK12-5/S366 8039742	SV-WAK12-10/S366 8039743

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M12 x 1 - Quick-Turn-Connector
S12 x 1, Angled Female Connector



Connector	female connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

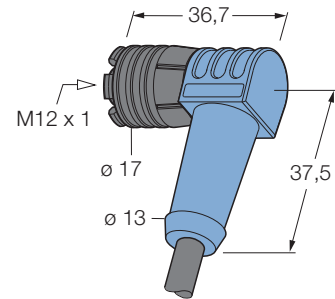


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PUR/PVC, GY 3 x0.34 mm² / Ø 5.2 mm	SV-WWAK3-2/S90 8038700	SV-WWAK3-5/S90 8038438	SV-WWAK3-10/S90 8039431
	PUR, halogen-free, GY 3 x0.34 mm² / Ø 4.5 mm	SV-WWAK3-2/S366 8039438	SV-WWAK3-5/S366 8038447	SV-WWAK3-10/S366 8039439
4-pole 	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	SV-WWAK4-2/S90 8038524	SV-WWAK4-5/S90 8038449	SV-WWAK4-10/S90 8038575
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	SV-WWAK4-2/S366 8039047	SV-WWAK4-5/S366 8038337	SV-WWAK4-10/S366 8039440

M12 x 1 - Quick-Turn-Connector S12 x 1, Angled Female Connector



Connector	female connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



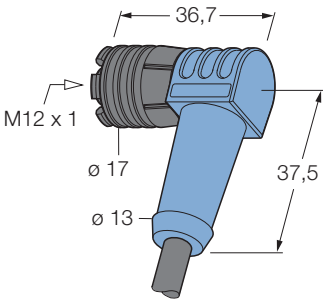
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole + ground 	PUR/PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	SV-WWAK5-2/S90 8039432	SV-WWAK5-5/S90 8038439	SV-WWAK5-10/S90 8039433
	PUR, halogen-free, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	SV-WWAK5-2/S366 8039441	SV-WWAK5-5/S366 8038448	SV-WWAK5-10/S366 8039442
8-pole 	PUR/PVC, GY 8 x 0.25 mm ² / Ø 5.7 mm	SV-WWAK8-2/S90 8039728	SV-WWAK8-5/S90 8039729	SV-WWAK8-10/S90 8039730
	PUR, halogen-free, GY 8 x 0.25 mm ² / Ø 6.2 mm	SV-WWAK8-2/S366 8039747	SV-WWAK8-5/S366 8039748	SV-WWAK8-10/S366 8039749

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M12 x 1 - Quick-Turn-Connector
S12 x 1, Angled Female Connector



Connector	female connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

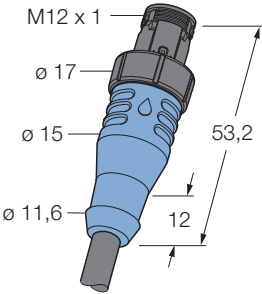


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PUR, halogen-free, GY 12 x 0.14 mm² / Ø 5.8 mm	SV-WWAK12-2/S366 8039750	SV-WWAK12-5/S366 8039751	SV-WWAK12-10/S366 8039752

M12 x 1 - Quick-Turn-Connector
S12 x 1, Straight Male Connector



Connector	male connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



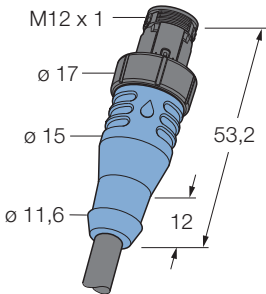
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	SV-WAS3-2/S90 8037406	SV-WAS3-5/S90 8039443	SV-WAS3-10/S90 8039444
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	SV-WAS3-2/S366 8038600	SV-WAS3-5/S366 8039453	SV-WAS3-10/S366 8039454
4-pole 	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	SV-WAS4-2/S90 8036446	SV-WAS4-5/S90 8039376	SV-WAS4-10/S90 8039445
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	SV-WAS4-2/S366 8038603	SV-WAS4-5/S366 8039374	SV-WAS4-10/S366 8039455

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M12 x 1 - Quick-Turn-Connector
S12 x 1, Straight Male Connector



Connector	male connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

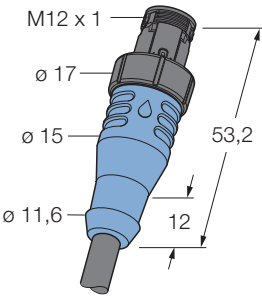


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
4-pole + ground 	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	SV-WAS5-2/S90 8037152	SV-WAS5-5/S90 8039446	SV-WAS5-10/S90 8039447
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	SV-WAS5-2/S366 8038610	SV-WAS5-5/S366 8039456	SV-WAS5-10/S366 8039457
8-pole 	PUR/PVC, GY 8 x0.25 mm² / Ø 5.7 mm	SV-WAS8-2/S90 8039756	SV-WAS8-5/S90 8039757	SV-WAS8-10/S90 8039758
	PUR, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	SV-WAS8-2/S366 8039774	SV-WAS8-5/S366 8039775	SV-WAS8-10/S366 8039776

M12 x 1 - Quick-Turn-Connector
S12 x 1, Straight Male Connector



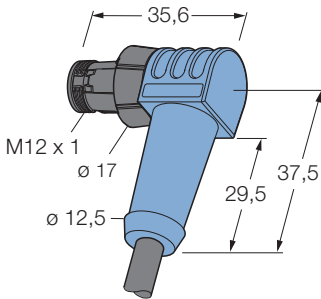
Connector	male connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

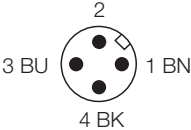


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
		Order-number		
12-pole 	PUR, halogen-free, GY	SV-WAS12-2/S366	SV-WAS12-5/S366	SV-WAS12-10/S366
	12 x0.14 mm² / Ø 5.8 mm	8039777	8039778	8039779

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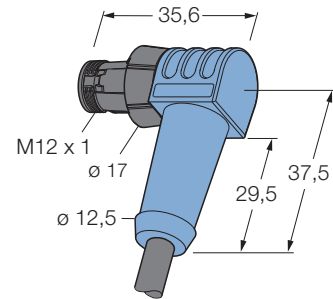
Connector	male connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PUR/PVC, GY 3 x0.34 mm² / Ø 5.2 mm	SV-WWAS3-2/S90 8037429	SV-WWAS3-5/S90 8039448	SV-WWAS3-10/S90 8039449
	PUR, halogen-free, GY 3 x0.34 mm² / Ø 4.5 mm	SV-WWAS3-2/S366 8038613	SV-WWAS3-5/S366 8039458	SV-WWAS3-10/S366 8039461
4-pole 	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	SV-WWAS4-2/S90 8037430	SV-WWAS4-5/S90 8039377	SV-WWAS4-10/S90 8039450
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	SV-WWAS4-2/S366 8038616	SV-WWAS4-5/S366 8039375	SV-WWAS4-10/S366 8039462

M12 x 1 - Quick-Turn-Connector S12 x 1, Angled Male Connector

Connector	male connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

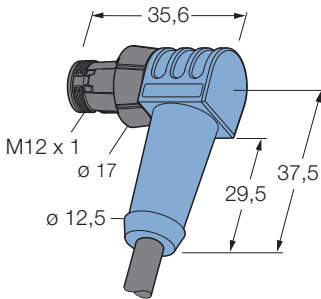


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole + ground 	PUR/PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	SV-WWAS5-2/S90 8037431	SV-WWAS5-5/S90 8039451	SV-WWAS5-10/S90 8039452
	PUR, halogen-free, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	SV-WWAS5-2/S366 8038622	SV-WWAS5-5/S366 8039463	SV-WWAS5-10/S366 8039464
8-pole 	PUR/PVC, GY 8 x 0.25 mm ² / Ø 5.7 mm	SV-WWAS8-2/S90 8039765	SV-WWAS8-5/S90 8039766	SV-WWAS8-10/S90 8039767
	PUR, halogen-free, GY 8 x 0.25 mm ² / Ø 6.2 mm	SV-WWAS8-2/S366 8039783	SV-WWAS8-5/S366 8039784	SV-WWAS8-10/S366 8039785

M12 x 1 - Quick-Turn-Connector
S12 x 1, Angled Male Connector



Connector	male connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
12-pole 	PUR, halogen-free, GY 12 x0.14 mm² / Ø 5.8 mm	SV-WWAS12-2/S366 8039786	SV-WWAS12-5/S366 8039787	SV-WWAS12-10/S366 8039788

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M12 x 1 - Quick-Turn-Connector
S12 x 1, Straight Female Connector -
S12 x 1, Straight Male Connector

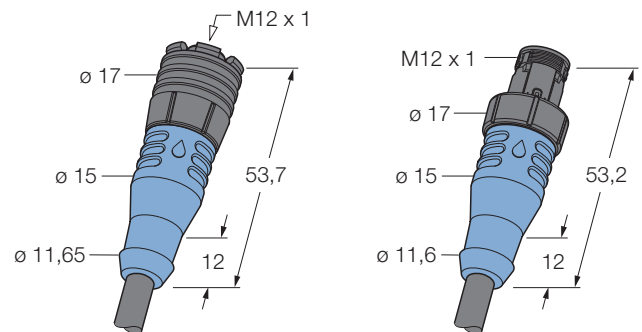


Connector female connector, S12 x 1 push-pull-locking system, straight
 Grip plastic, TPU, blue
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM
 Interlocking sleeve plastic, PBT, black

Connector male connector, S12 x 1 push-pull-locking system, straight
 Grip plastic, TPU, blue
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Interlocking sleeve plastic, PBT, black

Rated voltage max. 250 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +80 °C
 Degree of protection IP67, IP69K, only when plugged in
 Mechanical lifespan min. 100 contact durability

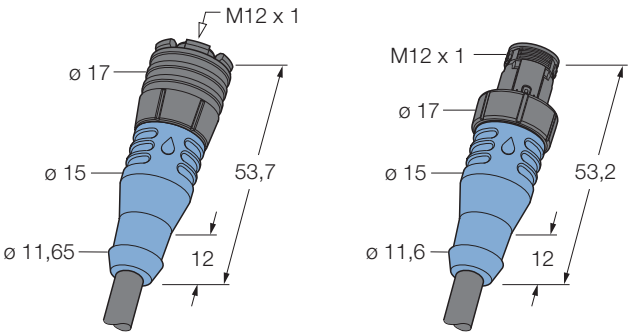


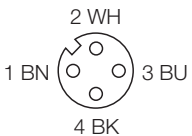
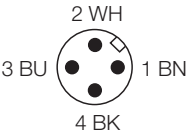
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	SV-WAK3-2-SV-WAS3/S90 8039591	...-5-... 8039592	...-10-... 8039641
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	SV-WAK3-2-SV-WAS3/S366 8039665	...-5-... 8039667	...-10-... 8039668
3-pole 				

M12 x 1 - Quick-Turn-Connector
S12 x 1, Straight Female Connector -
S12 x 1, Straight Male Connector



Connector	female connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT, black
Connector	male connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT, black
Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole  4-pole 	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	SV-WAK4-2-SV-WAS4/S90 8039642	...-5-... 8039644	...-10-... 8039646
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	SV-WAK4-2-SV-WAS4/S366 8039670	...-5-... 8039671	...-10-... 8039672

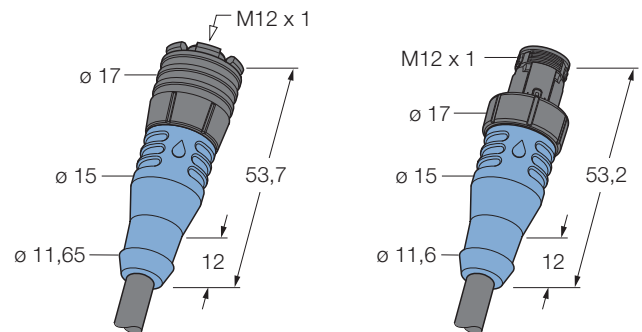
M12 x 1 - Quick-Turn-Connector
S12 x 1, Straight Female Connector -
S12 x 1, Straight Male Connector

Connector female connector, S12 x 1 push-pull-locking system, straight
 Grip plastic, TPU, blue
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM
 Interlocking sleeve plastic, PBT, black

Connector male connector, S12 x 1 push-pull-locking system, straight
 Grip plastic, TPU, blue
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Interlocking sleeve plastic, PBT, black

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +80 °C
 Degree of protection IP67, IP69K, only when plugged in
 Mechanical lifespan min. 100 contact durability

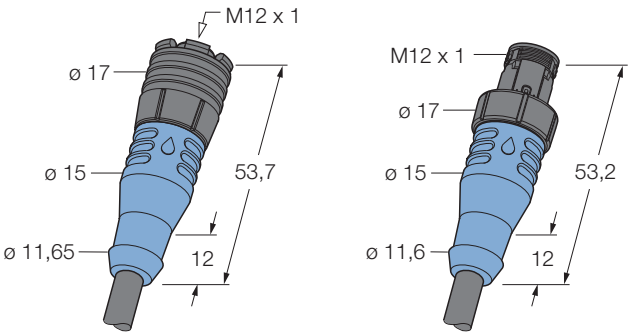


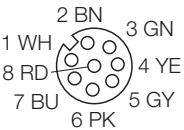
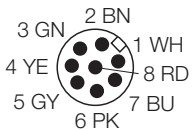
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole + ground 4-pole + ground 	PUR/PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	SV-WAK5-2-SV-WAS5/S90 8039648	...-5-... 8039649	...-10-... 8039650
	PUR, halogen-free, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	SV-WAK5-2-SV-WAS5/S366 8039673	...-5-... 8039674	...-10-... 8039675

M12 x 1 - Quick-Turn-Connector
S12 x 1, Straight Female Connector -
S12 x 1, Straight Male Connector



Connector	female connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT, black
Connector	male connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT, black
Rated voltage	max. 30 V
Ampacity	2 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

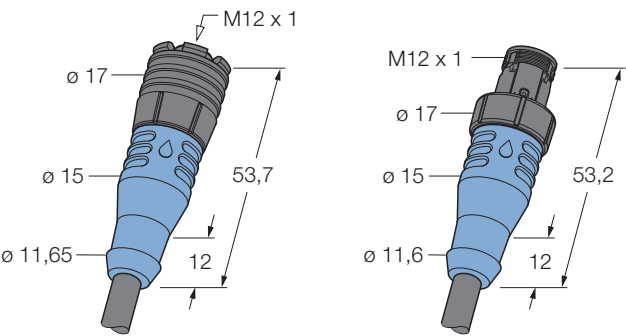


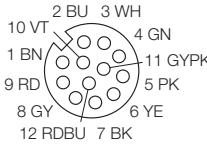
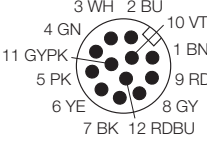
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
8-pole  8-pole 	PUR/PVC, GY 8 x0.25 mm² / Ø 5.7 mm	SV-WAK8-2-SV-WAS8/S90 8039654	...-5-... 8039655	...-10-... 8039657
	PUR, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	SV-WAK8-2-SV-WAS8/S366 8039684	...-5-... 8039685	...-10-... 8039686

M12 x 1 - Quick-Turn-Connector
S12 x 1, Straight Female Connector -
S12 x 1, Straight Male Connector



Connector	female connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT, black
Connector	male connector, S12 x 1 push-pull-locking system, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT, black
Rated voltage	max. 30 V
Ampacity	1.5 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

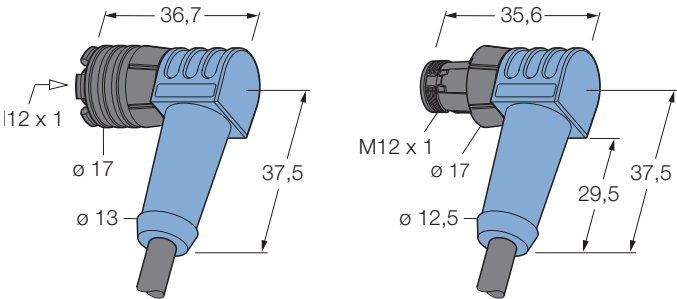


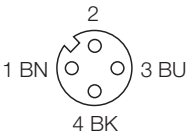
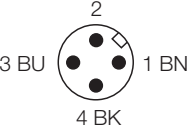
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
	Wire-construction			
12-pole  12-pole 	PUR, halogen-free, GY 12 x 0.14 mm ² / Ø 5.8 mm	SV-WAK12-2-SV-WAS12/S366 8039687	...-5-... 8039688	...-10-... 8039689

M12 x 1 - Quick-Turn-Connector
S12 x 1, Angled Female Connector -
S12 x 1, Angled Male Connector



Connector	female connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT, black
Connector	male connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT, black
Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole  3-pole 	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	SV-WWAK3-2-SV-WWAS3/S90 8039590	...-5-... 8039599	...-10-... 8039611
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	SV-WWAK3-2-SV-WWAS3/S366 8039617	...-5-... 8039623	...-10-... 8039629

M12 x 1 - Quick-Turn-Connector S12 x 1, Angled Female Connector - S12 x 1, Angled Male Connector

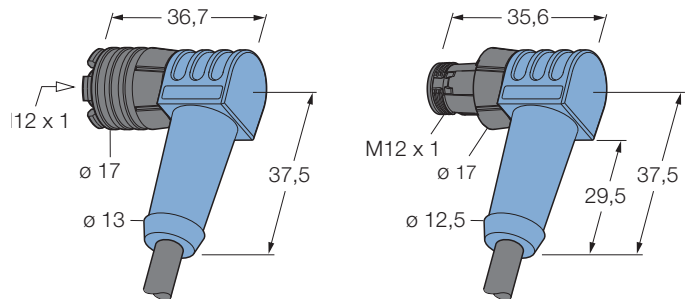


Connector female connector, S12 x 1 push-pull-locking system, angled
Grip plastic, TPU, blue
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM
Interlocking sleeve plastic, PBT, black

Connector male connector, S12 x 1 push-pull-locking system, angled
Grip plastic, TPU, blue
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Interlocking sleeve plastic, PBT, black

Rated voltage max. 250 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

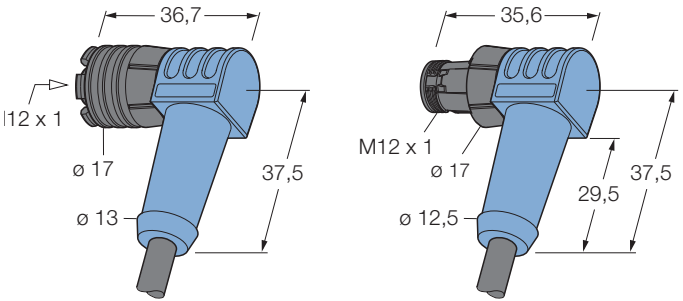
Ambient temperature Connector -30 ... +80 °C
Degree of protection IP67, IP69K, only when plugged in
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole 	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	SV-WWAK4-2-SV-WWAS4/S90 8039594	...-5-... 8039600	...-10-... 8039612
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	SV-WWAK4-2-SV-WWAS4/S366 8039618	...-5-... 8039624	...-10-... 8039630
4-pole 				

M12 x 1 - Quick-Turn-Connector
S12 x 1, Angled Female Connector -
S12 x 1, Angled Male Connector

Connector	female connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT, black
Connector	male connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT, black
Rated voltage	max. 60 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
4-pole + ground 4-pole + ground	PUR/PVC, GY	SV-WWAK5-2-SV-WWAS5/S90	...-5-...	...-10-...
	4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	8039595	8039601	8039613
	PUR, halogen-free, GY	SV-WWAK5-2-SV-WWAS5/S366	...-5-...	...-10-...
	4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	8039619	8039625	8039631

M12 x 1 - Quick-Turn-Connector S12 x 1, Angled Female Connector - S12 x 1, Angled Male Connector

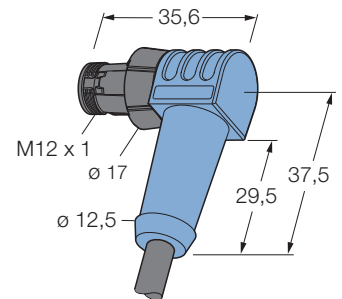
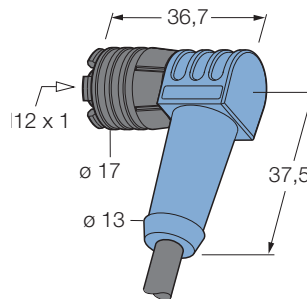


Connector female connector, S12 x 1 push-pull-locking system, angled
Grip plastic, TPU, blue
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM
Interlocking sleeve plastic, PBT, black

Connector male connector, S12 x 1 push-pull-locking system, angled
Grip plastic, TPU, blue
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Interlocking sleeve plastic, PBT, black

Rated voltage max. 30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +80 °C
Degree of protection IP67, IP69K, only when plugged in
Mechanical lifespan min. 100 contact durability

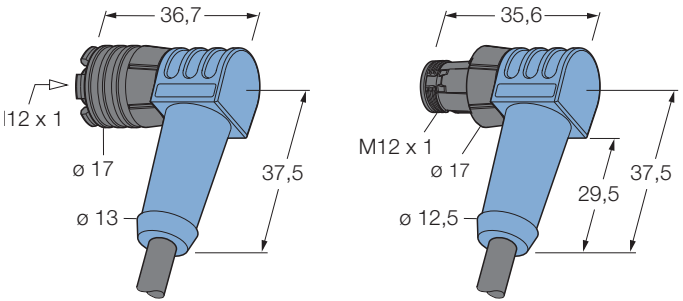


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
8-pole 8-pole 	PUR/PVC, GY 8 x 0.25 mm ² / Ø 5.7 mm	SV-WWAK8-2-SV-WWAS8/S90 8039597	...-5-... 8039603	...-10-... 8039615
	PUR, halogen-free, GY 8 x 0.25 mm ² / Ø 6.2 mm	SV-WWAK8-2-SV-WWAS8/S366 8039621	...-5-... 8039627	...-10-... 8039633

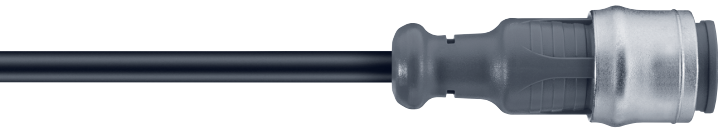
M12 x 1 - Quick-Turn-Connector
S12 x 1, Angled Female Connector -
S12 x 1, Angled Male Connector



Connector	female connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Interlocking sleeve	plastic, PBT, black
Connector	male connector, S12 x 1 push-pull-locking system, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	plastic, PBT, black
Rated voltage	max. 30 V
Ampacity	1.5 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +80 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PUR, halogen-free, GY 12 x 0.14 mm² / Ø 5.8 mm	SV-WWAK12-2-SV-WWAS12/S366 8039622	...-5-... 8039628	...-10-... 8039634
12-pole 				



M 12 push-pull

M12 push-pull is the further development of the traditional M12x1 round connector with identical contact configuration and protection degree IP67 and IP69K. The quick-connect system is available in various pole versions

Short installation time



Dust- and waterproof according to IEC 60529

IP67

Protected against water with high pressure and steam jet cleaning in accordance with IEC 60529



As standard, cable terminals converted with wire-end sleeves



Coupling straight 4.1 – 4.2

Coupling angled 4.3 – 4.6

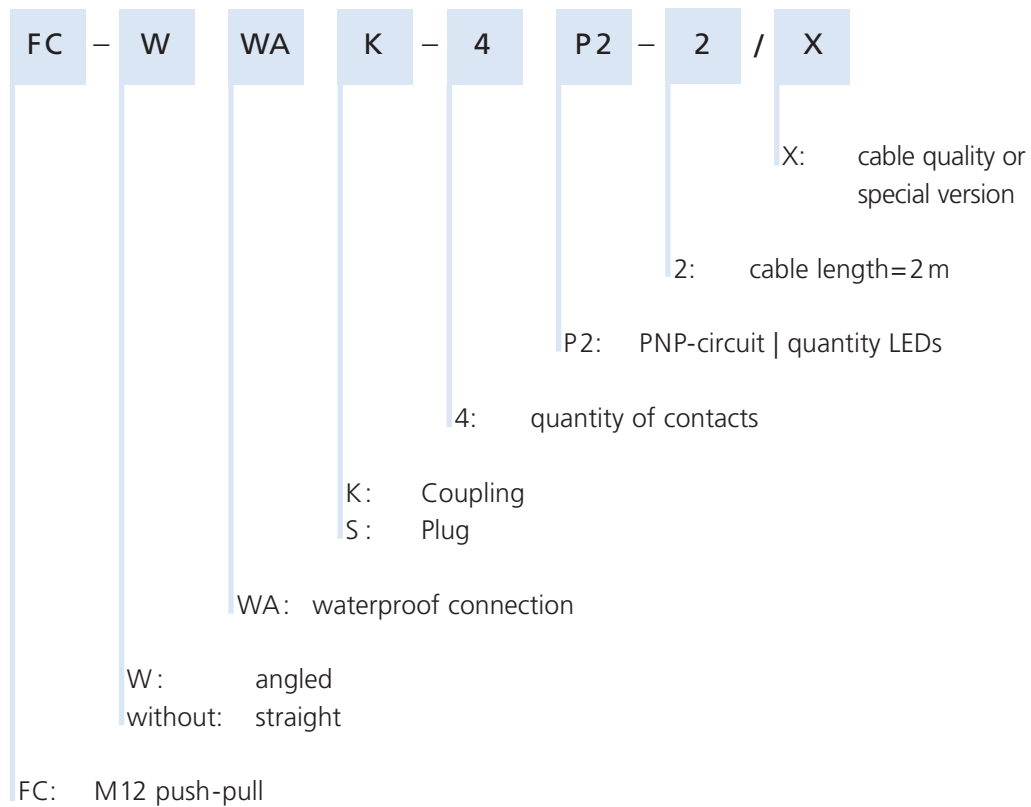
Plug straight 4.7 – 4.8

Connecting cables 4.9 – 4.15

M12 push-pull sensor-adapter 4.16

M12 push-pull connection piece 4.17

Nomenclature M12 push-pull

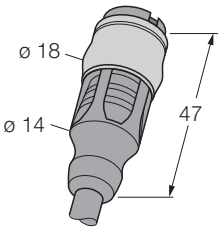


Non appropriate will be let out.

M12 x 1 Quick-Turn-Connector
M12 Push-Pull
Straight Female Connector



Connector	female connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



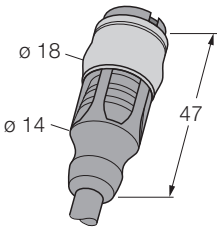
other cable lengths and qualities on request		Standard cable-length		
Coding	Cable-quality	2 m	5 m	10 m
		Type-designation Order-number		
3-pole 	PVC, BK 3 x 0.34 mm² / Ø 5 mm	FC-WAK3-2/S2010 8025124	FC-WAK3-5/S2010 8025084	FC-WAK3-10/S2010 8025125
	PUR, halogen-free, BK 3 x 0.34 mm² / Ø 4.3 mm	FC-WAK3-2/S2020 8025135	FC-WAK3-5/S2020 8025136	FC-WAK3-10/S2020 8025137
4-pole 	PVC, BK 4 x 0.34 mm² / Ø 5.2 mm	FC-WAK4-2/S2010 8025126	FC-WAK4-5/S2010 8025127	FC-WAK4-10/S2010 8025128
	PUR, halogen-free, BK 4 x 0.34 mm² / Ø 4.7 mm	FC-WAK4-2/S2020 8020475	FC-WAK4-5/S2020 8025139	FC-WAK4-10/S2020 8025140

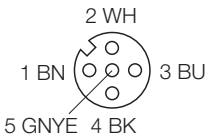
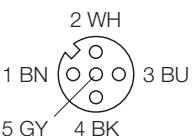
M12 x 1 Quick-Turn-Connector

M12 Push-Pull

Straight Female Connector

Connector	female connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

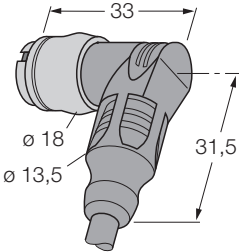


other cable lengths and qualities on request		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
		Order-number		
4-pole + ground 	PVC, BK 4 x0.5 mm² / 1 x0.5 mm² / Ø 6.2 mm	FC-WAK5-2/S2010 8025132	FC-WAK5-5/S2010 8025134	FC-WAK5-10/S2010 8025133
	PUR, halogen-free, BK 4 x0.5 mm² / 1 x0.5 mm² / Ø 5.4 mm	FC-WAK5-2/S2020 8025152	FC-WAK5-5/S2020 8025153	FC-WAK5-10/S2020 8025154
5-pole 	PVC, BK 5 x0.34 mm² / Ø 5.7 mm	FC-WAK4.5-2/S2010 8025129	FC-WAK4.5-5/S2010 8025130	FC-WAK4.5-10/S2010 8025131
	PUR, halogen-free, BK 5 x0.34 mm² / Ø 5 mm	FC-WAK4.5-2/S2020 8025149	FC-WAK4.5-5/S2020 8025150	FC-WAK4.5-10/S2020 8025151

M12 x 1 Quick-Turn-Connector
M12 Push-Pull
Angled Female Connector



Connector	female connector, M12 push-pull-locking system, angled
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

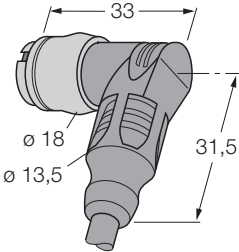


other cable lengths and qualities on request

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, BK 3 x 0.34 mm ² / Ø 5 mm	FC-WWAK3-2/S2010 8026875	FC-WWAK3-5/S2010 8026876	FC-WWAK3-10/S2010 8026870
	PUR, halogen-free, BK 3 x 0.34 mm ² / Ø 4.3 mm	FC-WWAK3-2/S2020 8026911	FC-WWAK3-5/S2020 8026912	FC-WWAK3-10/S2020 8026913
4-pole 	PVC, BK 4 x 0.34 mm ² / Ø 5.2 mm	FC-WWAK4-2/S2010 8026881	FC-WWAK4-5/S2010 8026882	FC-WWAK4-10/S2010 8026883
	PUR, halogen-free, BK 4 x 0.34 mm ² / Ø 4.7 mm	FC-WWAK4-2/S2020 8026918	FC-WWAK4-5/S2020 8026919	FC-WWAK4-10/S2020 8026920

Subject to change without notice Edition: 11.2008

Connector	female connector, M12 push-pull-locking system, angled
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

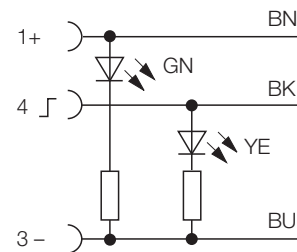
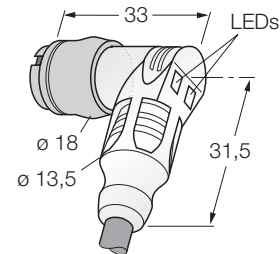


other cable lengths and qualities on request		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
		Order-number		
4-pole + ground	PVC, BK	FC-WWAK5-2/S2010	FC-WWAK5-5/S2010	FC-WWAK5-10/S2010
	4 x0.5 mm² / 1 x0.5 mm² / Ø 6.2 mm	8026895	8026896	8026897
	PUR, halogen-free, BK	FC-WWAK5-2/S2020	FC-WWAK5-5/S2020	FC-WWAK5-10/S2020
	4 x0.5 mm² / 1 x0.5 mm² / Ø 5.4 mm	8026932	8026933	8026934
5-pole	PVC, BK	FC-WWAK4.5-2/S2010	FC-WWAK4.5-5/S2010	FC-WWAK4.5-10/S2010
	5 x0.34 mm² / Ø 5.7 mm	8026888	8026889	8026890
	PUR, halogen-free, BK	FC-WWAK4.5-2/S2020	FC-WWAK4.5-5/S2020	FC-WWAK4.5-10/S2020
	5 x0.34 mm² / Ø 5 mm	8026925	8026926	8026927

M12 x 1 Quick-Turn-Connector M12 Push-Pull Angled Female Connector, with LED



Connector	female connector, M12 push-pull-locking system, angled
Grip	plastic, TPU, transparent
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	10 ...30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



other cable lengths and qualities on request

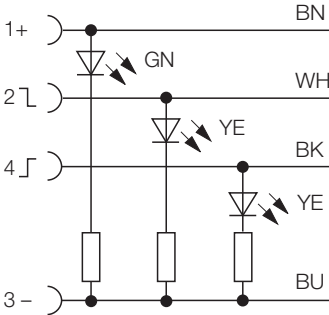
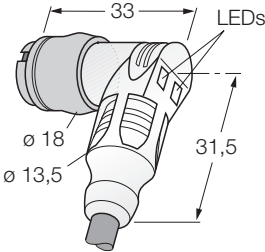
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, BK 3 x 0.34 mm ² / Ø 5 mm	FC-WWAK3P2-2/S2010 8026939	FC-WWAK3P2-5/S2010 8026940	FC-WWAK3P2-10/S2010 8026941
	PUR, halogen-free, BK 3 x 0.34 mm ² / Ø 4.3 mm	FC-WWAK3P2-2/S2020 8026965	FC-WWAK3P2-5/S2020 8026966	FC-WWAK3P2-10/S2020 8026967

Subject to change without notice Edition: 11.2008

M12 x 1 Quick-Turn-Connector
M12 Push-Pull
Angled Female Connector, with LED



Connector	female connector, M12 push-pull-locking system, angled
Grip	plastic, TPU, transparent
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Polarity	4-pole
Ampacity	4 A
Rated voltage	10 ...30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow/yellow
Switching function	pnp
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



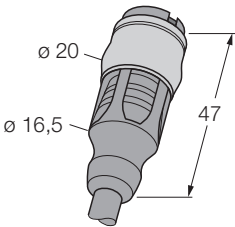
other cable lengths and qualities on request

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, BK 4 x0.34 mm² / Ø 5.2 mm	FC-WWAK4P3-2/S2010 8026953	FC-WWAK4P3-5/S2010 8026954	FC-WWAK4P3-10/S2010 8026955
	PUR, halogen-free, BK 4 x0.34 mm² / Ø 4.7 mm	FC-WWAK4P3-2/S2020 8026981	FC-WWAK4P3-5/S2020 8026982	FC-WWAK4P3-10/S2020 8026983

M12 x 1 Quick-Turn-Connector
M12 Push-Pull
Straight Male Connector



Connector	male connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability

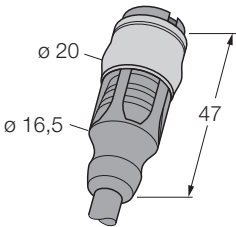


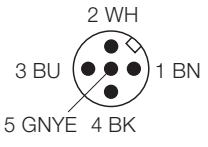
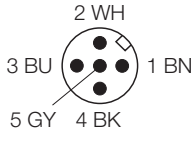
other cable lengths and qualities on request

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, BK 3 x 0.34 mm ² / Ø 5 mm	FC-WAS3-2/S2010 8027134	FC-WAS3-5/S2010 8027135	FC-WAS3-10/S2010 8027136
	PUR, halogen-free, BK 3 x 0.34 mm ² / Ø 4.3 mm	FC-WAS3-2/S2020 8027146	FC-WAS3-5/S2020 8027147	FC-WAS3-10/S2020 8027148
4-pole 	PVC, BK 4 x 0.34 mm ² / Ø 5.2 mm	FC-WAS4-2/S2010 8027137	FC-WAS4-5/S2010 8027138	FC-WAS4-10/S2010 8027139
	PUR, halogen-free, BK 4 x 0.34 mm ² / Ø 4.7 mm	FC-WAS4-2/S2020 8024476	FC-WAS4-5/S2020 8027149	FC-WAS4-10/S2020 8027150

Subject to change without notice Edition: 11.2008

Connector	male connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Polarity	4-pole + ground
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



other cable lengths and qualities on request		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole + ground 	PVC, BK 4 x0.5 mm² / 1 x0.5 mm² / Ø 6.2 mm	FC-WAS5-2/S2010 8027143	FC-WAS5-5/S2010 8027144	FC-WAS5-10/S2010 8027145
	PUR, halogen-free, BK 4 x0.5 mm² / 1 x0.5 mm² / Ø 5.4 mm	FC-WAS5-2/S2020 8020479	FC-WAS5-5/S2020 8027197	FC-WAS5-10/S2020 8027198
5-pole 	PVC, BK 5 x0.34 mm² / Ø 5.7 mm	FC-WAS4.5-2/S2010 8027140	FC-WAS4.5-5/S2010 8027141	FC-WAS4.5-10/S2010 8027142
	PUR, halogen-free, BK 5 x0.34 mm² / Ø 5 mm	FC-WAS4.5-2/S2020 8027151	FC-WAS4.5-5/S2020 8027153	FC-WAS4.5-10/S2020 8027154

M12 x 1 Quick-Turn-Connector

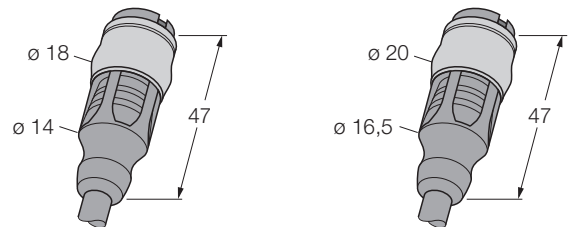
M12 Push-Pull

Straight Female Connector -

Straight Male Connector



Connector	female connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Connector	male connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



other cable lengths and qualities on request

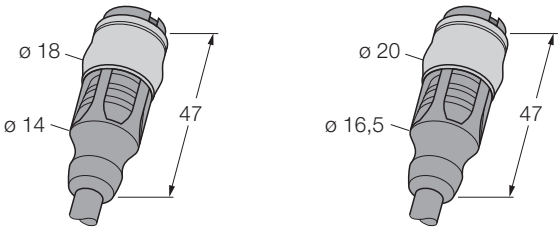
		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, BK 3 x 0.34 mm ² / Ø 5 mm	FC-WAK3-0,3-FC-WAS3/S2010 8027155	...-0,6-... 8027156	...-1-... 8027157
	PUR, halogen-free, BK 3 x 0.34 mm ² / Ø 4.3 mm	FC-WAK3-0,3-FC-WAS3/S2020 8027176	...-0,6-... 8027177	...-1-... 8027178
3-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, BK 3 x 0.34 mm ² / Ø 5 mm	FC-WAK3-1,5-FC-WAS3/S2010 8027158	...-2-... 8027159	...-5-... 8027160
	PUR, halogen-free, BK 3 x 0.34 mm ² / Ø 4.3 mm	FC-WAK3-1,5-FC-WAS3/S2020 8027179	...-2-... 8027180	...-5-... 8027181

Subject to change without notice Edition: 11.2008

M12 x 1 Quick-Turn-Connector
M12 Push-Pull
Straight Female Connector -
Straight Male Connector



Connector	female connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Connector	male connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



other cable lengths and qualities on request		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole 	PVC, BK 4 x0.34 mm² / Ø 5.2 mm	FC-WAK4-0,3-FC-WAS4/S2010 8027162	...-0,6-... 8027163	...-1-... 8027164
	PUR, halogen-free, BK 4 x0.34 mm² / Ø 4.7 mm	FC-WAK4-0,3-FC-WAS4/S2020 8027183	...-0,6-... 8027184	...-1-... 8027185
4-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, BK 4 x0.34 mm² / Ø 5.2 mm	FC-WAK4-1,5-FC-WAS4/S2010 8027165	...-2-... 8027166	...-5-... 8027167
	PUR, halogen-free, BK 4 x0.34 mm² / Ø 4.7 mm	FC-WAK4-1,5-FC-WAS4/S2020 8027186	...-2-... 8027187	...-5-... 8027188

M12 x 1 Quick-Turn-Connector

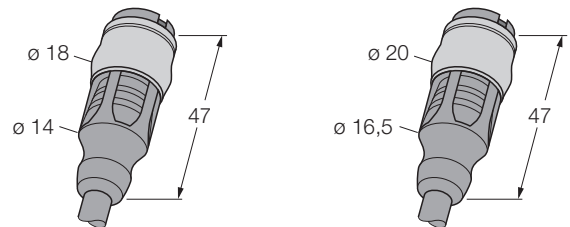
M12 Push-Pull

Straight Female Connector -

Straight Male Connector



Connector	female connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Connector	male connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Rated voltage	max. 60 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



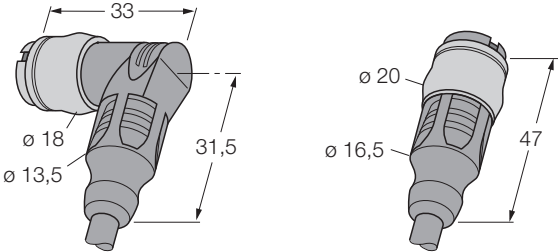
other cable lengths and qualities on request

		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole + ground 	PVC, BK 4 x 0.5 mm ² / 1 x 0.5 mm ² / Ø 6.2 mm	FC-WAK5-0,3-FC-WAS5/S2010 8027169	...-0,6-... 8027170	...-1-... 8027171
	PUR, halogen-free, BK 4 x 0.5 mm ² / 1 x 0.5 mm ² / Ø 5.4 mm	FC-WAK5-0,3-FC-WAS5/S2020 8027190	...-0,6-... 8027191	...-1-... 8027192
4-pole + ground 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, BK 4 x 0.5 mm ² / 1 x 0.5 mm ² / Ø 6.2 mm	FC-WAK5-1,5-FC-WAS5/S2010 8027172	...-2-... 8027174	...-5-... 8027173
	PUR, halogen-free, BK 4 x 0.5 mm ² / 1 x 0.5 mm ² / Ø 5.4 mm	FC-WAK5-1,5-FC-WAS5/S2020 8027193	...-2-... 8027194	...-5-... 8027195

M12 x 1 Quick-Turn-Connector
M12 Push-Pull
Angled Female Connector -
Straight Male Connector



Connector	female connector, M12 push-pull-locking system, angled
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Connector	male connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



other cable lengths and qualities on request		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, BK 3 x0.34 mm² / Ø 5 mm	FC-WWAK3-0,3-FC-WAS3/S2010 8027023	...-0,6-... 8027024	...-1-... 8027025
	PUR, halogen-free, BK 3 x0.34 mm² / Ø 4.3 mm	FC-WWAK3-0,3-FC-WAS3/S2020 8027038	...-0,6-... 8027039	...-1-... 8027040
3-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, BK 3 x0.34 mm² / Ø 5 mm	FC-WWAK3-1,5-FC-WAS3/S2010 8027026	...-2-... 8027027	...-5-... 8027028
	PUR, halogen-free, BK 3 x0.34 mm² / Ø 4.3 mm	FC-WWAK3-1,5-FC-WAS3/S2020 8027041	...-2-... 8027042	...-5-... 8027043

M12 Quick-Turn-Connector

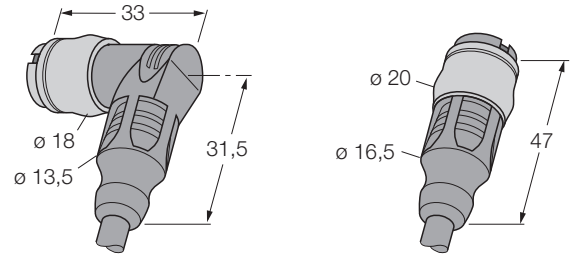
M12 Push-Pull

Angled Female Connector -

Straight Male Connector



Connector	female connector, M12 push-pull-locking system, angled
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Connector	male connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



other cable lengths and qualities on request

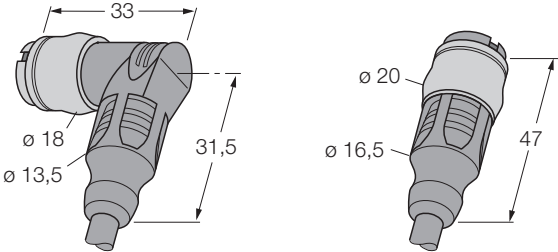
		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole 	PVC, BK 4 x 0.34 mm ² / Ø 5.2 mm	FC-WWAK4-0,3-FC-WAS4/S2010 8027030	...-0,6-... 8027032	...-1-... 8027033
	PUR, halogen-free, BK 4 x 0.34 mm ² / Ø 4.7 mm	FC-WWAK4-0,3-FC-WAS4/S2020 8027045	...-0,6-... 8027046	...-1-... 8027047
4-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, BK 4 x 0.34 mm ² / Ø 5.2 mm	FC-WWAK4-1,5-FC-WAS4/S2010 8027034	...-2-... 8027035	...-5-... 8027036
	PUR, halogen-free, BK 4 x 0.34 mm ² / Ø 4.7 mm	FC-WWAK4-1,5-FC-WAS4/S2020 8027048	...-2-... 8027049	...-5-... 8027050

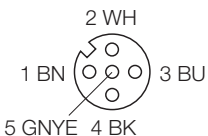
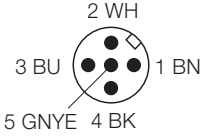
Subject to change without notice Edition: 11.2008

M12 x 1 Quick-Turn-Connector
M12 Push-Pull
Angled Female Connector -
Straight Male Connector



Connector	female connector, M12 push-pull-locking system, angled
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Connector	male connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Rated voltage	max. 60 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



other cable lengths and qualities on request		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole + ground 	PVC, BK 4 x0.5 mm² / 1 x0.5 mm² / Ø 6.2 mm	FC-WWAK5-0,3-FC-WAS5/S2010 8027052	...-0,6-... 8027053	...-1-... 8027054
	PUR, halogen-free, BK 4 x0.5 mm² / 1 x0.5 mm² / Ø 5.4 mm	FC-WWAK5-0,3-FC-WAS5/S2020 8027059	...-0,6-... 8027060	...-1-... 8027061
4-pole + ground 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, BK 4 x0.5 mm² / 1 x0.5 mm² / Ø 6.2 mm	FC-WWAK5-1,5-FC-WAS5/S2010 8027055	...-2-... 8027056	...-5-... 8027057
	PUR, halogen-free, BK 4 x0.5 mm² / 1 x0.5 mm² / Ø 5.4 mm	FC-WWAK5-1,5-FC-WAS5/S2020 8027062	...-2-... 8027063	...-5-... 8027064

M12 x 1 Quick-Turn-Connector

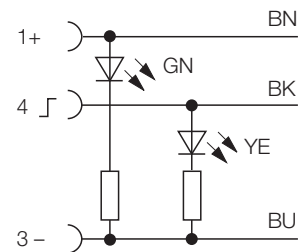
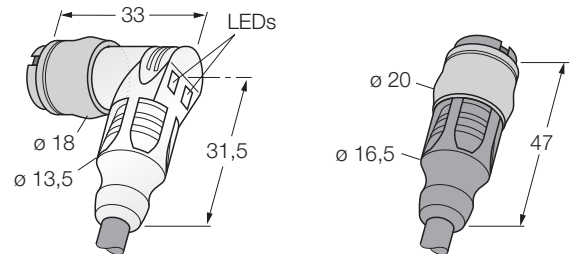
M12 Push-Pull

Angled Female Connector, with LED -

Straight Male Connector



Connector	female connector, M12 push-pull-locking system, angled
Grip	plastic, TPU, transparent
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Connector	male connector, M12 push-pull-locking system, straight
Grip	plastic, TPU, grey
Contact carriers	plastic, TPU, green
Contacts	metal, CuZn, gold-plated
Interlocking sleeve	metal, GD-Zn, nickel-plated
Rated voltage	10 ...30 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, IP69K, only when plugged in
Mechanical lifespan	min. 100 contact durability



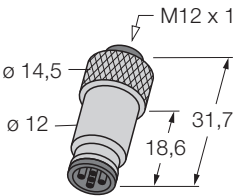
other cable lengths and qualities on request

		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, BK 3 x 0.34 mm ² / Ø 5 mm	FC-WWAK3P2-0,3-FC-WAS3/S2010 8027066	...-0,6-... 8027067	...-1-... 8027068
	PUR, halogen-free, BK 3 x 0.34 mm ² / Ø 4.3 mm	FC-WWAK3P2-0,3-WAS3/S2020 8027088	...-0,6-... 8027090	...-1-... 8027091
3-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, BK 3 x 0.34 mm ² / Ø 5 mm	FC-WWAK3P2-1,5-FC-WAS3/S2010 8027069	...-2-... 8027070	...-5-... 8027071
	PUR, halogen-free, BK 3 x 0.34 mm ² / Ø 4.3 mm	FC-WWAK3P2-1,5-WAS3/S2020 8027092	...-2-... 8027093	...-5-... 8027094

M12 x 1 Quick-Turn-Connector
M12 Push-Pull,
Sensor-Adapter

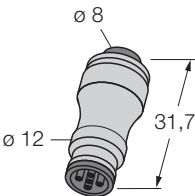


Junction box	adapter, 5-pole
Connector	female connector, M12 x 1, 5-pole, straight
Grip	brass, TPU, nickel-plated, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	brass, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	male connector, M12 x 1, 5-pole, straight
Grip	brass, nickel-plated, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA, black
Contacts	brass, CuZn, gold-plated
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
5-pole 		
5-pole 		Sensor-Adapter push-pull, M12 x 1 8027612

Junction box	adapter, 5-pole
Connector	female connector, M12 x 1, 5-pole, straight
Grip	brass, TPU, nickel-plated, silver
Contact carriers	plastic, TPU, black
Contacts	brass, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	male connector, M12 x 1, 5-pole, straight
Grip	brass, nickel-plated, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA, black
Contacts	brass, CuZn, gold-plated
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
5-pole 5-pole	Wire-construction	Adapter push-pull - Gender Bender 8027613



M8x1 | Ø8mm Round Connector

The small yet robust M8x1 round connector is ideally suited for compact and space limited industrial applications.

You can choose between pre-assembled and pre-moulded versions, flange connectors as well as field-wireable connectors ranging from 3- to 6-pole versions.

Available in M8x1
screwable



Available in Ø8mm
snap-in



360° shielded
Optimal shielding even at
high mechanical stresses



Dust- and waterproof
according to IEC 60529



As standard, cable
terminals converted
with wire-end sleeves



Coupling straight	5.1 – 5.8

Coupling angled	5.9 – 5.16

Plug straight	5.17 – 5.23

Plug angled	5.24 – 5.27

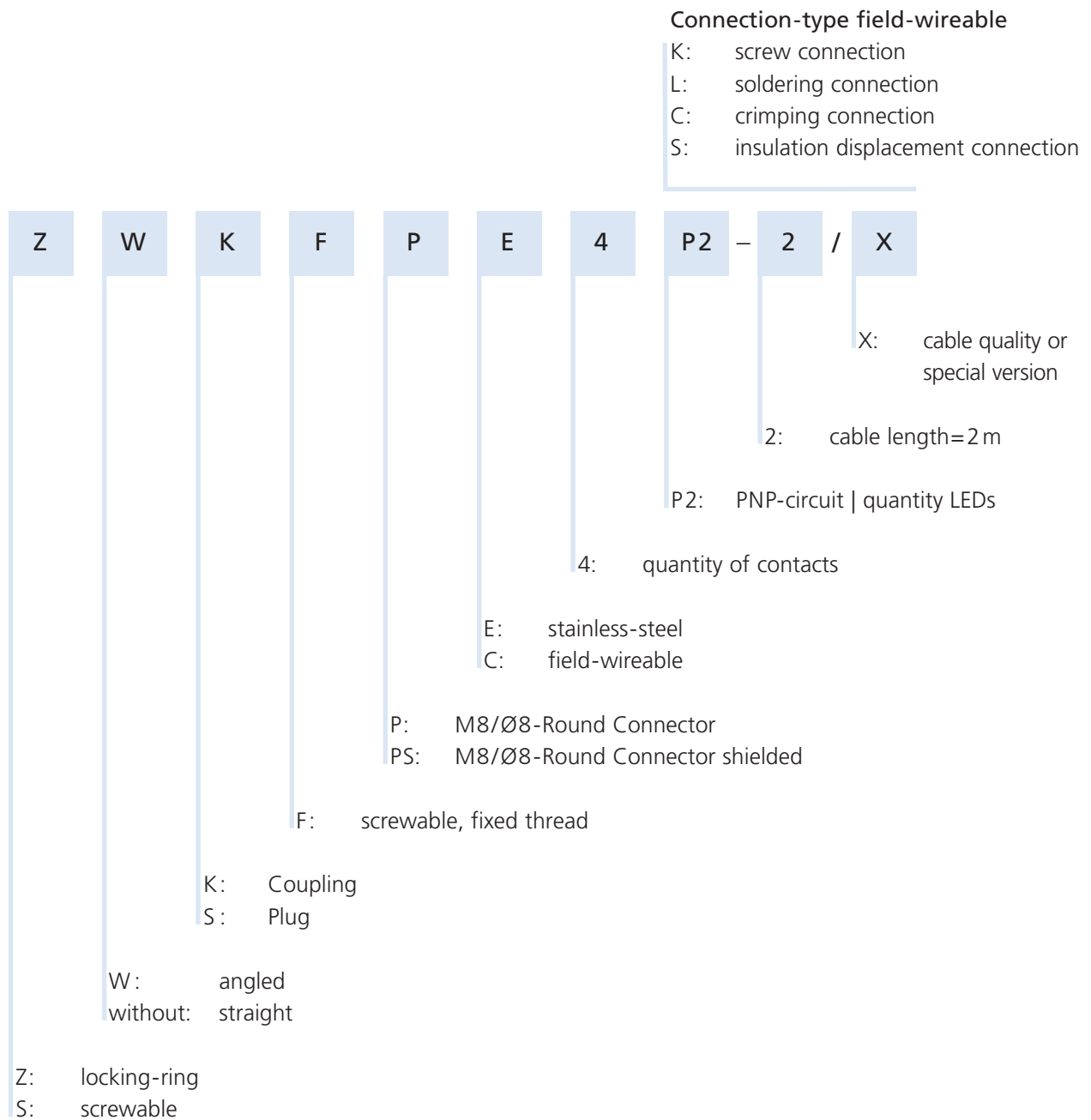
Flange coupling	5.28 – 5.29

Flange plug	5.30 – 5.31

Mounting plug	5.32 – 5.37

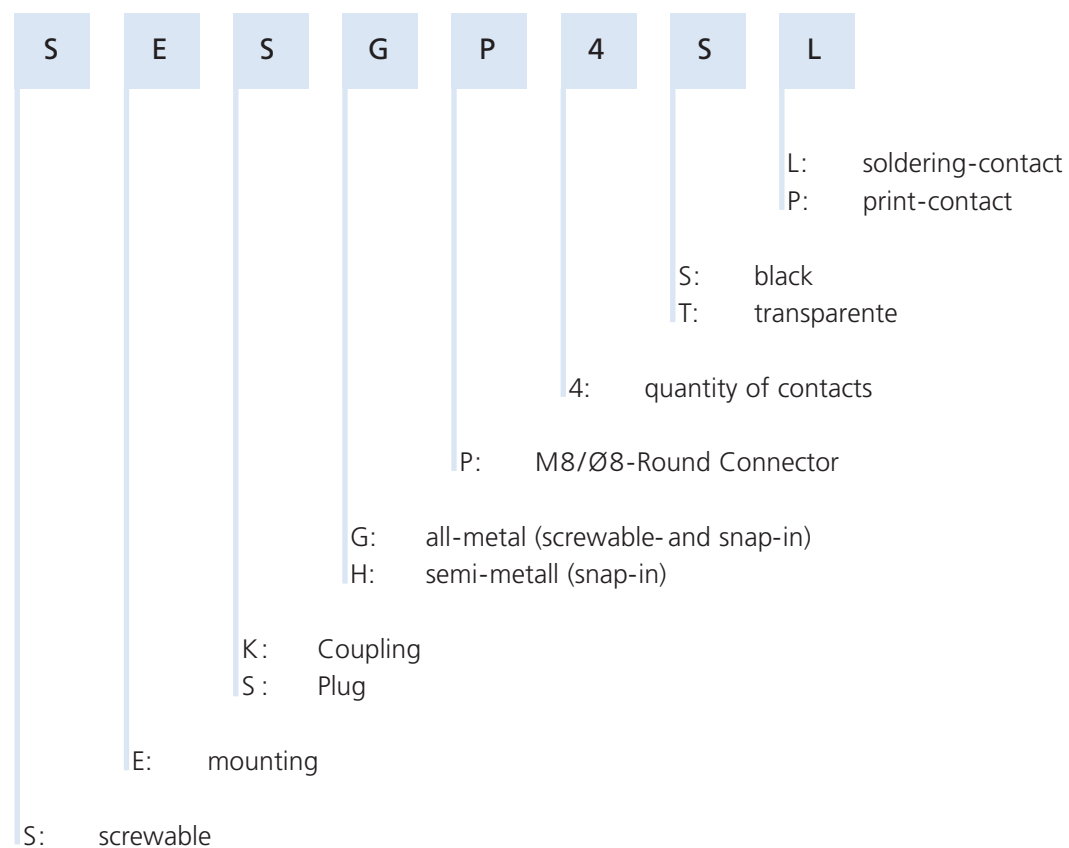
Adapter	5.38 – 5.41

Nomenclature M8x1-Round Connector



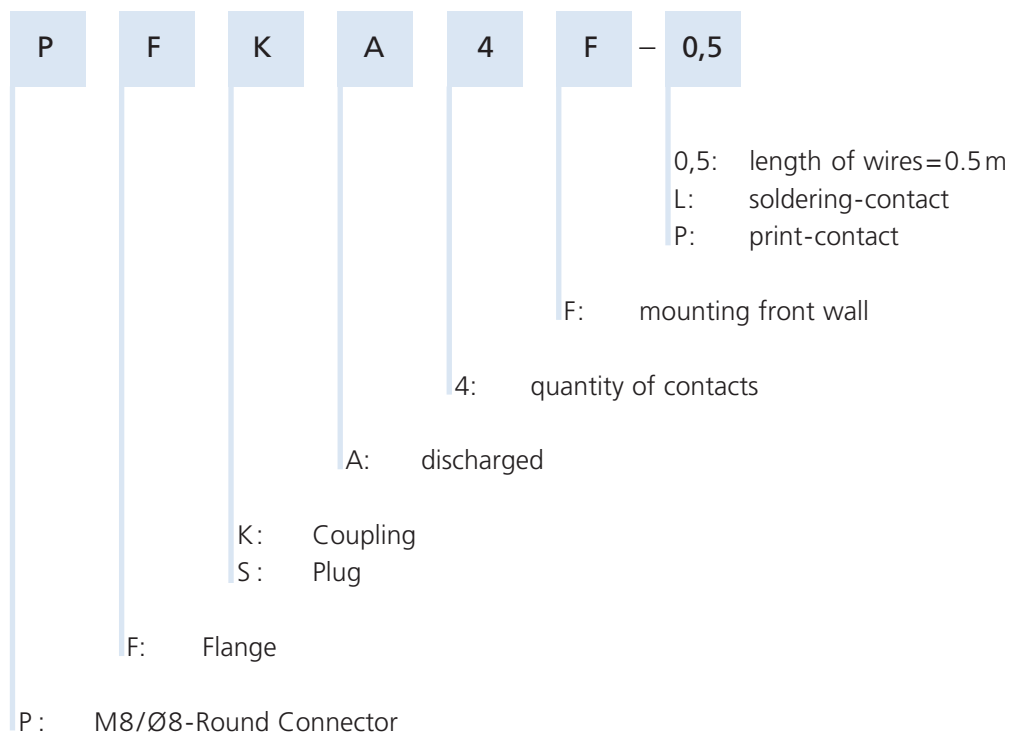
Non appropriate will be let out.

Nomenclature M8x1-Mounting Plug



Non appropriate will be let out.

Nomenclature M8x1-Flange



Non appropriate will be let out.

M8 x 1/Ø 8mm - Round Connector Straight Female Connector Ø 8mm, Snap-In



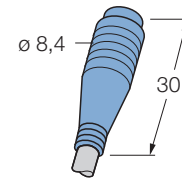
Connector female connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Polarity 3-pole
Ampacity 4 A
Rated voltage max. 60 V

Polarity 4-pole
Ampacity 4 A
Rated voltage max. 30 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged status
Mechanical lifespan min. 100 contact durability



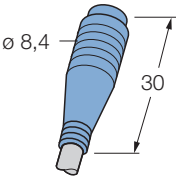
Subject to change without notice Edition: 11.2008

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	KP3-2/P00 8007277	KP3-5/P00 8007281	KP3-10/P00 8007285
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	KP3-2/XOR 8007279	KP3-5/XOR 8007283	KP3-10/XOR 8007287
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	KP3-2/S90 8007278	KP3-5/S90 8007282	KP3-10/S90 8007286
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	KP3-2/S74 8007280	KP3-5/S74 8007284	KP3-10/S74 8007288
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	KP3-2/S366 8023365	KP3-5/S366 8023366	KP3-10/S366 8023367
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	KP3-2/S77/S398 8025709	KP3-5/S77/S398 8023368	KP3-10/S77/S398 8023369
4-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	KP4-2/P00 8007289	KP4-5/P00 8007291	KP4-10/P00 8007293
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	KP4-2/XOR 8009411	KP4-5/XOR 8009412	KP4-10/XOR 8009413
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	KP4-2/S90 8007290	KP4-5/S90 8007292	KP4-10/S90 8007294
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	KP4-2/S77/S366 8023370	KP4-5/S77/S366 8023371	KP4-10/S77/S366 8023372
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	KP4-2/S77/S398 8023373	KP4-5/S77/S398 8023374	KP4-10/S77/S398 8023375

M8 x 1/Ø 8mm - Round Connector
Straight Female Connector Ø 8mm,
Snap-In



Connector	female connector, Ø 8 mm, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Polarity	6-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability

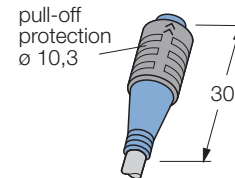


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
6-pole 	PVC, GY 6 x0.14 mm² / Ø 4.4 mm	KP6-2/P00 8007274	KP6-5/P00 8007275	KP6-10/P00 8007276

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M8 x 1/Ø 8mm - Round Connector Straight Female Connector Ø 8mm, Snap-In, with Locking-Ring

Connector	female connector, Ø 8 mm, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Pull-off protection	plastic, POM, black
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability

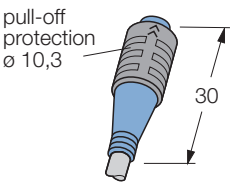


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	ZKP3-2/P00 8007406	ZKP3-5/P00 8007410	ZKP3-10/P00 8007414
	PVC, irradiated, OG 3 x 0.25 mm² / Ø 4.4 mm	ZKP3-2/XOR 8007408	ZKP3-5/XOR 8007412	ZKP3-10/XOR 8007416
	PUR/PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	ZKP3-2/S90 8007407	ZKP3-5/S90 8007411	ZKP3-10/S90 8007415
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm² / Ø 4.4 mm	ZKP3-2/S74 8007409	ZKP3-5/S74 8007413	ZKP3-10/S74 8007417
	PUR, halogen-free, GY 3 x 0.25 mm² / Ø 4.5 mm	ZKP3-2/S366 8023376	ZKP3-5/S366 8023377	ZKP3-10/S366 8023378
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	ZKP3-2/S77/S398 8023379	ZKP3-5/S77/S398 8023380	ZKP3-10/S77/S398 8023381
4-pole 	PVC, GY 4 x 0.25 mm² / Ø 4.4 mm	ZKP4-2/P00 8007418	ZKP4-5/P00 8007421	ZKP4-10/P00 8007424
	PVC, irradiated, OG 4 x 0.25 mm² / Ø 4.4 mm	ZKP4-2/XOR 8007420	ZKP4-5/XOR 8007423	ZKP4-10/XOR 8007426
	PUR/PVC, GY 4 x 0.25 mm² / Ø 4.4 mm	ZKP4-2/S90 8007419	ZKP4-5/S90 8007422	ZKP4-10/S90 8007425
	PUR, halogen-free, GY 4 x 0.34 mm² / Ø 4.7 mm	ZKP4-2/S77/S366 8023382	ZKP4-5/S77/S366 8023383	ZKP4-10/S77/S366 8023384
	PUR, irradiated, OG 4 x 0.34 mm² / Ø 4.8 mm	ZKP4-2/S77/S398 8023385	ZKP4-5/S77/S398 8023386	ZKP4-10/S77/S398 8023387

M8 x 1/Ø 8mm - Round Connector
Straight Female Connector Ø 8mm,
Snap-In, with Locking-Ring



Connector	female connector, Ø 8 mm, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Pull-off protection	plastic, POM, black
Polarity	6-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
6-pole 	PVC, GY 6 x0.14 mm² / Ø 4.4 mm	ZKP6-2/P00 8007403	ZKP6-5/P00 8007404	ZKP6-10/P00 8007405

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M8 x 1/Ø 8mm - Round Connector Straight Female Connector M8 x 1, with Anti-Vibration-Locking



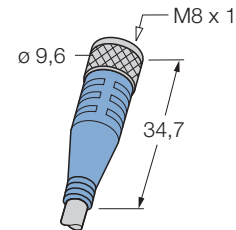
Connector female connector, M8 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Polarity 3-pole
Ampacity 4 A
Rated voltage max. 60 V

Polarity 4-pole
Ampacity 4 A
Rated voltage max. 30 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



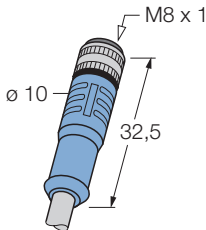
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-2/P00 8007331	SKP3-5/P00 8007335	SKP3-10/P00 8007339
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-2/XOR 8007333	SKP3-5/XOR 8007337	SKP3-10/XOR 8007341
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-2/S90 8007332	SKP3-5/S90 8007336	SKP3-10/S90 8007340
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-2/S74 8007334	SKP3-5/S74 8007338	SKP3-10/S74 8007342
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SKP3-2/S366 8022180	SKP3-5/S366 8019758	SKP3-10/S366 8022181
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SKP3-2/S77/S398 8023388	SKP3-5/S77/S398 8023389	SKP3-10/S77/S398 8023511
4-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	SKP4-2/P00 8007343	SKP4-5/P00 8007345	SKP4-10/P00 8007347
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	SKP4-2/XOR 8009420	SKP4-5/XOR 8009421	SKP4-10/XOR 8009423
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	SKP4-2/S90 8007344	SKP4-5/S90 8007346	SKP4-10/S90 8007348
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	SKP4-2/S77/S366 8022182	SKP4-5/S77/S366 8022183	SKP4-10/S77/S366 8022184
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	SKP4-2/S77/S398 8023781	SKP4-5/S77/S398 8023782	SKP4-10/S77/S398 8023783

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M8 x 1/Ø 8mm - Round Connector
Straight Female Connector M8 x 1,
Shielded



Connector	female connector, M8 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



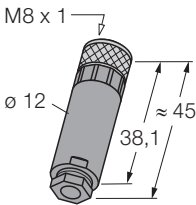
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, shielded, GY 3 x0.25 mm² / Ø 4.4 mm	SKPS3-2/P00 8027199	SKPS3-5/P00 8028293	SKPS3-10/P00 8028294
	PUR, shielded, halogen-free, GY 3 x0.25 mm² / Ø 4.6 mm	SKPS3-2/S366 8028295	SKPS3-5/S366 8028296	SKPS3-10/S366 8028297
4-pole 	PVC, shielded, GY 4 x0.25 mm² / Ø 5.2 mm	SKPS4-2/P00 8027200	SKPS4-5/P00 8028298	SKPS4-10/P00 8028299
	PUR, shielded, halogen-free, GY 4 x0.25 mm² / Ø 5.2 mm	SKPS4-2/S366 8028300	SKPS4-5/S366 8028301	SKP4-10/S366 8028302

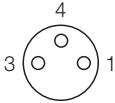
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M8 x 1/Ø 8mm - Round Connector
Straight Female Connector M8 x 1,
Field-Wireable, Screw-Clamp-Connection



Connector	M8 x 1 field-wireable female connector, straight
Grip	plastic, PBT, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuSn, gold-plated
Seal	plastic, Neoprene
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	3.5 ... 5 mm
Core cross-section/Clamping ability	0.14...0.5 mm²
Connection mode	screw-clamping



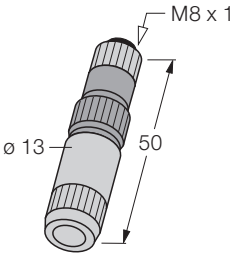
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		SKPC3K 8004833
4-pole 		SKPC4K 8004834

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M8 x 1/Ø 8mm - Round Connector
Straight Female Connector M8 x 1,
Field-Wireable, Cut-Clamp-Connection



Connector	M8 x 1 field-wireable female con- nector, straight
Grip	plastic, PBT, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, FKM/FPM
Ideal core insulation	PE or PVC
Polarity	3-pole
Ampacity	3 A
Rated voltage	max. 32 V
Polarity	4-pole
Ampacity	3 A
Rated voltage	max. 32 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ...5.1 mm
Core cross-section/Clamping ability	0.25...0.5 mm ²
Connection mode	cut-clamping



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		SKPC3S 8019721
4-pole 		SSPC4S 8019723

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M8 x 1/Ø 8mm - Round Connector Angled Female Connector Ø 8mm, Snap-In

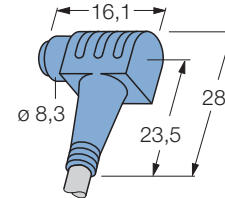
Connector female connector, Ø 8 mm, angled
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Polarity 3-pole
Ampacity 4 A
Rated voltage max. 60 V

Polarity 4-pole
Ampacity 4 A
Rated voltage max. 30 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged status
Mechanical lifespan min. 100 contact durability

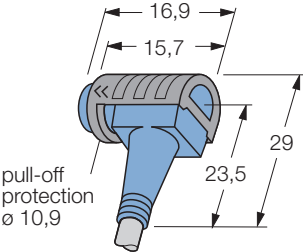


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-2/P00 8007313	WKP3-5/P00 8007317	WKP3-10/P00 8007321
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-2/XOR 8007315	WKP3-5/XOR 8007319	WKP3-10/XOR 8007323
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-2/S90 8007314	WKP3-5/S90 8007318	WKP3-10/S90 8007322
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-2/S74 8007316	WKP3-5/S74 8007320	WKP3-10/S74 8007324
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	WKP3-2/S366 8023429	WKP3-5/S366 8023430	WKP3-10/S366 8023431
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WKP3-2/S77/S398 8023432	WKP3-5/S77/S398 8023433	WKP3-10/S77/S398 8023434
4-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	WKP4-2/P00 8007325	WKP4-5/P00 8007327	WKP4-10/P00 8007329
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	WKP4-2/XOR 8009417	WKP4-5/XOR 8009418	WKP4-10/XOR 8009419
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	WKP4-2/S90 8007326	WKP4-5/S90 8007328	WKP4-10/S90 8007330
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WKP4-2/S77/S366 8023435	WKP4-5/S77/S366 8023436	WKP4-10/S77/S366 8023437
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WKP4-2/S77/S398 8023438	WKP4-5/S77/S398 8023439	WKP4-10/S77/S398 8023440

M8 x 1/Ø 8mm - Round Connector
Angled Female Connector Ø 8mm,
Snap-In, with Locking-Ring



Connector	female connector, Ø 8 mm, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Pull-off protection	plastic, POM, black
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x0.25 mm² / Ø 4.4 mm	ZWKP3-2/P00 8007427	ZWKP3-5/P00 8007431	ZWKP3-10/P00 8007435
	PVC, irradiated, OG 3 x0.25 mm² / Ø 4.4 mm	ZWKP3-2/XOR 8007429	ZWKP3-5/XOR 8007433	ZWKP3-10/XOR 8007437
	PUR/PVC, GY 3 x0.25 mm² / Ø 4.4 mm	ZWKP3-2/S90 8007428	ZWKP3-5/S90 8007432	ZWKP3-10/S90 8007436
	PUR, halogen-free, highly flexible, OG 3 x0.25 mm² / Ø 4.4 mm	ZWKP3-2/S74 8007430	ZWKP3-5/S74 8007434	ZWKP3-10/S74 8007438
	PUR, halogen-free, GY 3 x0.25 mm² / Ø 4.5 mm	ZWKP3-2/S366 8023441	ZWKP3-5/S366 8023442	ZWKP3-10/S366 8023443
	PUR, irradiated, OG 3 x0.34 mm² / Ø 4.4 mm	ZWKP3-2/S398 8018059	ZWKP3-5/S77/S398 8023444	ZWKP3-10/S398 8018062
4-pole 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZWKP4-2/P00 8007439	ZWKP4-5/P00 8007441	ZWKP4-10/P00 8007443
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	ZWKP4-2/XOR 8009442	ZWKP4-5/XOR 8009443	ZWKP4-10/XOR 8009444
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZWKP4-2/S90 8007440	ZWKP4-5/S90 8007442	ZWKP4-10/S90 8007444
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	ZWKP4-2/S77/S366 8023445	ZWKP4-5/S77/S366 8023446	ZWKP4-10/S77/S366 8023447
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	ZWKP4-2/S77/S398 8023448	ZWKP4-5/S77/S398 8023449	ZWKP4-10/S77/S398 8023450

M8 x 1/Ø 8mm - Round Connector Angled Female Connector M8 x 1, with Anti-Vibration-Locking

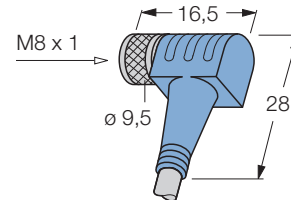
Connector female connector, M8 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Polarity 3-pole
Ampacity 4 A
Rated voltage max. 60 V

Polarity 4-pole
Ampacity 4 A
Rated voltage max. 30 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



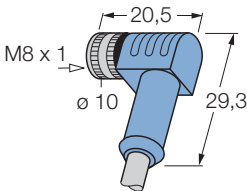
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-2/P00 8007367	SWKP3-5/P00 8007371	SWKP3-10/P00 8007375
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-2/XOR 8007369	SWKP3-5/XOR 8007373	SWKP3-10/XOR 8007377
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-2/S90 8007368	SWKP3-5/S90 8007372	SWKP3-10/S90 8007376
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-2/S74 8007370	SWKP3-5/S74 8007374	SWKP3-10/S74 8007378
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWKP3-2/S366 8022185	SWKP3-5/S366 8019757	SWKP3-10/S366 8022186
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWKP3-2/S77/S398 8023451	SWKP3-5/S77/S398 8023452	SWKP3-10/S77/S398 8023453
4-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	SWKP4-2/P00 8007379	SWKP4-5/P00 8007381	SWKP4-10/P00 8007383
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	SWKP4-2/XOR 8009434	SWKP4-5/XOR 8009435	SWKP4-10/XOR 8009436
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	SWKP4-2/S90 8007380	SWKP4-5/S90 8007382	SWKP4-10/S90 8007384
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	SWKP4-2/S77/S366 8023454	SWKP4-5/S77/S366 8023455	SWKP4-10/S77/S366 8023456
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	SWKP4-2/S77/S398 8023457	SWKP4-5/S77/S398 8023458	SWKP4-10/S77/S398 8023459

Edition: 11.2008
Subject to change without notice

M8 x 1/Ø 8mm - Round Connector
Angled Female Connector M8 x 1,
Shielded



Connector	female connector, M8 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, shielded, GY 3 x0.25 mm² / Ø 4.4 mm	SWKPS3-2/P00 8019234	SWKPS3-5/P00 8028306	SWKPS3-10/P00 8028307
	PUR, shielded, halogen-free, GY 3 x0.25 mm² / Ø 4.6 mm	SWKPS3-2/S366 8019235	SWKPS3-5/S366 8028308	SWKPS3-10/S366 8028309
4-pole 	PVC, shielded, GY 4 x0.25 mm² / Ø 5.2 mm	SWKPS4-2/P00 8019232	SWKPS4-5/P00 8028312	SWKPS4-10/P00 8028313
	PUR, shielded, halogen-free, GY 4 x0.25 mm² / Ø 5.2 mm	SWKPS4-2/S366 8019233	SWKPS4-5/S366 8028311	SWKPS4-10/S366 8028314

M8 x 1/Ø 8mm - Round Connector Angled Female Connector Ø 8mm, Snap-In, with LED



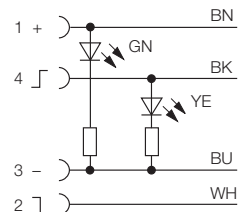
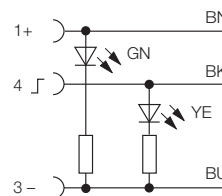
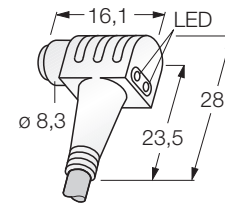
Connector female connector, Ø 8 mm, angled
Grip plastic, TPU, transparent
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Polarity 3-pole
Ampacity 4 A
Rated voltage 10 ...30 V

Polarity 4-pole
Ampacity 4 A
Rated voltage 10 ...30 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged status
Mechanical lifespan min. 100 contact durability



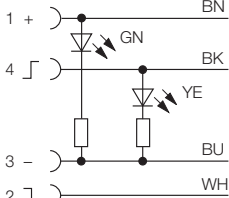
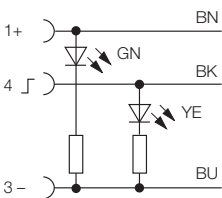
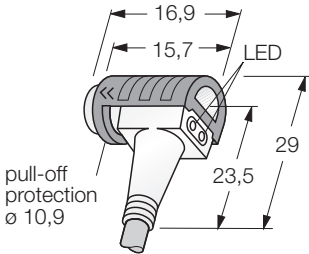
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	WKP3P2-2/P00 8010339	WKP3P2-5/P00 8010343	WKP3P2-10/P00 8010347
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	WKP3P2-2/XOR 8010341	WKP3P2-5/XOR 8010345	WKP3P2-10/XOR 8010349
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	WKP3P2-2/S90 8010340	WKP3P2-5/S90 8010344	WKP3P2-10/S90 8010348
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	WKP3P2-2/S74 8010342	WKP3P2-5/S74 8010346	WKP3P2-10/S74 8010350
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	WKP3P2-2/S366 8023460	WKP3P2-5/S366 8023461	WKP3P2-10/S366 8023462
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WKP3P2-2/S77/S398 8023463	WKP3P2-5/S77/S398 8023464	WKP3P2-10/S77/S398 8023465
4-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	WKP4P2-2/P00 8010351	WKP4P2-5/P00 8010354	WKP4P2-10/P00 8010357
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	WKP4P2-2/XOR 8010353	WKP4P2-5/XOR 8010356	WKP4P2-10/XOR 8010359
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	WKP4P2-2/S90 8010352	WKP4P2-5/S90 8010355	WKP4P2-10/S90 8010358
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WKP4P2-2/S77/S366 8023466	WKP4P2-5/S77/S366 8023467	WKP4P2-10/S77/S366 8023468
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WKP4P2-2/S77/S398 8023469	WKP4P2-5/S77/S398 8023470	WKP4P2-10/S77/S398 8023471

Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector
Angled Female Connector Ø 8mm,
Snap-In, with Locking-Ring, with LED



Connector	female connector, Ø 8 mm, angled
Grip	plastic, TPU, transparent
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Pull-off protection	plastic, POM, black
Polarity	3-pole
Ampacity	4 A
Rated voltage	10 ...30 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	10 ...30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x0.25 mm² / Ø 4.4 mm	ZWKP3P2-2/P00 8010378	ZWKP3P2-5/P00 8010382	ZWKP3P2-10/P00 8010385
	PVC, irradiated, OG 3 x0.25 mm² / Ø 4.4 mm	ZWKP3P2-2/XOR 8010380	ZWKP3P2-5/XOR 8010383	ZWKP3P2-10/XOR 8010386
	PUR/PVC, GY 3 x0.25 mm² / Ø 4.4 mm	ZWKP3P2-2/S90 8010379	ZWKP3P2-5/S90 8009448	ZWKP3P2-10/S90 8009449
	PUR, halogen-free, highly flexible, OG 3 x0.25 mm² / Ø 4.4 mm	ZWKP3P2-2/S74 8010381	ZWKP3P2-5/S74 8010384	ZWKP3P2-10/S74 8010387
	PUR, halogen-free, GY 3 x0.25 mm² / Ø 4.5 mm	ZWKP3P2-2/S366 8023472	ZWKP3P2-5/S366 8023473	ZWKP3P2-10/S366 8023474
	PUR, irradiated, OG 3 x0.34 mm² / Ø 4.4 mm	ZWKP3P2-2/S77/S398 8023475	ZWKP3P2-5/S77/S398 8023476	ZWKP3P2-10/S77/S398 8023477
4-pole 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZWKP4P2-2/P00 8010388	ZWKP4P2-5/P00 8010391	ZWKP4P2-10/P00 8010394
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	ZWKP4P2-2/XOR 8010390	ZWKP4P2-5/XOR 8010393	ZWKP4P2-10/XOR 8010396
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZWKP4P2-2/S90 8010389	ZWKP4P2-5/S90 8010392	ZWKP4P2-10/S90 8010395
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	ZWKP4P2-2/S77/S366 8023478	ZWKP4P2-5/S77/S366 8023479	ZWKP4P2-10/S77/S366 8023480
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	ZWKP4P2-2/S77/S398 8023481	ZWKP4P2-5/S77/S398 8023482	ZWKP4P2-10/S77/S398 8023483

M8 x 1/Ø 8mm - Round Connector Angled Female Connector M8 x 1, with Anti-Vibration-Locking, with LED

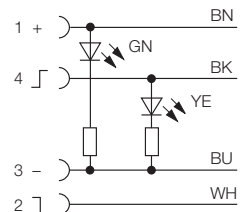
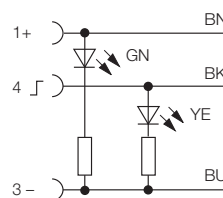
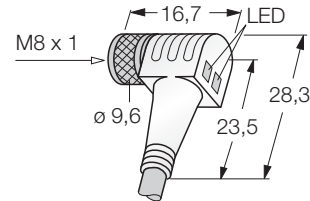
Connector female connector, M8 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Polarity 3-pole
Ampacity 4 A
Rated voltage 10 ...30 V

Polarity 4-pole
Ampacity 4 A
Rated voltage 10 ...30 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability

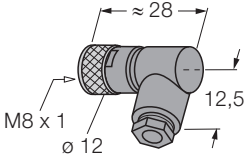


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-2/P00 8010360	SWKP3P2-5/P00 8010364	SWKP3P2-10/P00 8010366
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-2/XOR 8010362	SWKP3P2-5/XOR 8009446	SWKP3P2-10/XOR 8010367
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-2/S90 8010361	SWKP3P2-5/S90 8009445	SWKP3P2-10/S90 8009447
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-2/S74 8010363	SWKP3P2-5/S74 8010365	SWKP3P2-10/S74 8010368
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWKP3P2-2/S366 8023484	SWKP3P2-5/S366 8023485	SWKP3P2-10/S366 8023486
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWKP3P2-2/S77/S398 8023487	SWKP3P2-5/S77/S398 8023488	SWKP3P2-10/S77/S398 8023489
4-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	SWKP4P2-2/P00 8010370	SWKP4P2-5/P00 8010373	SWKP4P2-10/P00 8010375
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	SWKP4P2-2/XOR 8010372	SWKP4P2-5/XOR 8010374	SWKP4P2-10/XOR 8010377
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	SWKP4P2-2/S90 8010371	SWKP4P2-5/S90 8010081	SWKP4P2-10/S90 8010376
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	SWKP4P2-2/S77/S366 8023490	SWKP4P2-5/S77/S366 8023491	SWKP4P2-10/S77/S366 8023492
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	SWKP4P2-2/S77/S398 8023493	SWKP4P2-5/S77/S398 8023494	SWKP4P2-10/S77/S398 8023495

M8 x 1/Ø 8mm - Round Connector
Angled Female Connector M8 x 1,
Field-Wireable, Soldering-Connection



Connector	M8 x 1 field-wireable female connector, angled
Grip	plastic, PA, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuSn, gold-plated
Seal	plastic, Neoprene
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	3.5 ...5 mm
Core cross-section/Clamping ability	max. 0.25 mm²
Connection mode	soldering



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		SWKPC3L 8017351
4-pole 		SWKPC4L 8017364

Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector

Straight Male Connector Ø 8mm, Snap-In

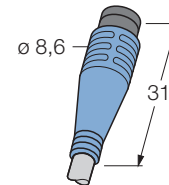
Connector male connector, Ø 8 mm, straight
 Grip plastic, TPU, blue
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated

Polarity 3-pole
 Ampacity 4 A
 Rated voltage max. 60 V

Polarity 4-pole
 Ampacity 4 A
 Rated voltage max. 30 V

Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in plugged status
 Mechanical lifespan min. 100 contact durability

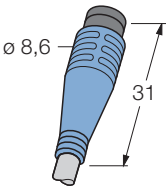


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	SP3-2/P00 8007295	SP3-5/P00 8007299	SP3-10/P00 8007303
	PVC, irradiated, OG 3 x 0.25 mm² / Ø 4.4 mm	SP3-2/XOR 8007297	SP3-5/XOR 8007301	SP3-10/XOR 8007305
	PUR/PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	SP3-2/S90 8007296	SP3-5/S90 8007300	SP3-10/S90 8007304
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm² / Ø 4.4 mm	SP3-2/S74 8007298	SP3-5/S74 8007302	SP3-10/S74 8007306
	PUR, halogen-free, GY 3 x 0.25 mm² / Ø 4.5 mm	SP3-2/S366 8023390	SP3-5/S366 8023391	SP3-10/S366 8023392
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	SP3-2/S77/S398 8023393	SP3-5/S77/S398 8023394	SP3-10/S77/S398 8023395
4-pole 	PVC, GY 4 x 0.25 mm² / Ø 4.4 mm	SP4-2/P00 8007307	SP4-5/P00 8007309	SP4-10/P00 8007311
	PVC, irradiated, OG 4 x 0.25 mm² / Ø 4.4 mm	SP4-2/XOR 8009414	SP4-5/XOR 8009415	SP4-10/XOR 8009416
	PUR/PVC, GY 4 x 0.25 mm² / Ø 4.4 mm	SP4-2/S90 8007308	SP4-5/S90 8007310	SP4-10/S90 8007312
	PUR, halogen-free, GY 4 x 0.34 mm² / Ø 4.7 mm	SP4-2/S77/S366 8023396	SP4-5/S77/S366 8023397	SP4-10/S77/S366 8023398
	PUR, irradiated, OG 4 x 0.34 mm² / Ø 4.8 mm	SP4-2/S77/S398 8023399	SP4-5/S77/S398 8023400	SP4-10/S77/S398 8023401

M8 x 1/Ø 8mm - Round Connector
Straight Male Connector Ø 8mm,
Snap-In



Connector	male connector, Ø 8 mm, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Polarity	6-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
6-pole 	PVC, GY 6 x0.14 mm² / Ø 4.4 mm	SP6-2/P00 8007271	SP6-5/P00 8007272	SP6-10/P00 8007273

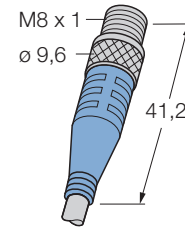
Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector

Straight Male Connector M8 x 1



Connector	male connector, M8 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



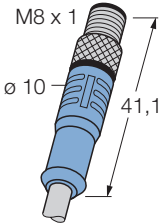
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	SSP3-2/P00 8007349	SSP3-5/P00 8007353	SSP3-10/P00 8007357
	PVC, irradiated, OG 3 x 0.25 mm² / Ø 4.4 mm	SSP3-2/XOR 8007351	SSP3-5/XOR 8007355	SSP3-10/XOR 8007359
	PUR/PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	SSP3-2/S90 8007350	SSP3-5/S90 8007354	SSP3-10/S90 8007358
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm² / Ø 4.4 mm	SSP3-2/S74 8007352	SSP3-5/S74 8007356	SSP3-10/S74 8007360
	PUR, halogen-free, GY 3 x 0.25 mm² / Ø 4.5 mm	SSP3-2/S366 8023402	SSP3-5/S366 8023403	SSP3-10/S366 8023404
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	SSP3-2/S77/S398 8023405	SSP3-5/S77/S398 8023406	SSP3-10/S77/S398 8023407
4-pole 	PVC, GY 4 x 0.25 mm² / Ø 4.4 mm	SSP4-2/P00 8007361	SSP4-5/P00 8007363	SSP4-10/P00 8007365
	PVC, irradiated, OG 4 x 0.25 mm² / Ø 4.4 mm	SSP4-2/XOR 8009428	SSP4-5/XOR 8009429	SSP4-10/XOR 8009430
	PUR/PVC, GY 4 x 0.25 mm² / Ø 4.4 mm	SSP4-2/S90 8007362	SSP4-5/S90 8007364	SSP4-10/S90 8007366
	PUR, halogen-free, GY 4 x 0.34 mm² / Ø 4.7 mm	SSP4-2/S77/S366 8023784	SSP4-5/S77/S366 8023785	SSP4-10/S77/S366 8023786
	PUR, irradiated, OG 4 x 0.34 mm² / Ø 4.8 mm	SSP4-2/S77/S398 8023787	SSP4-5/S77/S398 8023788	SSP4-10/S77/S398 8023789

Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector
Straight Male Connector M8 x1,
Shielded



Connector	male connector, M8 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, shielded, GY 3 x0.25 mm² / Ø 4.4 mm	SSPS3-2/P00 8027201	SSPS3-5/P00 8028315	SSPS3-10/P00 8028316
	PUR, shielded, halogen-free, GY 3 x0.25 mm² / Ø 4.6 mm	SSPS3-2/S366 8028317	SSPS3-5/S366 8028318	SSPS3-10/S366 8028319
4-pole 	PVC, shielded, GY 4 x0.25 mm² / Ø 5.2 mm	SSPS4-2/P00 8027203	SSPS4-5/P00 8028320	SSPS4-10/P00 8028321
	PUR, shielded, halogen-free, GY 4 x0.25 mm² / Ø 5.2 mm	SSPS4-2/S366 8028322	SSPS4-5/S366 8028323	SSPS4-10/S366 8028324

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M8 x 1/Ø 8mm - Round Connector

Straight Male Connector M8 x 1, Fixed

Screwable/Snap-In Thread-Connection



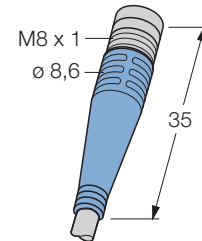
Connector male connector, M8 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, zinc and chrome-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Polarity 3-pole
 Ampacity 4 A
 Rated voltage max. 60 V

Polarity 4-pole
 Ampacity 4 A
 Rated voltage max. 30 V

Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



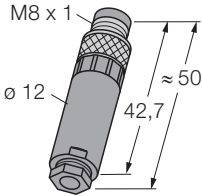
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SSFP3-2/P00 8006689	SSFP3-5/P00 8006693	SSFP3-10/P00 8006697
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SSFP3-2/XOR 8006691	SSFP3-5/XOR 8006695	SSFP3-10/XOR 8006699
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SSFP3-2/S90 8006690	SSFP3-5/S90 8006694	SSFP3-10/S90 8006698
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SSFP3-2/S74 8006692	SSFP3-5/S74 8006696	SSFP3-10/S74 8006700
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SSFP3-2/S366 8023408	SSFP3-5/S366 8023409	SSFP3-10/S366 8023410
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SSFP3-2/S77/S398 8023411	SSFP3-5/S77/S398 8023412	SSFP3-10/S77/S398 8023413
4-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	SSFP4-2/P00 8023414	SSFP4-5/P00 8023415	SSFP4-10/P00 8023416
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	SSFP4-2/XOR 8023420	SSFP4-5/XOR 8023421	SSFP4-10/XOR 8023422
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	SSFP4-2/S90 8023417	SSFP4-5/S90 8023418	SSFP4-10/S90 8023419
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	SSFP4-2/S77/S366 8023423	SSFP4-5/S77/S366 8023424	SSFP4-10/S77/S366 8023425
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	SSFP4-2/S77/S398 8023426	SSFP4-5/S77/S398 8023427	SSFP4-10/S77/S398 8023428

Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector
Straight Male Connector M8 x 1, Field-Wireable,
Screw-Clamp-Connection



Connector	M8 x 1 field-wireable male connector, straight
Grip	plastic, PBT, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	3.5 ... 5 mm
Core cross-section/Clamping ability	0.14...0.5 mm²
Connection mode	screw-clamping



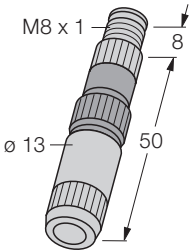
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		SSPC3K 8004831
4-pole 		SSPC4K 8004832

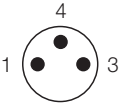
Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector
Straight Male Connector M8 x 1, Field-Wireable,
Cut-Clamp-Connection



Connector	M8 x 1 field-wireable male connector, straight
Grip	plastic, PBT, black
Coupling nut/screw	metal, GD-ZN, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, nickel-plated
Ideal core insulation	PE or PVC
Polarity	3-pole
Ampacity	3 A
Rated voltage	max. 32 V
Polarity	4-pole
Ampacity	3 A
Rated voltage	max. 32 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-25 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	4 ... 5.1 mm
Core cross-section/Clamping ability	0.25...0.5 mm²
Connection mode	cut-clamping



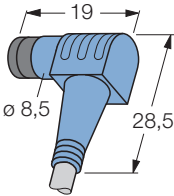
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		SSPC3S 8019720
4-pole 		SKPC4S 8019722

Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector
Angled Male Connector Ø 8mm,
Snap-In



Connector	male connector, Ø 8 mm, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x0.25 mm² / Ø 4.4 mm	WSP3-2/P00 8017715	WSP3-5/P00 8022187	WSP3-10/P00 8018645
	PVC, irradiated, OG 3 x0.25 mm² / Ø 4.4 mm	WSP3-2/XOR 8022192	WSP3-5/XOR 8022193	WSP3-10/XOR 8022194
	PUR/PVC, GY 3 x0.25 mm² / Ø 4.4 mm	WSP3-2/S90 8022188	WSP3-5/S90 8022189	WSP3-10/S90 8022190
	PUR, halogen-free, highly flexible, OG 3 x0.25 mm² / Ø 4.4 mm	WSP3-2/S74 8022196	WSP3-5/S74 8022197	WSP3-10/S74 8022198
	PUR, halogen-free, GY 3 x0.25 mm² / Ø 4.5 mm	WSP3-2/S366 8022199	WSP3-5/S366 8022200	WSP3-10/S366 8022201
	PUR, irradiated, OG 3 x0.34 mm² / Ø 4.4 mm	WSP3-2/S77/S398 8023496	WSP3-5/S77/S398 8023497	WSP3-10/S77/S398 8023498
4-pole 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	WSP4-2/P00 8022202	WSP4-5/P00 8022203	WSP4-10/P00 8022204
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	WSP4-2/XOR 8022208	WSP4-5/XOR 8022209	WSP4-10/XOR 8022210
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	WSP4-2/S90 8022205	WSP4-5/S90 8022206	WSP4-10/S90 8022207
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WSP4-2/S77/S366 8023790	WSP4-5/S77/S366 8023791	WSP4-10/S77/S366 8023792
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WSP4-2/S77/S398 8023793	WSP4-5/S77/S398 8023794	WSP4-10/S77/S398 8023795

M8 x 1/Ø 8mm - Round Connector Angled Male Connector M8 x 1,



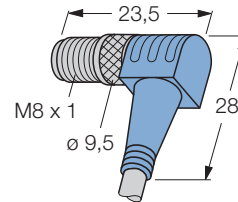
Connector male connector, M8 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Polarity 3-pole
Ampacity 4 A
Rated voltage max. 60 V

Polarity 4-pole
Ampacity 4 A
Rated voltage max. 30 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



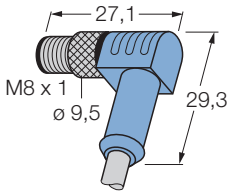
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWSP3-2/P00 8007385	SWSP3-5/P00 8007389	SWSP3-10/P00 8007393
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWSP3-2/XOR 8007387	SWSP3-5/XOR 8007391	SWSP3-10/XOR 8007395
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWSP3-2/S90 8007386	SWSP3-5/S90 8007390	SWSP3-10/S90 8007394
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWSP3-2/S74 8007388	SWSP3-5/S74 8007392	SWSP3-10/S74 8007396
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWSP3-2/S366 8023499	SWSP3-5/S366 8023500	SWSP3-10/S366 8023501
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWSP3-2/S77/S398 8023502	SWSP3-5/S77/S398 8023503	SWSP3-10/S77/S398 8023504
4-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	SWSP4-2/P00 8007397	SWSP4-5/P00 8007399	SWSP4-10/P00 8007401
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	SWSP4-2/XOR 8009438	SWSP4-5/XOR 8009439	SWSP4-10/XOR 8009440
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	SWSP4-2/S90 8007398	SWSP4-5/S90 8007400	SWSP4-10/S90 8007402
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	SWSP4-2/S77/S366 8023505	SWSP4-5/S77/S366 8023506	SWSP4-10/S77/S366 8023507
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	SWSP4-2/S77/S398 8023508	SWSP4-5/S77/S398 8023509	SWSP4-10/S77/S398 8023510

Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector
Angled Male Connector M8 x1,
Shielded



Connector	male connector, M8 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

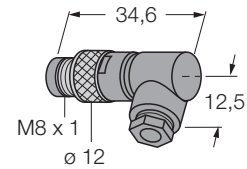


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
Wire-construction				
3-pole 	PVC, shielded, GY 3 x0.25 mm² / Ø 4.4 mm	SWSPS3-2/P00 8027204	SWSPS3-5/P00 8028325	SWSPS3-10/P00 8028326
	PUR, shielded, halogen-free, GY 3 x0.25 mm² / Ø 4.6 mm	SWSPS3-2/S366 8028327	SWSPS3-5/S266 8028328	SWSPS3-10/S366 8028329
4-pole 	PVC, shielded, GY 4 x0.25 mm² / Ø 5.2 mm	SWSPS4-2/P00 8027205	SWSPS4-5/P00 8028330	SWSPS4-10/P00 8028331
	PUR, shielded, halogen-free, GY 4 x0.25 mm² / Ø 5.2 mm	SWSPS4-2/S366 8028332	SWSPS4-5/S366 8028333	SWSPS4-10/S366 8028334

Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector Angled Male Connector M8 x 1, Field-Wireable, Soldering-Connection

Connector	M8 x 1 field-wireable male connector, angled
Grip	plastic, PA, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PA, black
Contacts	metal, CuSn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +85 °C
Degree of protection	IP67, only in screwed status
External diameter of the cable	3.5 ... 5 mm
Core cross-section/Clamping ability	max. 0.25 mm ²
Connection mode	soldering



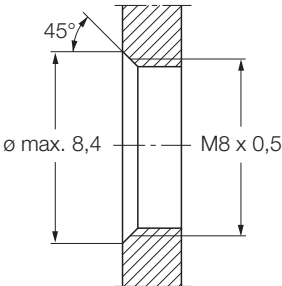
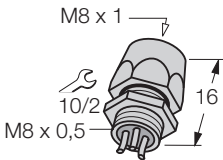
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		SWSPC3L 8017365
4-pole 		SWSPC4L 8017366

Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector
Female Flange Connector M8 x 1 with Wire



Connector	female flange connector, M8 x 1, with wire
Flange housing	wire
Contact carriers	metal, CuZn, nickel-plated
Contacts	plastic, PA 6 GF, black
Seal	metal, gold-plated
Screw-in thread seal	plastic, FPM/FKM
	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Polarity	6-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

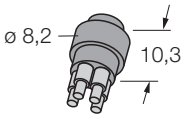


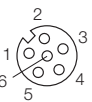
		Standard cable-length 0.2 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x0.25 mm²	PFKS3-0,2 8008169
4-pole 	PVC 4 x0.25 mm²	PFKS4-0,2 8008170
6-pole 	PVC 6 x0.14 mm²	PFKS6-0,2 8019421

M8 x 1/Ø 8mm - Round Connector
Female Flange Connector Ø 8mm with
Print-Contacts, Snap-In



Connector	female flange connector, Ø 8 mm, with print-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Polarity	6-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



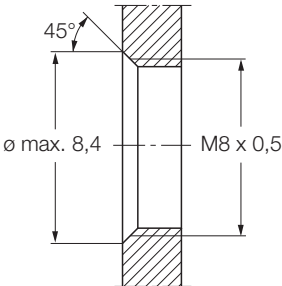
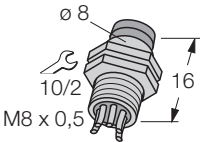
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		PFGA3 8016857
4-pole 		PFGA4 8009729
6-pole 		PFGA6 8017872

Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector
Male Flange Connector Ø 8mm with Wire,
Snap-In



Connector	male flange connector, Ø 8 mm, with wire
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	CuZn, nickel-plated
Contact carriers	plastic, PA 6-3-T, black
Contacts	metal, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Polarity	6-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length 0.2 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x0.25 mm ²	PFS3-0,2 8008165
4-pole 	PVC 4 x0.25 mm ²	PFS4-0,2 8008166
6-pole 	PVC 6 x0.14 mm ²	PFS6-0,2 8025231

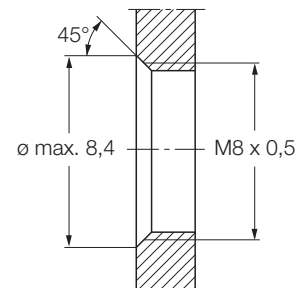
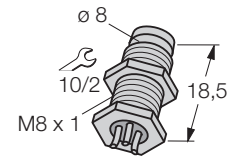
Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector

Male Flange Connector M8 x 1 with Wire, Front-Side Screwable/Snap-In



Connector	male flange connector, M8 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Coupling nut/screw	CuZn, nickel-plated
Contact carriers	plastic, PA 6-3-T, transparent
Contacts	metal, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



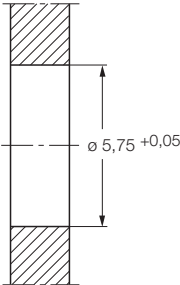
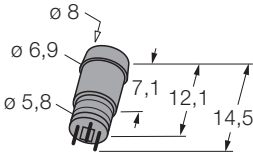
		Standard cable-length 0.2 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PVC 3 x 0.25 mm ²	PFS3F-0,2 8008167
4-pole 	PVC 4 x 0.25 mm ²	PFS4F-0,2 8008168

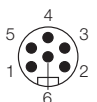
Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector
Male Mounting Connector Ø 8mm with
Soldering-Contacts, Snap-In



Connector	male mounting connector, Ø 8 mm, with soldering-contacts
Contact carriers	plastic, PA 6-3-T, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Polarity	6-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability

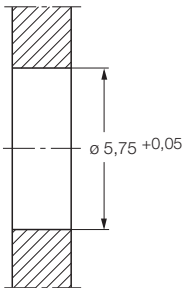
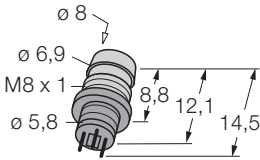


		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		ESP3S 8008163
4-pole 		ESP4S 8008164
6-pole 		ESP6S 8008153

M8 x 1/Ø 8mm - Round Connector
Male Mounting Connector Ø 8mm with
Soldering-Contacts, Screwable-Snap-In



Connector	male mounting connector, Ø 8 mm, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated-chrome-plated
Contact carriers	plastic, PA 6-3-T, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



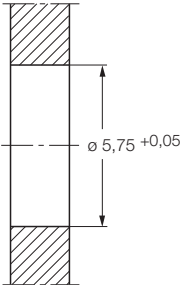
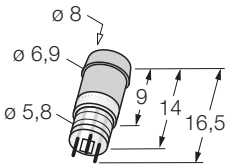
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		SESP3S 8008157
4-pole 		SESP4S 8008158

Subject to change without notice Edition: 11.2008

M8 x 1/Ø 8mm - Round Connector
Male Mounting Connector Ø 8mm with
Soldering-Contacts, with Metal-Flange,
Snap-In



Connector	male mounting connector, Ø 8 mm, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated-chrome-plated
Contact carriers	plastic, PA 6-3-T, transparent
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability

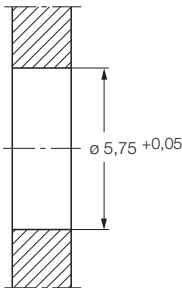
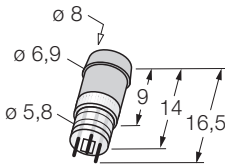


		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		ESHP3L 8008161
4-pole 		ESHP4L 8008162

M8 x 1/Ø 8mm - Round Connector
Male Mounting Connector Ø 8mm with
Print-Contacts, with Metal-Flange,
Snap-In



Connector	male mounting connector, Ø 8 mm, with print-contacts
Flange housing	metal, CuZn, nickel-plated-chrome-plated
Contact carriers	plastic, PA 6-3-T, transparent
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



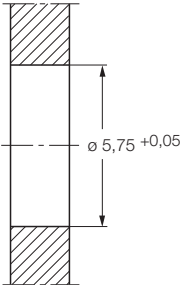
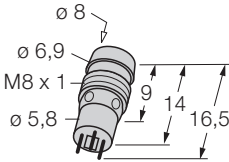
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		ESHP3P 8008159
4-pole 		ESHP4P 8008160

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M8 x 1/Ø 8mm - Round Connector
Male Mounting Connector M8 x 1, with Soldering-
Contacts, with Metal-Flange, LED-Core,
Screwable-Snap-In



Connector	male mounting connector, Ø 8 mm, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated-chrome-plated
Contact carriers	plastic, PA 6-3-T, transparent
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability

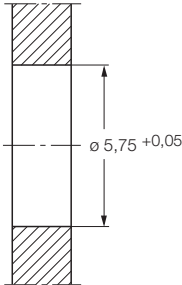
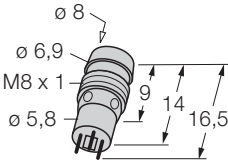


		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		ESGP3L 8008744
4-pole 		ESGP4L 8008745

M8 x 1/Ø 8mm - Round Connector
Male Mounting Connector M8 x 1 with Print-
Contacts, with Metal-Flange, LED-Core,
Screwable-Snap-In



Connector	male mounting connector, Ø 8 mm, with print-contacts
Flange housing	metal, CuZn, nickel-plated-chrome-plated
Contact carriers	plastic, PA 6-3-T, transparent
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



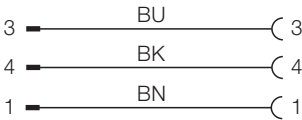
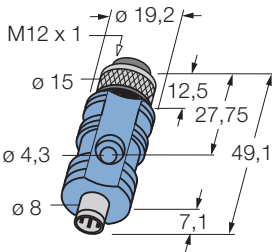
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		ESGP3P 8008742
4-pole 		ESGP4P 8008743

Subject to change without notice Edition: 11.2008

**M12 x 1 - Round Connector
Adapter
Straight Female Connector M12 x 1 -
Straight Male Connector Ø 8mm, Snap-In**



Junction box	adapter, 3-pole
Connector	female connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	male connector, Ø 8 mm, straight, snap-in
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

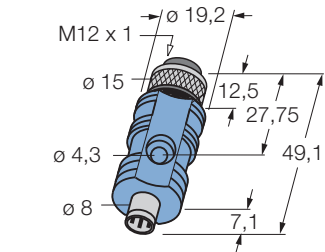


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
3-pole 		
		FKM3-ESP3S 8008083

**M12 x 1 - Round Connector
Adapter
Straight Female Connector M12 x 1 -
Straight Male Connector Ø 8mm, Snap-In**



Junction box	adapter, 4-pole
Connector	female connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	male connector, Ø 8 mm, straight, snap-in
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6-3-T, black
Contacts	metal, CuZn, gold-plated
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



4	—	BK	—	4
3	—	BU	—	3
2	—	WH	—	2
1	—	BN	—	1

		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole		
4-pole		FKM4-ESP4S 8008084

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M12 x 1 - Round Connector
Adapter
Straight Male Connector M12 x 1 -
Straight Female Connector Ø 8mm



Junction box
Connector
Grip
Coupling nut/screw
Contact carriers
Contacts

adapter, 3-pole
male connector, M12 x 1, straight
plastic, TPU, blue
metal, CuZn, nickel-plated
plastic, TPU, black
metal, CuZn, gold-plated

Connector
Grip
Coupling nut/screw
Contact carriers
Contacts
Seal

female connector, M8 x 1, straight
plastic, TPU, blue
metal, CuZn, nickel-plated
plastic, TPU, black
metal, CuZn, gold-plated
plastic, FKM/FPM

Polarity
Ampacity
Rated voltage

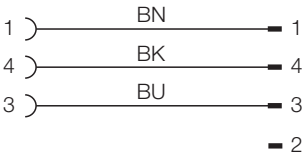
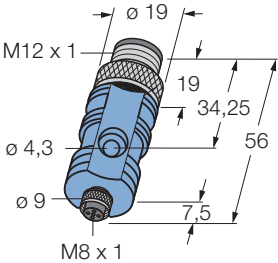
3-pole
4 A
max. 60 V

Insulation resistance
Forward resistance
Pollution degree

$\geq 10^9 \Omega$
 $\leq 5 \text{ m}\Omega$
3

Ambient temperature junction
Degree of protection
Mechanical lifespan

-30 ... +90 °C
IP67
min. 100 contact durability

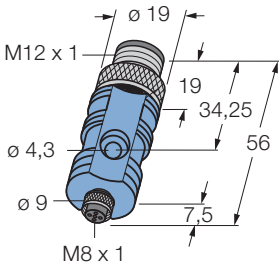


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
3-pole 3-pole	Wire-construction	FSM3-SKP3 8008079

**M12 x 1 - Round Connector
Adapter
Straight Male Connector M12 x 1 -
Straight Female Connector Ø 8mm**



Junction box	adapter, 4-pole
Connector	male connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	female connector, M8 x 1, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



1	BN	1
2	WH	2
3	BU	3
4	BK	4

		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole 		
4-pole 		FSM4-SKP4 8008138

Subject to change without notice Edition: 11.2008



M 16x0,75 Round Connector

The pre-assembled and pre-moulded M16x0.75 round connectors are ideally adapted to our M8x1 actuator-/sensor-boxes. There are 14- and 19-pole versions with various pin configurations and field-wireable types available.

Coupling straight	6.1 – 6.2

Coupling angled	6.3 – 6.5

The signal-plug
with 19 poles



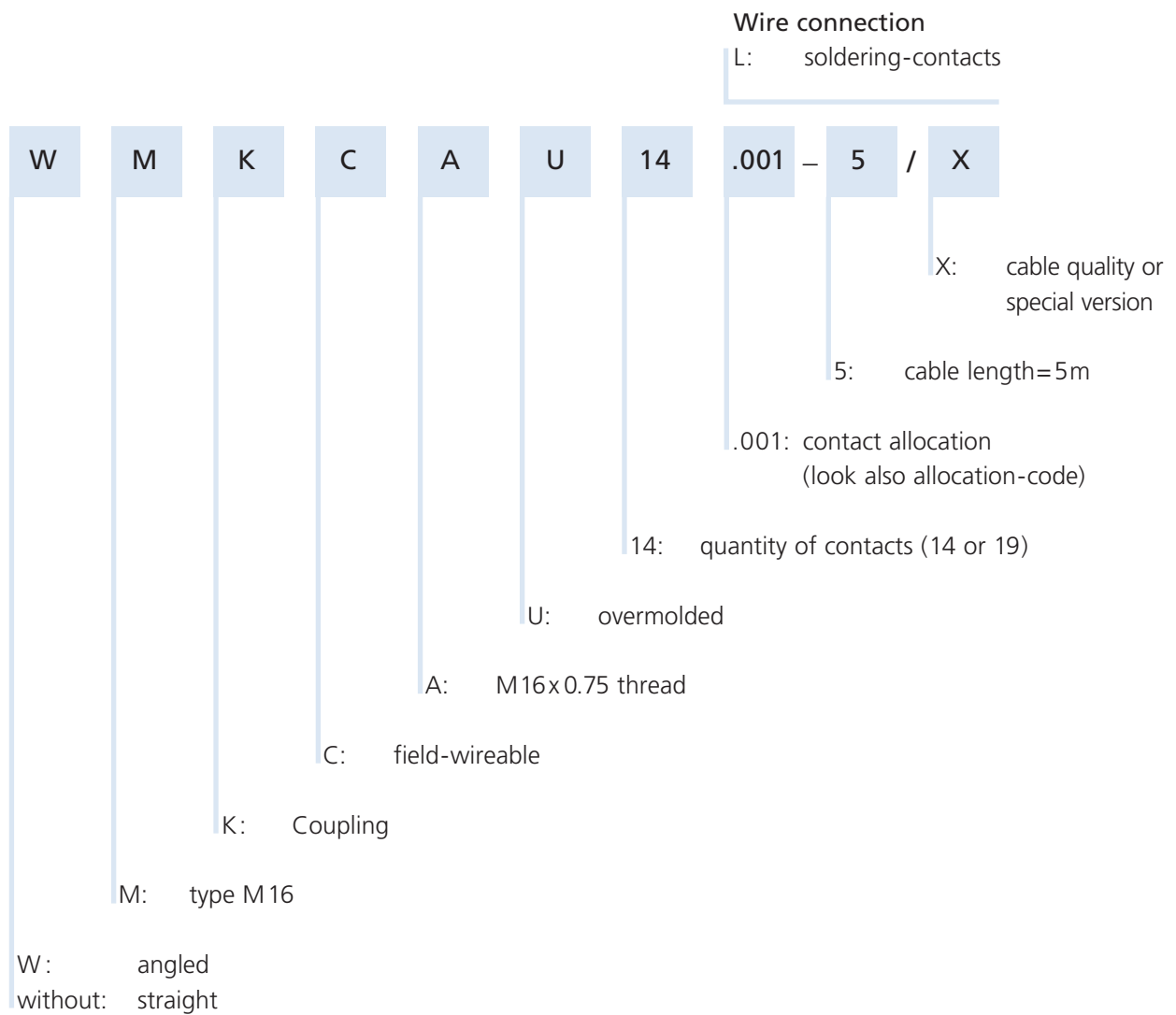
Dust- and waterproof
according to IEC 60529



As standard, cable
terminals converted
with wire-end sleeves



Nomenclature M 16x0,75 -Round Connector



Non appropriate will be let out.

Allocation-code for M16x0,75

Code	Connecting cable for	Colour-Code	
14.001	8MBM8-3P2	A = brown	O = violet
	8MBM8-3N2	E = black	P = white
	8MBS8-3P2	G = pink	R = red
	8MBS8-3N2	J = green	S = grey
		L = blue	T = yellow
14.003	4MBM8-4P3	C = green	N = yellow
	4MBM8-4N3	E = pink	O = grey
		G = redt	P = black
		J = violet	R = white
		M = brown	U = blue
19.001	8MBM8-4P3	A = white/grey	K = yellow/brown
	8MBM8-4N3	B = white/yellow	L = grey/brown
		C = green	M = brown
		D = red	N = yellow
		E = grey/pink	O = grey
		F = pink	P = white/green
		G = red/blue	R = white
		H = black	S = violet
		J = brown/green	U = blue

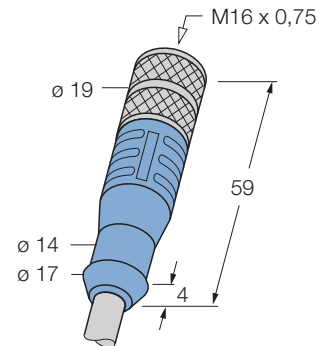
Wire-cross-section 0.25 mm²

bold: Wire-cross-section 0.5 mm²

M16 x 0,75 - Round Connector Straight Female Connecting Cable, for 8-Way M8 x 1/Ø8mm Junction-Box with 3(4)-Pole I/O-Ports



Connector	female connector, M16 x 0,75,
Grip	straight
Coupling nut/screw	plastic, TPU, blue
Contact carriers	metal, CuZn, nickel-plated
Contacts	plastic, TPU, black
Seal	metal, CuZn, gold-plated
	plastic, NBR
Polarity	14-pole
Ampacity	6 A contact A, L and 2 A remaining contacts
Rated voltage	max. 32 V
Polarity	14-pole
Ampacity	6 A contact A, L and 2 A remaining contacts
Rated voltage	max. 32 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



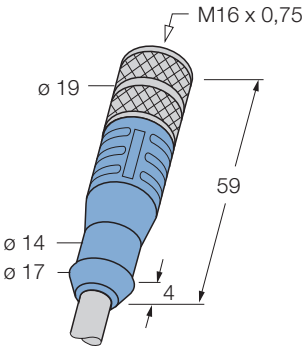
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
14-pole 	PUR, halogen-free, BK 8 x 0.25 mm² / 2 x 0.5 mm² / Ø 7.1 mm	MKAU14.001-2/S1117 8029796	MKAU14.001-5/S1117 8029865	MKAU14.001-10/S1117 8029866
	PVC, black 8 x 0.25 mm² / 2 x 0.5 mm² / Ø 8 mm	MKAU14.001-2/S1118 8029797	MKAU14.001-5/S1118 8029867	MKAU14.001-10/S1118 8029868
14-pole 	PUR, halogen-free, BK 8 x 0.25 mm² / 2 x 0.5 mm² / Ø 7.1 mm	MKAU14.003-2/S1117 8029798	MKAU14.003-5/S1117 8029869	MKAU14.003-10/S1117 8029870
	PVC, BK 8 x 0.25 mm² / 2 x 0.5 mm² / Ø 8 mm	MKAU14.003-2/S1118 8029799	MKAU14.003-5/S1118 8029871	MKAU14.003-10/S1118 8029872

Edition: 11.2008
Subject to change without notice

M16 x 0,75 - Round Connector
Straight Female Connection Cable,
for 8-Way M8 x 1/Ø8mm Junction-Box
with 3(4)-Pole I/O-Ports



Connector	female connector, M16 x 0,75, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, NBR
Polarity	19-pole
Ampacity	6 A contact A, L and 2 A remaining contacts
Rated voltage	max. 32 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



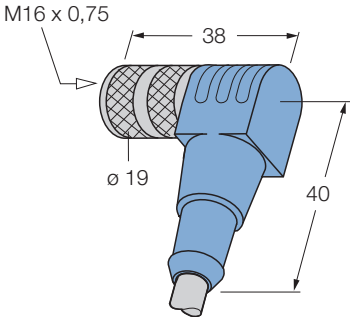
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
19-pole 	PUR, halogen-free, BK 16 x0.25 mm² / 2 x0.5 mm² / Ø 8.5 mm	MKAU19.001-2/S1117 8029813	MKAU19.001-5/S1117 8029873	MKAU19.001-10/S1117 8029874
	PVC, BK 16 x0.25 mm² / 2 x0.5 mm² / Ø 8.5 mm	MKAU19.001-2/S1118 8029814	MKAU19.001-5/S1118 8029875	MKAU19.001-10/S1118 8029876

Subject to change without notice Edition: 11.2008

**M16 x 0,75 - Round Connector
Angled Female Connecting Cable,
for 8-Way M8 x 1/Ø8mm Junction-Box
with 3(4)-Pole I/O-Ports**



Connector	female connector, M16 x 0,75, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, NBR
Polarity	14-pole
Ampacity	6 A contact A, L and 2 A remaining contacts
Rated voltage	max. 32 V
Polarity	14-pole
Ampacity	6 A contact A, L and 2 A remaining contacts
Rated voltage	max. 32 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



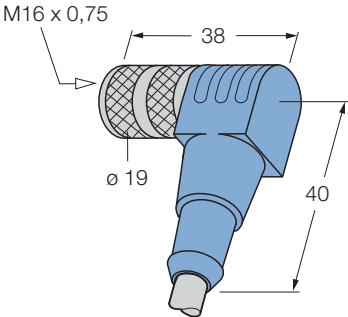
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
14-pole 	PUR, halogen-free, BK 8 x 0.25 mm² / 2 x 0.5 mm² / Ø 7.1 mm	WMKAU14.001-2/S1117 8019431	WMKAU14.001-5/S1117 8019432	WMKAU14.001-10/S1117 8019443
	PVC, black 8 x 0.25 mm² / 2 x 0.5 mm² / Ø 8 mm	WMKAU14.001-2/S1118 8018508	WMKAU14.001-5/S1118 8019444	WMKAU14.001-10/S1118 8019445
14-pole 	PUR, halogen-free, BK 8 x 0.25 mm² / 2 x 0.5 mm² / Ø 7.1 mm	WMKAU14.003-2/S1117 8026802	WMKAU14.003-5/S1117 8027231	WMKAU14.003-10/S1117 8027232
	PVC, BK 8 x 0.25 mm² / 2 x 0.5 mm² / Ø 8 mm	WMKAU14.003-2/S1118 8026801	WMKAU14.003-5/S1118 8027233	WMKAU14.003-10/S1118 8027234

Subject to change without notice Edition: 11.2008

M16 x 0,75 - Round Connector
Angled Female Connecting Cable,
for 8-Way M8 x 1/Ø8mm Junction-Box
with 3(4)-Pole I/O-Ports



Connector	female connector, M16 x 0,75, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, NBR
Polarity	19-pole
Ampacity	6 A contact A, L and 2 A remaining contacts
Rated voltage	max. 32 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

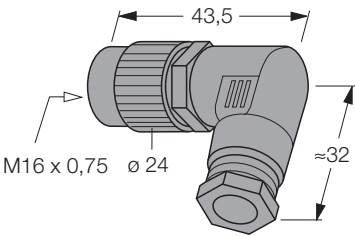


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
19-pole	PUR, halogen-free, BK 16 x0.25 mm² / 2 x0.5 mm² / Ø 8.5 mm	WMKAU19.001-2/S1117 8022166	WMKAU19.001-5/S1117 8027235	WMKAU19001-10/S1117 8027236
	PVC, BK 16 x0.25 mm² / 2 x0.5 mm² / Ø 8.5 mm	WMKAU19.001-2/S1118 8022167	WMKAU19.001-5/S1118 8027237	WMKAU19.001-10/S1118 8027238

M16 x 0,75 - Round Connector
Angled Female Connector, Field-Wireable,
for 8-Way M8 x 1/Ø8mm Actuator-/Sensor-Box
with Soldering-Contacts



Connector	M16 x 0,75 field-wireable female connector, angled
Grip	plastic, PA66, black
Coupling nut/screw	metal, CuZn, chrome-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuSn, gold-plated
Seal	plastic, NBR
Polarity	14-pole
Ampacity	3 A
Rated voltage	max. 60 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 3 mΩ
Pollution degree	1
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
External diameter of the cable	6 ...8 mm
Core cross-section/Clamping ability	0.25...0.5 mm ²
Connection mode	soldering connection



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
14-pole 		WMKCA14L 8017607

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M23x1 Round Connector

The pre-assembled and pre-moulded M23x1 round connectors are ideally adapted to our M12x1 actuator-/sensor-boxes.

There are 12- and 19-pole versions with various pin configurations and field-wireable types available.

Coupling straight

7.1 – 7.8

Coupling angled

7.9 – 7.16

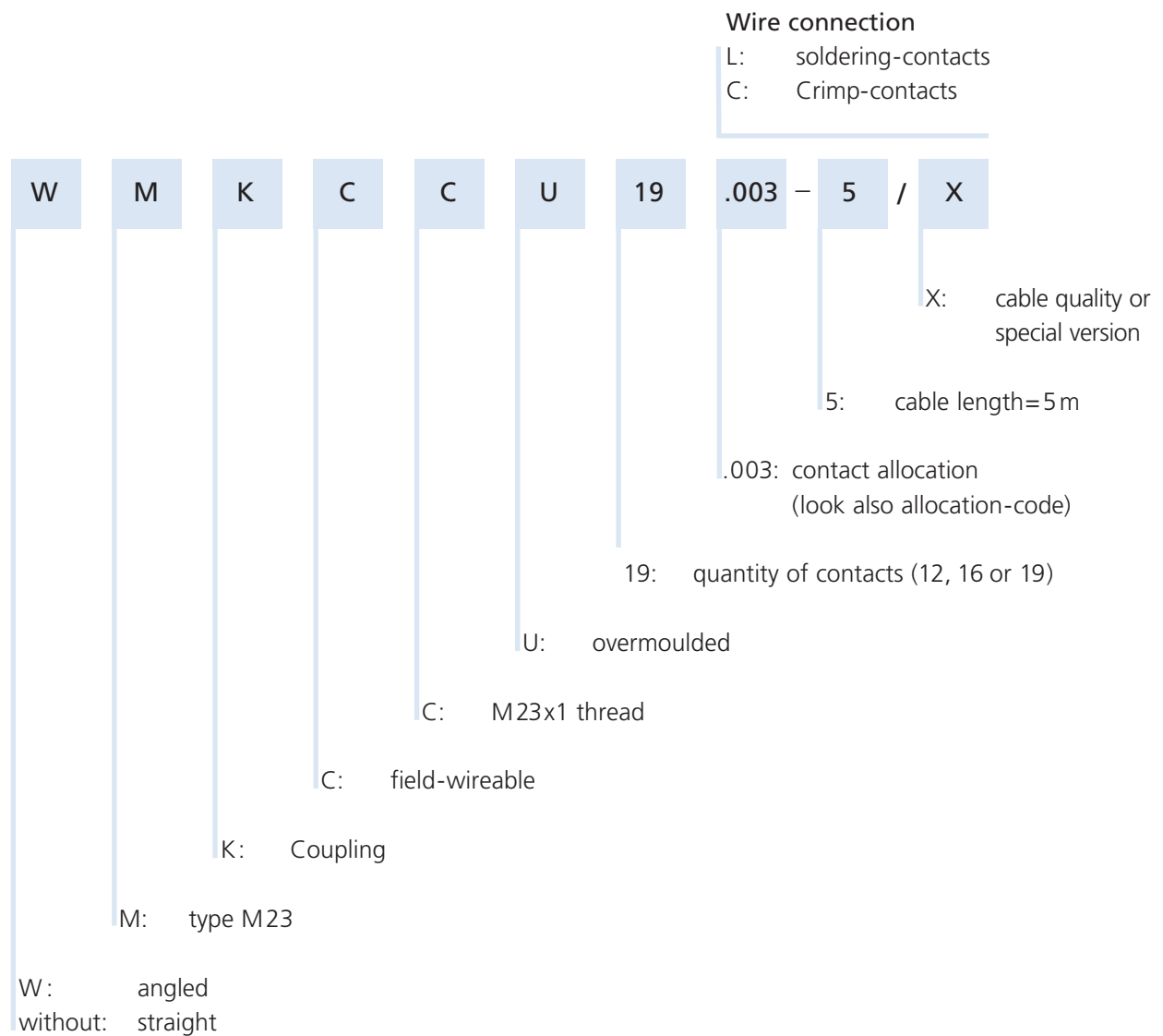
Dust- and waterproof
according to IEC 60529

IP67

As standard, cable
terminals converted
with wire-end sleeves



Nomenclature M23x1-Round Connector



Non appropriate will be let out.

Allocation-Code for M23x1

Code	Connection cable for	Colour-Code	
12.001	MB-4M12-5.4P2/S2000, MB-4M12-5.4P2	1 = white 2 = green 3 = yellow 4 = grey 5 = free 6 = free	7 = free 8 = free 9 = free 10 = blue 11 = brown 12 = green/yellow
12.003	MB-8M12-5.4P2/S2000, MB-8M12-5.4P2	1 = white 2 = green 3 = yellow 4 = grey 5 = pink 6 = red	7 = black 8 = violet 9 = free 10 = blue 11 = brown 12 = green/yellow
19.001	MB-4M12-5P3-2/S2000, MB-4M12-5P3	1 = free 2 = free 3 = grey 4 = red/blue 5 = green 6 = blue 7 = grey/pink 8 = white/green 9 = free 10 = free	11 = free 12 = green/yellow 13 = free 14 = brown/green 15 = white 16 = yellow 17 = free 18 = free 19 = brown
19.003	MB-8M12-5P3/S2000, MB-8M12-5P3	1 = violet 2 = red 3 = grey 4 = res/blue 5 = green 6 = blue 7 = grey/pink 8 = white/green 9 = white/yellow 10 = white/grey	11 = black 12 = green/yellow 13 = yellow/brown 14 = brown/green 15 = white 16 = yellow 17 = pink 18 = grey/brown 19 = brown

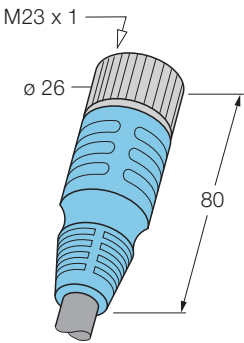
Wire-cross-section 0.34 mm²

bold: Wire-cross-section 1mm²

M23 x 1 - Round Connector
Straight Female Connecting Cable,
for 4-Way M12 x 1 - Junction-Box,
I/O-Ports 3-Pole + Ground



Connector	female connector, M23 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT GF, white
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	8 A contacts 10, 11, 12 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



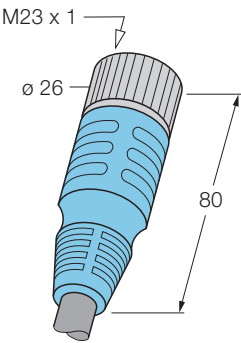
		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PUR, halogen-free, BK 4 x 0.34 mm ² / 3 x 1 mm ² / Ø 8.2 mm	MKCU12.001-5/S366 8026032	MKCU12.001-10/S366 8026033	MKCU12.001-15/S366 8026035

Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Straight Female Connecting Cable,
for 4-way M12 x 1 - Junction-Box,
I/O-Ports 4-Pole + Ground



Connector	female connector, M23 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT GF, white
Contacts	metal, CuZn, gold-plated
Polarity	19-pole
Ampacity	10 A contacts 6, 12, 19 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



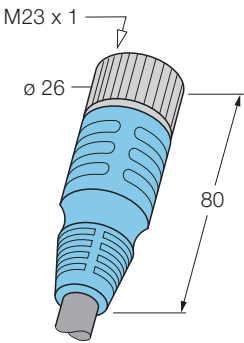
		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
19-pole 	PUR, halogen-free, BK 8 x0.34 mm² / 3 x1 mm² / Ø 8.8 mm	MKCU19.001-5/S366 8026036	MKCU19.001-10/S366 8026037	MKCU19.001-15/S366 8026038

Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Straight Female Connecting Cable,
for 8-Way M12 x 1 - Junction-Box,
I/O-Ports 3-Pole + Ground



Connector	female connector, M23 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT GF, white
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	8 A contacts 10, 11, 12 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

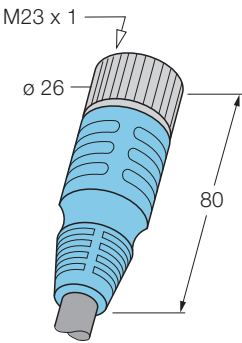


		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PUR, halogen-free, BK 8 x 0.34 mm ² / 3 x 1 mm ² / Ø 8.8 mm	MKCU12.003-5/S366 8026039	MKCU12.003-10/S366 8026041	MKCU12.003-15/S366 8026042

M23 x 1 - Round Connector
Straight Female Connecting Cable,
for 8-Way M12 x 1 - Junction-box,
I/O-Ports 4-Pole + Ground



Connector	female connector, M23 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT GF, white
Contacts	metal, CuZn, gold-plated
Polarity	19-pole
Ampacity	10 A contacts 6, 12, 19 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



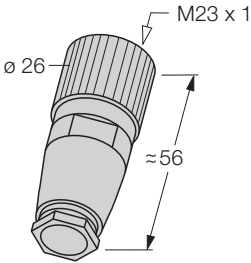
		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
19-pole	PUR, halogen-free, BK 16 x0.34 mm² / 3 x1 mm² / Ø 10.7 mm	MKCU19.003-5/S366 8017221	MKCU19.003-10/S366 8017222	MKCU19.003-15/S366 8017223

Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Straight Female Connector with Soldering-Contacts,
Field-Wireable



Connector	M23 x 1 field-wireable female connector, straight
Grip	metal, CuZn, nickel-plated, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, grey
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	8 A
Rated voltage	max. 125 V
Polarity	16-pole
Ampacity	8 A
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +125 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 Contact durability
External diameter of the cable	8 ...12 mm
Core cross-section/Clamping ability	max. 1 mm²
Connection mode	soldering connection



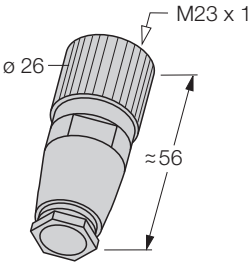
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
12-pole 		MKCC12L 8013694
16-pole 		MKCC16L 8013695

Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Straight Female Connector with Soldering-Contacts,
Field-Wireable



Connector	M23 x 1 field-wireable female connector, straight
Grip	metal, CuZn, nickel-plated, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, grey
Contacts	metal, CuZn, gold-plated
Polarity	19-pole
Ampacity	10 A contacts 6, 12, 19 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +125 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
External diameter of the cable	10 ... 14 mm
Core cross-section/Clamping ability	max. 1 mm ²
Connection mode	soldering connection



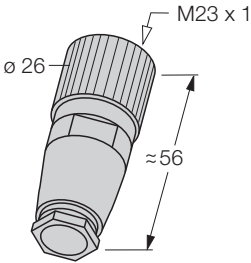
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
19-pole 		MKCC19L 8013696

Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Straight Female Connector with Crimp-Contacts,
Field-Wireable



Connector	M23 x 1 field-wireable female connector, straight
Grip	metal, CuZn, nickel-plated, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, grey
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	8 A
Rated voltage	max. 125 V
Polarity	16-pole
Ampacity	8 A
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +125 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
External diameter of the cable	8 ...12 mm
Core cross-section/Clamping ability	0.34...1 mm²
Connection mode	crimp connection



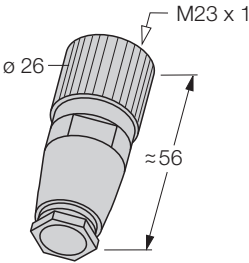
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
12-pole 		MKCC12C 8017132
16-pole 		MKCC16C 8017131

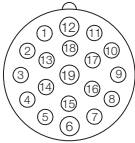
Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Straight Female Connector with Crimp-Contacts,
Field-Wireable



Connector	M23 x 1 field-wireable female connector, straight
Grip	metal, CuZn, nickel-plated, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, grey
Contacts	metal, CuZn, gold-plated
Polarity	19-pole
Ampacity	10 A contacts 6, 12, 19 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +125 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
External diameter of the cable	10 ... 14 mm
Core cross-section/Clamping ability	0.34...1 mm ²
Connection mode	crimp connection



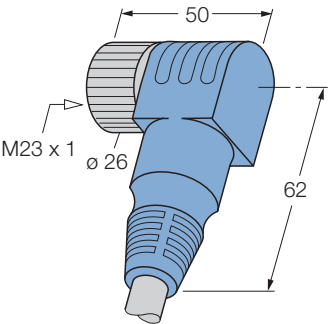
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
19-pole 		MKCC19C 8017130

Subject to change without notice Edition: 11.2008

**M23 x 1 - Round Connector
Angled Female Connection Cable,
for 4-Way M12 x 1 - Junction-Box,
I/O-Ports 3-Pole + Ground**



Connector	female connector, M23 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT GF, white
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	8 A contacts 10, 11, 12 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



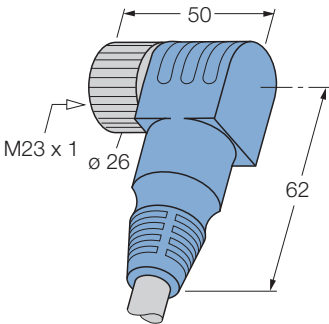
		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PUR, halogen-free, BK 4 x 0.34 mm ² / 3 x 1 mm ² / Ø 8.2 mm	WMKCU12.001-5/S366 8026043	WMKCU12.001-10/S366 8026044	WMKCU12.001-15/S366 8026045

Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Angled Female Connection Cable,
for 4-Way M12 x 1 - Junction-Box,
I/O-Ports 4-Pole + Ground



Connector	female connector, M23 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT GF, white
Contacts	metal, CuZn, gold-plated
Polarity	19-pole
Ampacity	10 A contacts 6, 12, 19 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



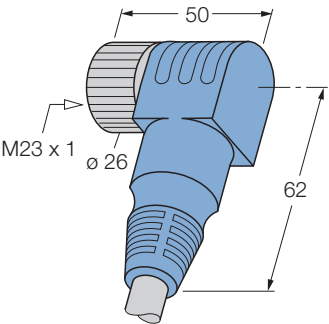
		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
19-pole 	PUR, halogen-free, BK 8 x0.34 mm² / 3 x1 mm² / Ø 8.8 mm	WMKCU19.001-5/S366 8026046	WMKCU19.001-10/S366 8026047	WMKCU19.001-15/S366 8026048

Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Angled Female Connection Cable,
for 8-Way M12 x 1 - Junction-Box,
I/O-Ports 3-Pole + Ground



Connector	female connector, M23 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT GF, white
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	8 A contacts 10, 11, 12 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



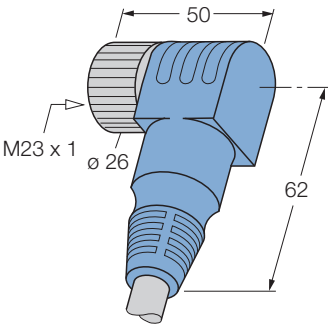
		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PUR, halogen-free, BK 8 x 0.34 mm ² / 3 x 1 mm ² / Ø 8.8 mm	WMKCU12.003-5/S366 8026049	WMKCU12.003-10/S366 8026050	WMKCU12.003-15/S366 8026051

Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Angled Female Connection Cable,
for 8-Way M12 x 1 - Junction-Box,
I/O-Ports 4-Pole + Ground



Connector	female connector, M23 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT GF, white
Contacts	metal, CuZn, gold-plated
Polarity	19-pole
Ampacity	10 A contacts 6, 12, 19 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability

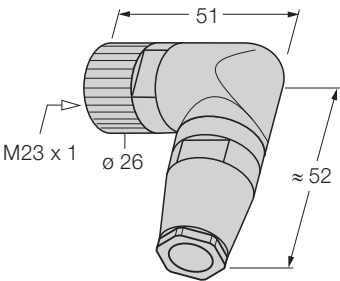


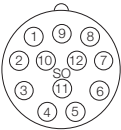
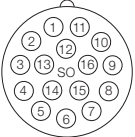
		Standard cable-length		
		5 m	10 m	15 m
Coding	Cable-quality	Type-designation Order-number		
19-pole 	PUR, halogen-free, BK 16 x0.34 mm² / 3 x1 mm² / Ø 10.7 mm	WMKCU19.003-5/S366 8017111	WMKCU19.003-10/S366 8017112	WMKCU19.003-15/S366 8017113

M23 x 1 - Round Connector
Angled Female Connector with Soldering-Contacts,
Field-Wireable



Connector	M23 x 1 field-wireable female connector, angled
Grip	metal, CuZn, nickel-plated, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, grey
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	8 A
Rated voltage	max. 125 V
Polarity	16-pole
Ampacity	8 A
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +125 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
External diameter of the cable	8 ...12 mm
Core cross-section/Clamping ability	max. 1 mm²
Connection mode	soldering connection



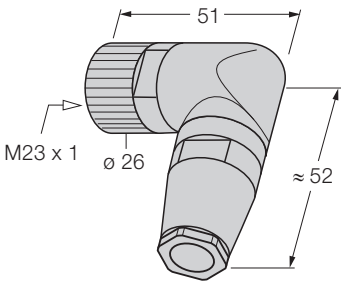
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
12-pole 		WMKCC12L 8017153
16-pole 		WMKCC16L 8017152

Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Angled Female Connector with Soldering-Contacts,
Field-Wireable



Connector	M23 x 1 field-wireable female connector, angled
Grip	metal, CuZn, nickel-plated, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, grey
Contacts	metal, CuZn, gold-plated
Polarity	19-pole
Ampacity	10 A contacts 6, 12, 19 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +125 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
External diameter of the cable	10 ... 14 mm
Core cross-section/Clamping ability	max. 1 mm ²
Connection mode	soldering connection



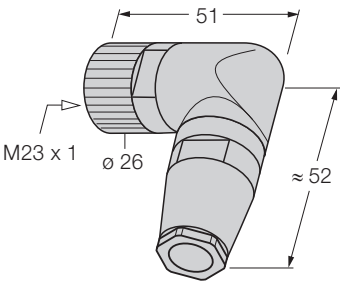
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
19-pole 		WMKCC19L 8017151

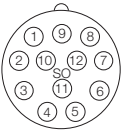
Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Angled Female Connector with Crimp-Contacts,
Field-Wireable



Connector	M23 x 1 field-wireable female connector, angled
Grip	metal, CuZn, nickel-plated, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, grey
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	8 A
Rated voltage	max. 125 V
Polarity	16-pole
Ampacity	8 A
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +125 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
External diameter of the cable	8 ...12 mm
Core cross-section/Clamping ability	0.34...1 mm²
Connection mode	crimp connection



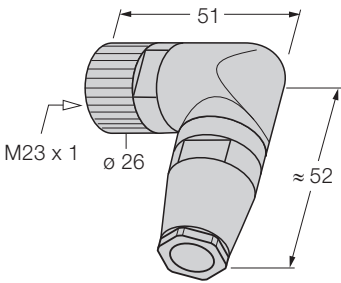
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
12-pole 		WMKCC12C 8017156
16-pole 		WMKCC16C 8017155

Subject to change without notice Edition: 11.2008

M23 x 1 - Round Connector
Angled Female Connector with Crimp-Contacts,
Field-Wireable



Connector	M23 x 1 field-wireable female connector, angled
Grip	metal, CuZn, nickel-plated, silver
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, grey
Contacts	metal, CuZn, gold-plated
Polarity	19-pole
Ampacity	10 A contacts 6, 12, 19 and 4 A remaining contacts
Rated voltage	max. 125 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 3 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +125 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
External diameter of the cable	10 ... 14 mm
Core cross-section/Clamping ability	0.34...1 mm ²
Connection mode	crimp connection



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
19-pole 		WMKCC19C 8017154

Subject to change without notice Edition: 11.2008



High temperature-proof connectors

When it gets hot.

No additional protection against high temperatures. Connectivity for high-temperature applications at permanent operating temperatures of -20°C to +150°C.

The new development from ESCHA.

-20°C...+150°C
Permanent operating
temperatures



+200°C
Maximum operating
temperature



Dust- and waterproof
according to IEC 60529



As standard, cable
terminals converted
with wire-end sleeves



M12x1 Coupling straight	8.1 – 8.6

M12x1 Coupling angled	8.7 – 8.9

M12x1 Plug straight	8.10 – 8.15

M12x1 Plug angled	8.16 – 8.18

M12x1 Connecting-cables	8.19 – 8.33

M8x1 Coupling straight	8.34

M8x1 Coupling angled	8.35

M8x1 Plug straight	8.36

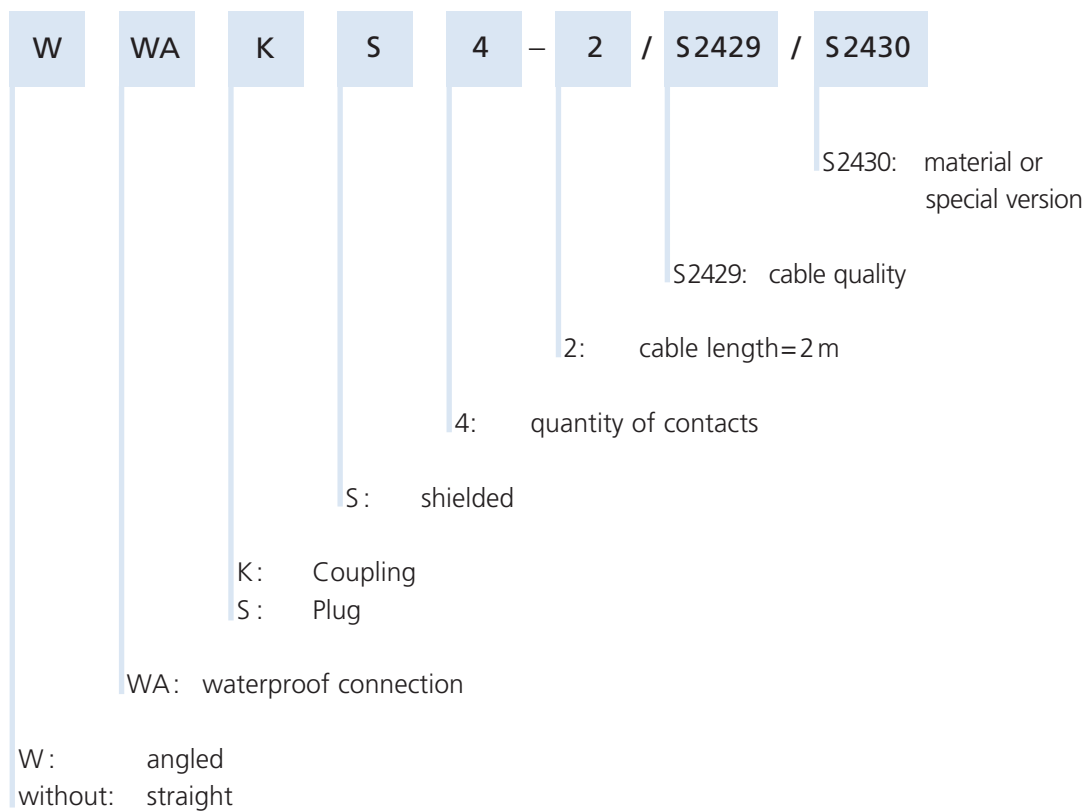
M8x1 Plug angled	8.37

M8x1 Connecting-cables	8.38 – 8.41

Flange coupling metrical thread M16x1.5	8.42 – 8.45

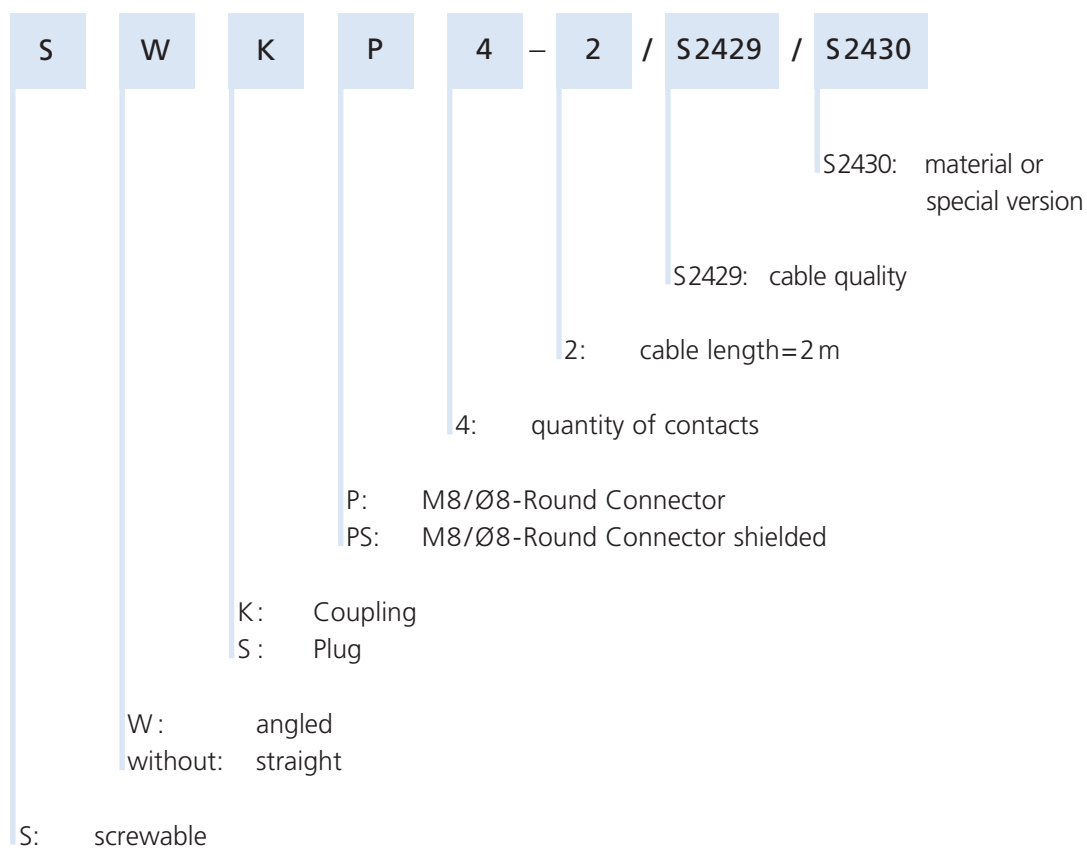
Flange plug metrical thread M16x1.5	8.46 – 8.49

Nomenclature High temperature-proof connector M12x1



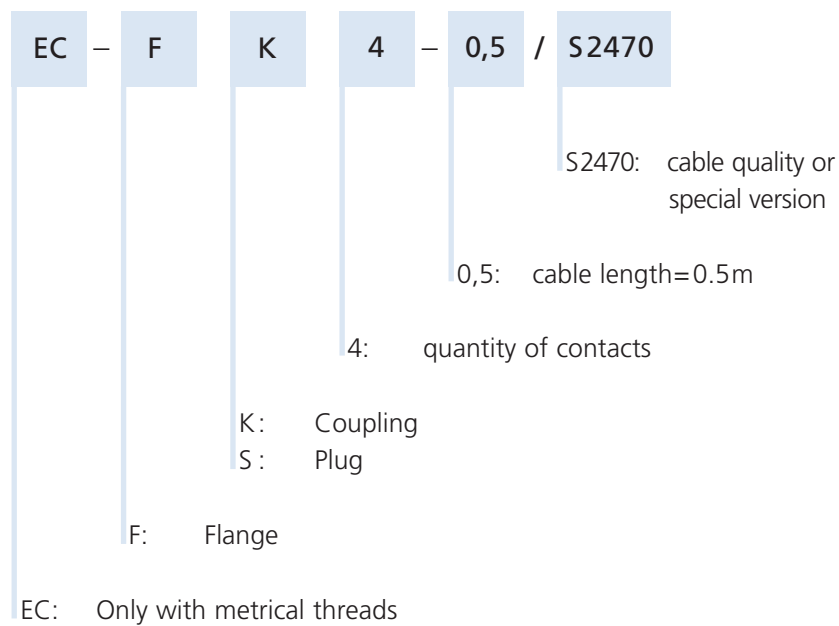
Non appropriate will be let out.

Nomenclature High temperature-proof connector M8x1



Non appropriate will be let out.

Nomenclature High temperature-proof connector M12x1 Flange

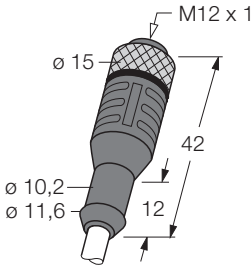


Non appropriate will be let out.

**M12 x 1, High-Temperature-Connector
Straight Female Connector,
with Anti-Vibration-Locking**



Connector	female connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability

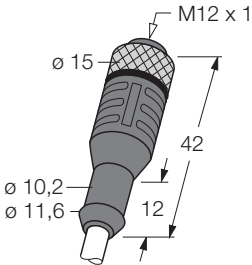


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PTFE, WH 5 x0.34 mm ² / Ø 3.8 mm	WAK3-2/S2429/S2430 8039210	WAK3-5/S2429/S2430 8036085	WAK3-10/S2429/S2430 8039211
4-pole 	PTFE, WH 5 x0.34 mm ² / Ø 3.8 mm	WAK4-2/S2429/S2430 8036518	WAK4-5/S2429/S2430 8036086	WAK4-10/S2429/S2430 8036154

M12 x 1, High-Temperature-Connector
Straight Female Connector,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability

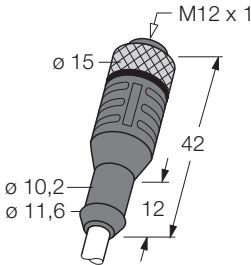


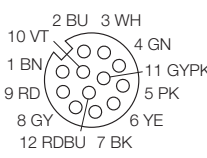
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
5-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	WAK4.5-2/S2429/S2430 8039212	WAK4.5-5/S2429/S2430 8036087	WAK4.5-10/S2429/S2430 8039213
8-pole 	PTFE, WH 8 x0.25 mm² / Ø 4.7 mm	WAK8-2/S2429/S2430 8039214	WAK8-5/S2429/S2430 8039215	WAK8-10/S2429/S2430 8039216

M12 x 1, High-Temperature-Connector
Angled Female Connector,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



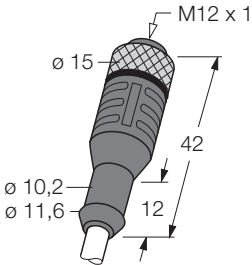
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PTFE, WH	WAK12-2/S2429/S2430	WAK12-5/S2429/S2430	WAK12-10/S2429/S2430
	12 x0.14 mm ² / Ø 4.3 mm	8039711	8039712	8039713

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M12 x 1, High-Temperature-Connector
Straight Female Connector, Shielded,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability

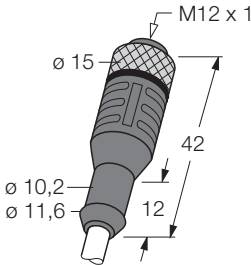


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PTFE, WH 5 x0.34 mm² / Ø 4.5 mm	WAKS3-2/S2429/S2430 8039217	WAKS3-5/S2429/S2430 8039218	WAKS3-10/S2429/S2430 8039219
4-pole 	PTFE, WH 5 x0.34 mm² / Ø 4.5 mm	WAKS4-2/S2429/S2430 8039081	WAKS4-5/S2429/S2430 8039220	WAKS4-10/S2429/S2430 8039221

M12 x 1, High-Temperature-Connector
Straight Female Connector, Shielded,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



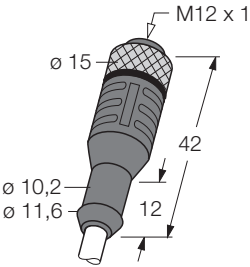
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
5-pole 	PTFE, WH 5 x 0.34 mm ² / Ø 4.5 mm	WAKS4.5-2/S2429/S2430 8039222	WAKS4.5-5/S2429/S2430 8039223	WAKS4.5-10/S2429/S2430 8039124
8-pole 	PTFE, WH 8 x 0.25 mm ² / Ø 4.9 mm	WAKS8-2/S2429/S2430 8037407	WAKS8-5/S2429/S2430 8037408	WAKS8-10/S2429/S2430 8037409

Subject to change without notice Edition: 11.2008

M12 x 1, High-Temperature-Connector
Straight Female Connector, Shielded,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability

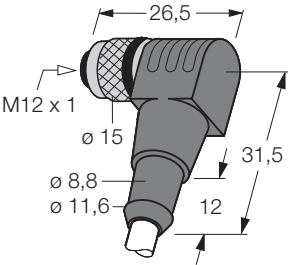


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
12-pole 	PTFE, WH	WAKS12-2/S2429/S2430	WAKS12-5/S2429/S2430	WAKS12-10/S2429/S2430
	12 x0.14 mm² / Ø 4.5 mm	8039719	8039720	8039721

**M12 x 1, High-Temperature-Connector
Angled Female Connector,
with Anti-Vibration-Locking**



Connector	female connector, M12 x 1, angled
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



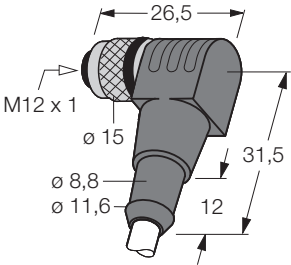
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	WWAK3-2/S2429/S2430 8039224	WWAK3-5/S2429/S2430 8036088	WWAK3-10/S2429/S2430 8039225
4-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	WWAK4-2/S2429/S2430 8039226	WWAK4-5/S2429/S2430 8036089	WWAK4-10/S2429/S2430 8037214

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M12 x 1, High-Temperature-Connector
Angled Female Connector,
with Anti-Vibration-Locking



Connector	female connector, M12 x 1, angled
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability

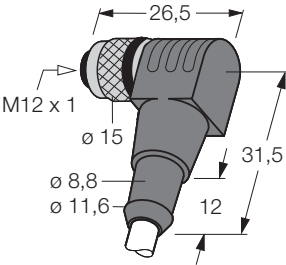


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
5-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	WWAK4.5-2/S2429/S2430 8039227	WWAK4.5-5/S2429/S2430 8036090	WWAK4.5-10/S2429/S... 8039228
8-pole 	PTFE, WH 8 x0.25 mm² / Ø 4.7 mm	WWAK8-2/S2429/S2430 8039229	WWAK8-5/S2429/S2430 8037024	WWAK8-10/S2429/S2430 8039230

**M12 x 1, High-Temperature-Connector
Angled Female Connector,
with Anti-Vibration-Locking**



Connector	female connector, M12 x 1, angled
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



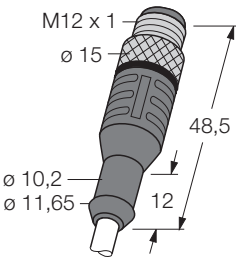
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PTFE, WH	WWAK12-2/S2429/S2430	WWAK12-5/S2429/S2430	WWAK12-10/S2429/S2430
	12 x0.14 mm ² / Ø 4.3 mm	8039940	8039941	8039942

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M12 x 1, High-Temperature-Connector
Straight Male Connector,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability

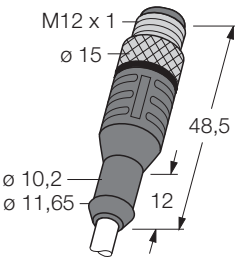


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	WAS3-2/S2429/S2430 8039231	WAS3-5/S2429/2430 8036091	WAS3-10/S2429/S2430 8039232
4-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	WAS4-2/S2429/S2430 8039233	WAS4-5/S2429/S2430 8036092	WAS4-10/S2429/S2430 8039234

**M12 x 1, High-Temperature-Connector
Straight Male Connector,
with Anti-Vibration-Locking**



Connector	male connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



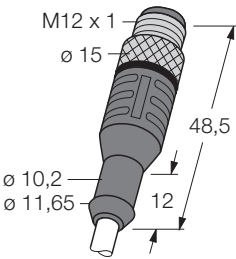
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
5-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	WAS4.5-2/S2429/S2430 8039235	WAS4.5-5/S2429/S2430 8036093	WAS4.5-10/S2429/S2430 8038342
8-pole 	PTFE, WH 8 x0.25 mm² / Ø 4.7 mm	WAS8-2/S2429/S2430 8039236	WAS8-5/S2429/S2430 8039237	WAS8-10/S2429/S2430 8039238

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M12 x 1, High-Temperature-Connector
Straight Male Connector,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



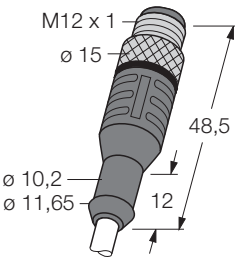
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PTFE, WH 12 x0.14 mm² / Ø 4.3 mm	WAS12-2/S2429/S2430 8039943	WAS12-5/S2429/S2430 8039944	WAS12-10/S2429/S2430 8039945

Subject to change without notice Edition: 11.2008

**M12 x 1, High-Temperature-Connector
Straight Male Connector, Shielded,
with Anti-Vibration-Locking**



Connector	male connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



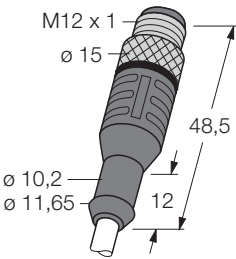
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PTFE, WH 5 x0.34 mm ² / Ø 4.5 mm	WASS3-2/S2429/S2430 8039239	WASS3-5/S2429/S2430 8039240	WASS3-10/S2429/S2430 8039241
4-pole 	PTFE, WH 5 x0.34 mm ² / Ø 4.5 mm	WASS4-2/S2429/S2430 8039242	WASS4-5/S2429/S2430 8039243	WASS4-10/S2429/S2430 8039244

Subject to change without notice Edition: 11.2008

M12 x 1, High-Temperature-Connector
Straight Male Connector, Shielded,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability

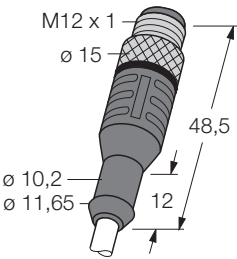


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
5-pole 	PTFE, WH 5 x0.34 mm² / Ø 4.5 mm	WASS4.5-2/S2429/S2430 8039245	WASS4.5-5/S2429/S2430 8039246	WASS4.5-10/S2429/S2430 8039247
8-pole 	PTFE, WH 8 x0.25 mm² / Ø 4.9 mm	WASS8-2/S2429/S2430 8039248	WASS8-5/S2429/S2430 8039249	WASS8-10/S2429/S2430 8039250

**M12 x 1, High-Temperature-Connector
Straight Male Connector, Shielded,
with Anti-Vibration-Locking**



Connector	male connector, M12 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



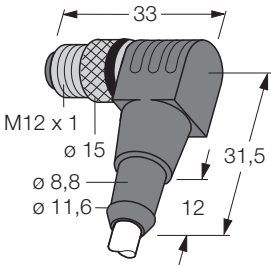
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PTFE, WH	WASS12-2/S2429/S2430	WASS12-5/S2429/S2430	WASS12-10/S2429/S2430
	12 x0.14 mm² / Ø 4.5 mm	8039946	8039947	8039948

Subject to change without notice Edition: 11.2008

M12 x 1, High-Temperature-Connector
Angled Male Connector,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, angled
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



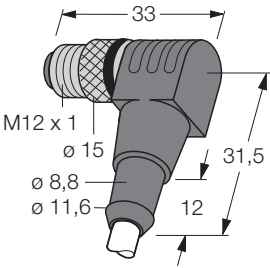
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	WWAS3-2/S2429/S2430 8039467	WWAS3-5/S2429/S2430 8036094	WWAS3-10/S2429/S2430 8039468
4-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	WWAS4-2/S2429/S2430 8039469	WWAS4-5/S2429/S2430 8036095	WWAS4-10/S2429/S2430 8039470

Subject to change without notice Edition: 11.2008

**M12 x 1, High-Temperature-Connector
Angled Male Connector,
with Anti-Vibration-Locking**



Connector	male connector, M12 x 1, angled
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



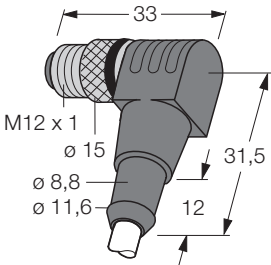
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
5-pole 	PTFE, WH 5 x 0.34 mm ² / Ø 3.8 mm	WWAS4.5-2/S2429/S2430 8039471	WWAS4.5-5/S2429/S2430 8036096	WWAS4.5-10/S2429/S2430 8039472
8-pole 	PTFE, WH 8 x 0.25 mm ² / Ø 4.7 mm	WWAS8-2/S2429/S2430 8039473	WWAS8-5/S2429/S2430 8039474	WWAS8-10/S2429/S2430 8039475

Subject to change without notice Edition: 11.2008

M12 x 1, High-Temperature-Connector
Angled Male Connector,
with Anti-Vibration-Locking



Connector	male connector, M12 x 1, angled
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole 	PTFE, WH 12 x0.14 mm² / Ø 4.3 mm	WWAS12-2/S2429/S2430 8039476	WWAS12-5/S2429/S2430 8039477	WWAS12-10/S2429/S2430 8039478

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M12 x 1, High-Temperature-Connector
Straight Female Connector -
Straight Male Connector

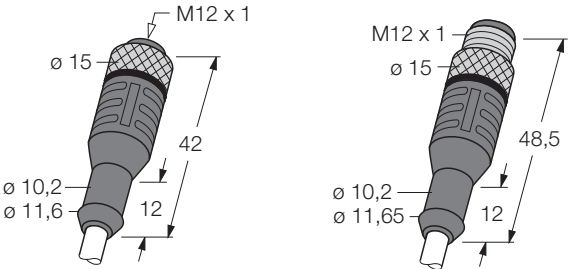


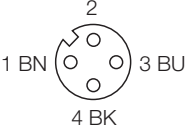
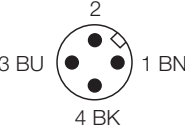
Connector female connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole  3-pole 	PTFE, WH 5 x 0.34 mm ² / Ø 3.8 mm	WAK3-2-WAS3/S2429/S2430 8039479	...-5-... 8039480	...-10-... 8039481

M12 x 1, High-Temperature-Connector
Straight Female Connector -
Straight Male Connector

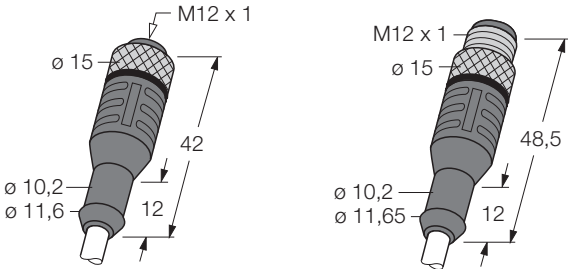


Connector female connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 	PTFE, WH	WAK4-2-WAS4/S2429/S2430	...-5-...	...-10-...
	5 x0.34 mm² / Ø 3.8 mm	8038668	8038669	8038670
4-pole 				

M12 x 1, High-Temperature-Connector
Straight Female Connector -
Straight Male Connector



Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

Seal

female connector, M12 x 1, straight

plastic, Polyester, black

metal, CuZn, nickel-plated

plastic, Polyester, black

metal, CuZn, gold-plated

plastic, FPM/FKM

Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

male connector, M12 x 1, straight

plastic, Polyester, black

metal, CuZn, nickel-plated

plastic, Polyester, black

metal, CuZn, gold-plated

Rated voltage

Ampacity

Insulation resistance

Forward resistance

Pollution degree

max. 60 V

4 A

$\geq 10^9 \Omega$

$\leq 5 \text{ m}\Omega$

3

Ambient temperature Connector

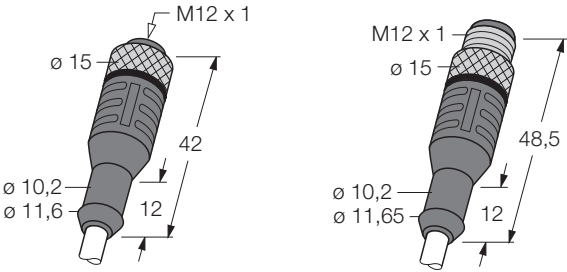
Degree of protection

Mechanical lifespan

-20 ... +150 °C

IP65, only in screwed status

min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
	Wire-construction			
5-pole 5-pole	PTFE, WH	WAK4.5-2-WAS4.5/S2429/S2430	...-5-...	...-10-...
	5 x0.34 mm² / Ø 3.8 mm	8039949	8039950	8039951

M12 x 1, High-Temperature-Connector
Straight Female Connector -
Straight Male Connector

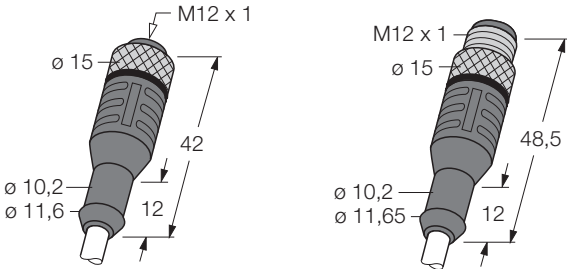


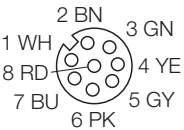
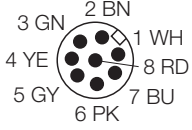
Connector female connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
8-pole  8-pole 	PTFE, WH 8 x0.25 mm² / Ø 4.7 mm	WAK8-2-WAS8/S2429/S2430 8039952	...-5-... 8039953	...-10-... 8039954

M12 x 1, High-Temperature-Connector
Straight Female Connector -
Straight Male Connector

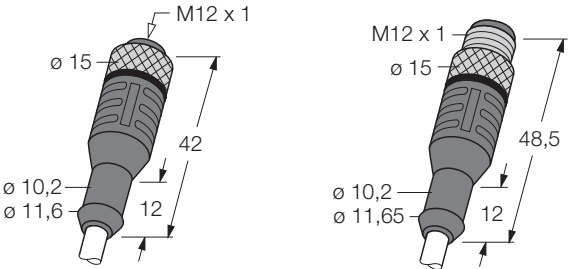


Connector female connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 1.5 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
	Wire-construction			
12-pole 12-pole 	PTFE, WH 12 x 0.14 mm ² / Ø 4.3 mm	WAK12-2-WAS12/S2429/S2430 8039955	...-5-... 8039956	...-10-... 8039957

Subject to change without notice Edition: 11.2008

M12 x 1, High-Temperature-Connector
Straight Female Connector, Shielded-
Straight Male Connector, Shielded



Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

Seal

female connector, M12 x 1, straight

plastic, Polyester, black

metal, CuZn, nickel-plated

plastic, Polyester, black

metal, CuZn, gold-plated

plastic, FPM/FKM

Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

male connector, M12 x 1, straight

plastic, Polyester, black

metal, CuZn, nickel-plated

plastic, Polyester, black

metal, CuZn, gold-plated

Rated voltage

Ampacity

Insulation resistance

Forward resistance

Pollution degree

max. 250 V

4 A

$\geq 10^9 \Omega$

$\leq 5 \text{ m}\Omega$

3

Ambient temperature Connector

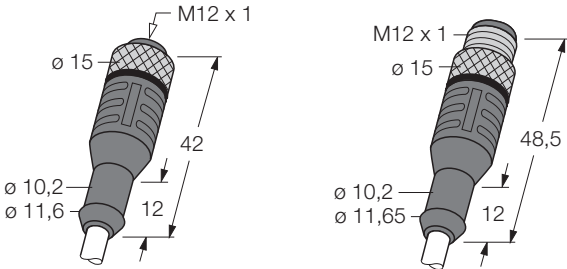
Degree of protection

Mechanical lifespan

-20 ... +150 °C

IP65, only in screwed status

min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 3-pole	PTFE, WH	WAKS3-2-WASS3/S2429/S2430	...-5-...	...-10-...
	5 x0.34 mm² / Ø 4.5 mm	8039996	8039997	8039998

M12 x 1, High-Temperature-Connector
Straight Female Connector, Shielded-
Straight Male Connector, Shielded

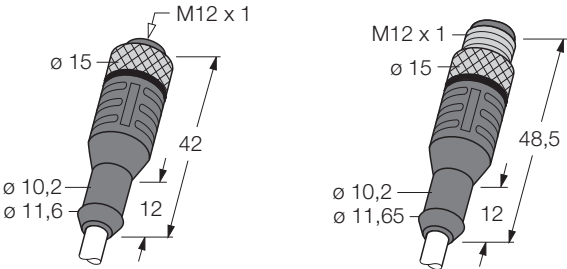


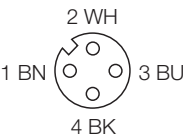
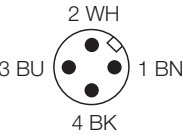
Connector female connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole  4-pole 	PTFE, WH	WAKS4-2-WASS4/S2429/S2430	...-5-...	...-10-...
	5 x 0.34 mm ² / Ø 4.5 mm	8039999	8040000	8040001

Subject to change without notice Edition: 11.2008

M12 x 1, High-Temperature-Connector
Straight Female Connector, Shielded-
Straight Male Connector, Shielded

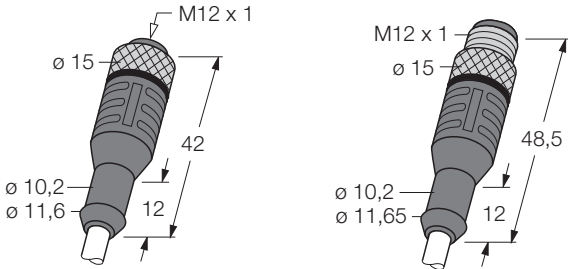


Connector female connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
5-pole 	PTFE, WH	WAKS4.5-2-WASS4.5/S2429/S2430	...-5-...	...-10-...
	5 x 0.34 mm² / Ø 4.5 mm	8040002	8040003	8040004
5-pole 				

M12 x 1, High-Temperature-Connector
Straight Female Connector, Shielded-
Straight Male Connector, Shielded

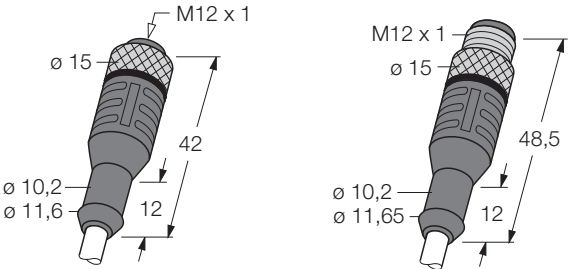


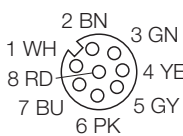
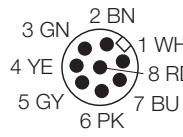
Connector female connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
8-pole  8-pole 	PTFE, WH 8 x 0.25 mm ² / Ø 4.9 mm	WAKS8-2-WASS8/S2429/S2430 8040005	...-5-... 8040006	...-10-... 8040007

Subject to change without notice Edition: 11.2008

M12 x 1, High-Temperature-Connector
Straight Female Connector, Shielded-
Straight Male Connector, Shielded

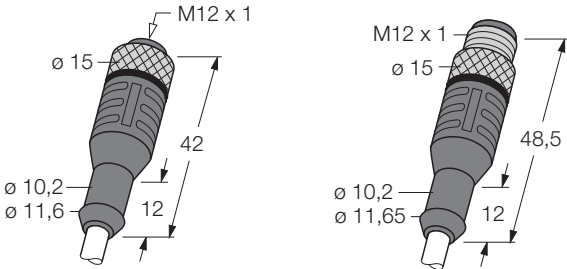


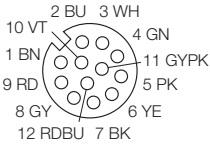
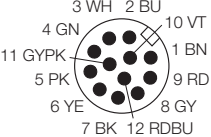
Connector female connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 1.5 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



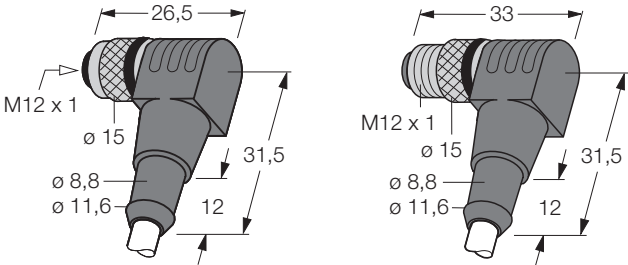
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
12-pole  12-pole 	PTFE, WH 12 x0.14 mm² / Ø 4.5 mm	WAKS12-2-WASS12/S2429/S2430 8040008	...-5-... 8040009	...-10-... 8040010

M12 x 1, High-Temperature-Connector
Angled Female Connector -
Angled Male Connector



Connector female connector, M12 x 1, angled
 Grip plastic, Polyester, black
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, Polyester, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
 Grip plastic, Polyester, black
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, Polyester, black
 Contacts metal, CuZn, gold-plated



Rated voltage max. 250 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
 Degree of protection IP65, only in screwed status
 Mechanical lifespan min. 100 contact durability

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
3-pole 3-pole 	PTFE, WH	WWAK3-2-WWAS3/S2429/S2430	...-5-...	...-10-...
	5 x0.34 mm ² / Ø 3.8 mm	8039958	8039959	8039960

M12 x 1, High-Temperature-Connector
Angled Female Connector -
Angled Male Connector

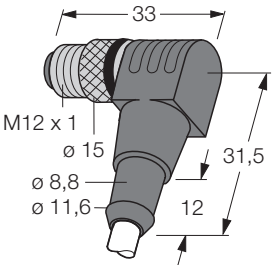
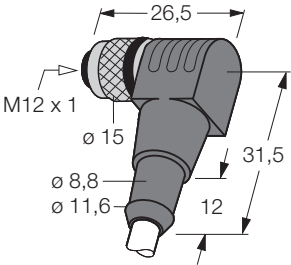


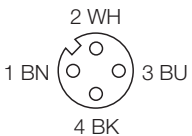
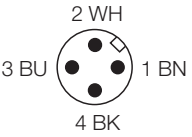
Connector female connector, M12 x 1, angled
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



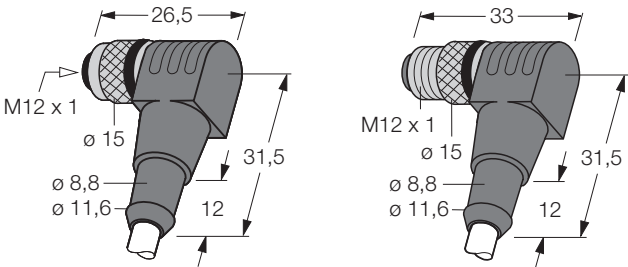
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 	PTFE, WH	VWAK4-2-WWAS4/S2429/S2430	...-5-...	...-10-...
	5 x 0.34 mm ² / Ø 3.8 mm	8039961	8039137	8039962
4-pole 				

M12 x 1, High-Temperature-Connector
Angled Female Connector -
Angled Male Connector



Connector female connector, M12 x 1, angled
 Grip plastic, Polyester, black
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, Polyester, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
 Grip plastic, Polyester, black
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, Polyester, black
 Contacts metal, CuZn, gold-plated



Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
 Degree of protection IP65, only in screwed status
 Mechanical lifespan min. 100 contact durability

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
	Wire-construction			
5-pole 5-pole 	PTFE, WH	WWAK4.5-2-WWAS4.5/S2429/S2430	...-5-...	...-10-...
	5 x 0.34 mm² / Ø 3.8 mm	8039963	8039964	8039965

M12 x 1, High-Temperature-Connector
Angled Female Connector -
Angled Male Connector

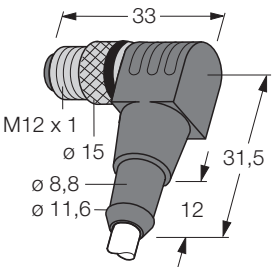
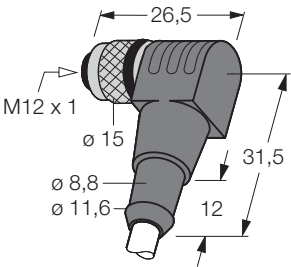


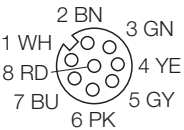
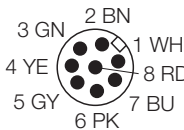
Connector female connector, M12 x 1, angled
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
8-pole 	PTFE, WH 8 x 0.25 mm ² / Ø 4.7 mm	VWAK8-2-WWAS8/S2429/S2430	...-5-...	...-10-...
		8039966	8039967	8039968
8-pole 				

M12 x 1, High-Temperature-Connector
Angled Female Connector -
Angled Male Connector

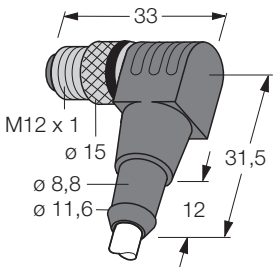
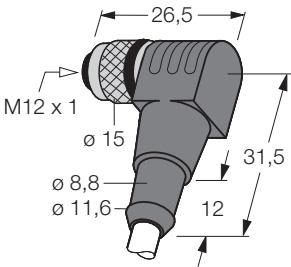


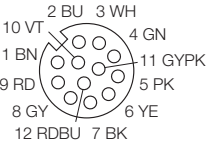
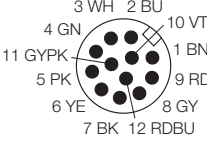
Connector female connector, M12 x 1, angled
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 1.5 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
	Wire-construction			
12-pole 	PTFE, WH	WWAK12-2-WWAS12/S2429/S2430	...-5-...	...-10-...
	12 x 0.14 mm ² / Ø 4.3 mm	8039969	8039970	8039971
12-pole 				

M8 x 1, High-Temperature-Connector
Straight Female Connector



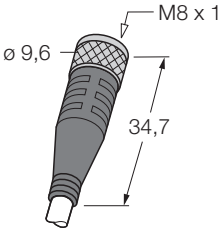
Connector female connector, M8 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Polarity 3-pole
Ampacity 4 A
Rated voltage max. 60 V

Polarity 4-pole
Ampacity 4 A
Rated voltage max. 30 V

Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability

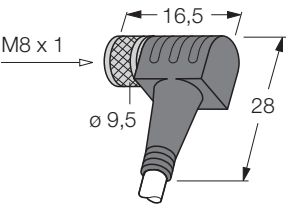


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	SKP3-2/S2429/S2430 8036605	SKP3-5/S2429/S2430 8036097	SKP3-10/S2429/S2430 8039482
4-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	SKP4-2/S2429/S2430 8039483	SKP4-5/S2429/S2430 8036098	SKP4-10/S2429/S2430 8037215

M8 x 1, High-Temperature-Connector
Angled Female Connector



Connector	female connector, M8 x 1, angled
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 30 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



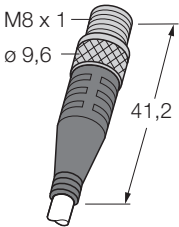
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PTFE, WH 5 x 0.34 mm ² / Ø 3.8 mm	SWKP3-2/S2429/S2430 8039484	SWKP3-5/S2429/S2430 8036099	SWKP3-10/S2429/S2430 8039485
4-pole 	PTFE, WH 5 x 0.34 mm ² / Ø 3.8 mm	SWKP4-2/S2429/S2430 8039486	SWKP4-5/S2429/S2430 8036100	SWKP4-10/S2429/S2430 8037216

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M8 x 1, High-Temperature-Connector
Straight Male Connector



Connector	male connector, M8 x 1, straight
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



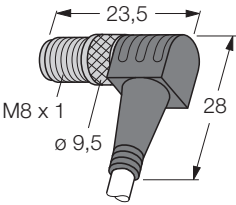
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	SSP3-2/S2429/S2430 8039487	SSP3-5/S2429/S2430 8036101	SSP3-10/S2429/S2430 8039488
4-pole 	PTFE, WH 5 x0.34 mm² / Ø 3.8 mm	SSP4-2/S2429/S2430 8039489	SSP4-5/S2429/S2430 8036102	SSP4-10/S2429/S2430 8039490

Subject to change without notice Edition: 11.2008

M8 x 1, High-Temperature-Connector
Angled Male Connector



Connector	male connector, M8 x 1, angled
Grip	plastic, Polyester, black
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PTFE, WH 5 x 0.34 mm ² / Ø 3.8 mm	SWSP3-2/S2429/S2430 8039491	SWSP3-5/S2429/S2430 8036103	SWSP3-10/S2429/S2430 8039492
4-pole 	PTFE, WH 5 x 0.34 mm ² / Ø 3.8 mm	SWSP4-2/S2429/S2430 8039493	SWSP4-5/S2429/S2430 8036104	SWSP4-10/S2429/S2430 8039494

Subject to change without notice Edition: 11.2008

M8 x 1, High-Temperature-Connector
Straight Female Connector -
Straight Male Connector

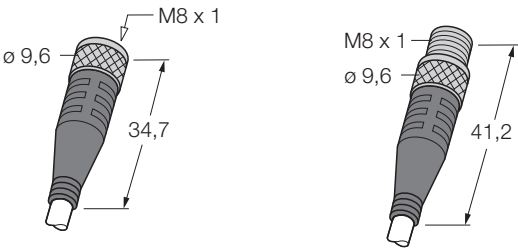


Connector female connector, M8 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M8 x 1, straight
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
3-pole 	PTFE, WH	SKP3-2-SSP3/S2429/S2430	...-5-...	...-10-...
	5 x0.34 mm² / Ø 3.8 mm	8039972	8039973	8039974
3-pole 				

M8 x 1, High-Temperature-Connector
Straight Female Connector -
Straight Male Connector

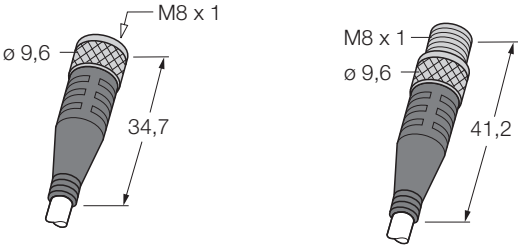


Connector female connector, M8 x 1, straight
 Grip plastic, Polyester, black
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, Polyester, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M8 x 1, straight
 Grip plastic, Polyester, black
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, Polyester, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
 Degree of protection IP65, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 4 BK ○ ○ ○ ○ 2 WH 3 BU 1 BN 4-pole 2 WH ● ● ● ● 4 BK 1 BN 3 BU	PTFE, WH	SKP4-2-SSP4/S2429/S2430	...-5-...	...-10-...
	5 x0.34 mm² / Ø 3.8 mm	8039975	8039976	8039977

2 WH

● ●

● ●

4 BK

1 BN

● ●

● ●

3 BU

M8 x 1, High-Temperature-Connector
Angled Female Connector -
Angled Male Connector

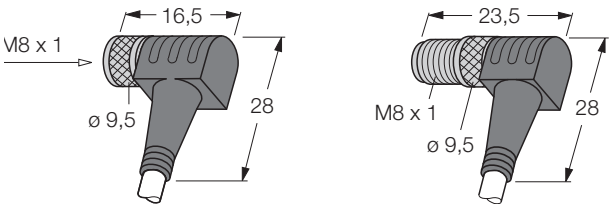


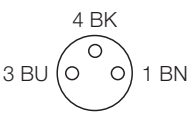
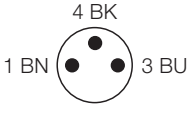
Connector female connector, M8 x 1, angled
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M8 x 1, angled
Grip plastic, Polyester, black
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, Polyester, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -20 ... +150 °C
Degree of protection IP65, only in screwed status
Mechanical lifespan min. 100 contact durability



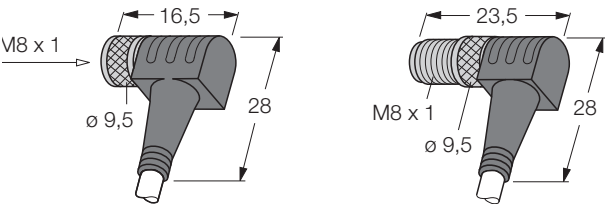
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
3-pole 	PTFE, WH	SWKP3-2-SWSP3/S2429/S2430	...-5-...	...-10-...
	5 x 0.34 mm ² / Ø 3.8 mm	8039978	8039979	8039980
3-pole 				

M8 x 1, High-Temperature-Connector
Angled Female Connector -
Angled Male Connector



Connector female connector, M8 x 1, angled
 Grip plastic, Polyester, black
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, Polyester, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M8 x 1, angled
 Grip plastic, Polyester, black
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, Polyester, black
 Contacts metal, CuZn, gold-plated



Rated voltage max. 30 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

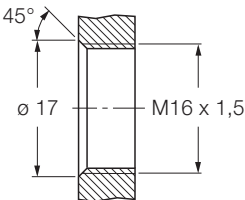
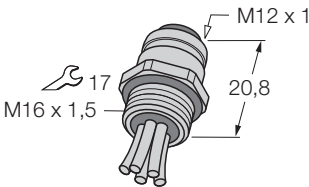
Ambient temperature Connector -20 ... +150 °C
 Degree of protection IP65, only in screwed status
 Mechanical lifespan min. 100 contact durability

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN 4-pole 2 WH 4 BK 1 BN 3 BU	PTFE, WH	SWKP4-2-SWSP4/S2429/S2430	...-5-...	...-10-...
	5 x0.34 mm² / Ø 3.8 mm	8039981	8039982	8039983

M12 x 1, High-Temperature-Connector
Female Flange Connector with Wire,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability

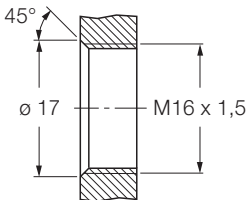
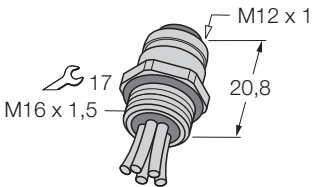


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PTFE 3 x0.34 mm ²	EC-FK3-0,5/16/S2470 8037311
4-pole 	PTFE 4 x0.34 mm ²	EC-FK4-0,5/16/S2470 8037322
5-pole 	PTFE 5 x0.34 mm ²	EC-FK4.5-0,5/16/S2470 8037323

**M12 x 1, High-Temperature-Connector
Female Flange Connector with Wire,
Metrical Screw In Thread M16 x 1,5**



Connector	female flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, FPM/FKM
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



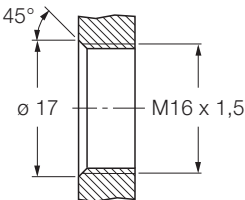
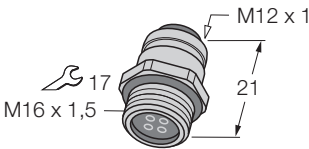
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
8-pole	PTFE 8 x0.25 mm ²	EC-FK8-0,5/16/S2470 8037324
12-pole	PTFE 12 x0.14 mm ²	EC-FK12-0,5/16/S2470 8037325

Subject to change without notice Edition: 11.2008

M12 x 1, High-Temperature-Connector
Female Flange Connector with Soldering-Contacts,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



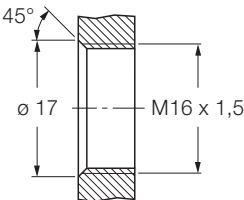
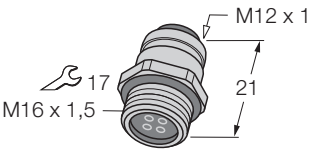
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		EC-FK3-L/16/S2470 8039662
4-pole 		EC-FK4-L/16/S2470 8039663
5-pole 		EC-FK5-L/16/S2470 8039664

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M12 x 1, High-Temperature-Connector
Female Flange Connector with Soldering-Contacts,
Metrical Screw In Thread M16 x 1,5



Connector	female flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, FPM/FKM
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



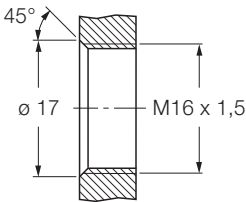
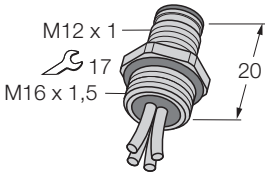
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole		EC-FK8-L/16/S2470 8039679
12-pole		EC-FK12-L/16/S2470 8039680

Subject to change without notice Edition: 11.2008

M12 x 1, High-Temperature-Connector
Male Flange Connector with Wire,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability

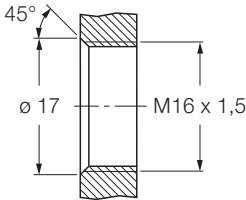
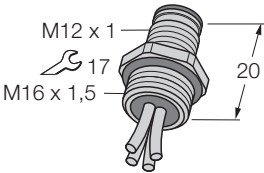


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 	PTFE 3 x 0.34 mm ²	EC-FS3-0,5/16/S2470 8037288
4-pole 	PTFE 4 x 0.34 mm ²	EC-FS4-0,5/16/S2470 8037292
5-pole 	PTFE 5 x 0.34 mm ²	EC-FS4.5-0,5/16/S2470 8037293

M12 x 1, High-Temperature-Connector
Male Flange Connector with Wire,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with wire
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, FPM/FKM
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



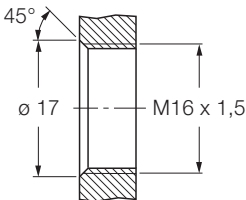
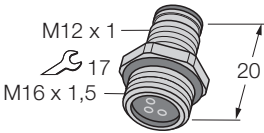
		Standard cable-length
		0.5 m
Coding	Cable-quality	Type-designation Order-number
8-pole	PTFE 8 x0.25 mm²	EC-FS8-0,5/16/S2470 8037294
12-pole	PTFE 12 x0.14 mm²	EC-FS12-0,5/16/S2470 8037295

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M12 x 1, High-Temperature-Connector
Male Flange Connector with Soldering-Contacts,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability

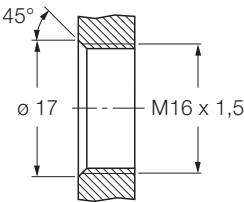
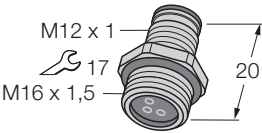


		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
3-pole 		EC-FS3-L/16/S2470 8039645
4-pole 		EC-FS4-L/16/S2470 8036275
5-pole 		EC-FS4.5-L/16/S2470 8039647

M12 x 1, High-Temperature-Connector
Male Flange Connector with Soldering-Contacts,
Metrical Screw In Thread M16 x 1,5



Connector	male flange connector, M12 x 1, with soldering-contacts
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, Polyester, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, FPM/FKM
Polarity	8-pole
Ampacity	2 A
Rated voltage	max. 30 V
Polarity	12-pole
Ampacity	1.5 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-20 ... +150 °C
Degree of protection	IP65, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
8-pole		EC-FS8-L/16/S2470 8038811
12-pole		EC-FS12-L/16/S2470 8039661

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Food & Beverage plus

Food & Beverage plus is the new standard for the food industry.

All components are resistant to all common acid and alkaline detergents and disinfectants. Due to cleaning resistant plastics hardenings and discolouration are avoided.

Resistant to all common acid and alkaline cleaning and disinfectants agents



Dust- and waterproof according to IEC 60529



Protected against water with high pressure and steam jet cleaning in accordance with IEC 60529



No hardening, no discolouring by cleaning through detergent-resistant, PVC-free plastics



Heat and cold-resistantly
Service temperature range
-40°C to +105°C



Flame-adversely cable



As standard, cable terminals converted with wire-end sleeves



M12x1 Coupling straight	9.1

M12x1 Coupling angled	9.2 – 9.3

M12x1 Plug straight	9.4

M12x1 Plug angled	9.5

M12x1 Connecting-cables	9.6 – 9.11

M8x1 Coupling straight	9.12

M8x1 Coupling angled	9.13

M8x1 Plug straight	9.14

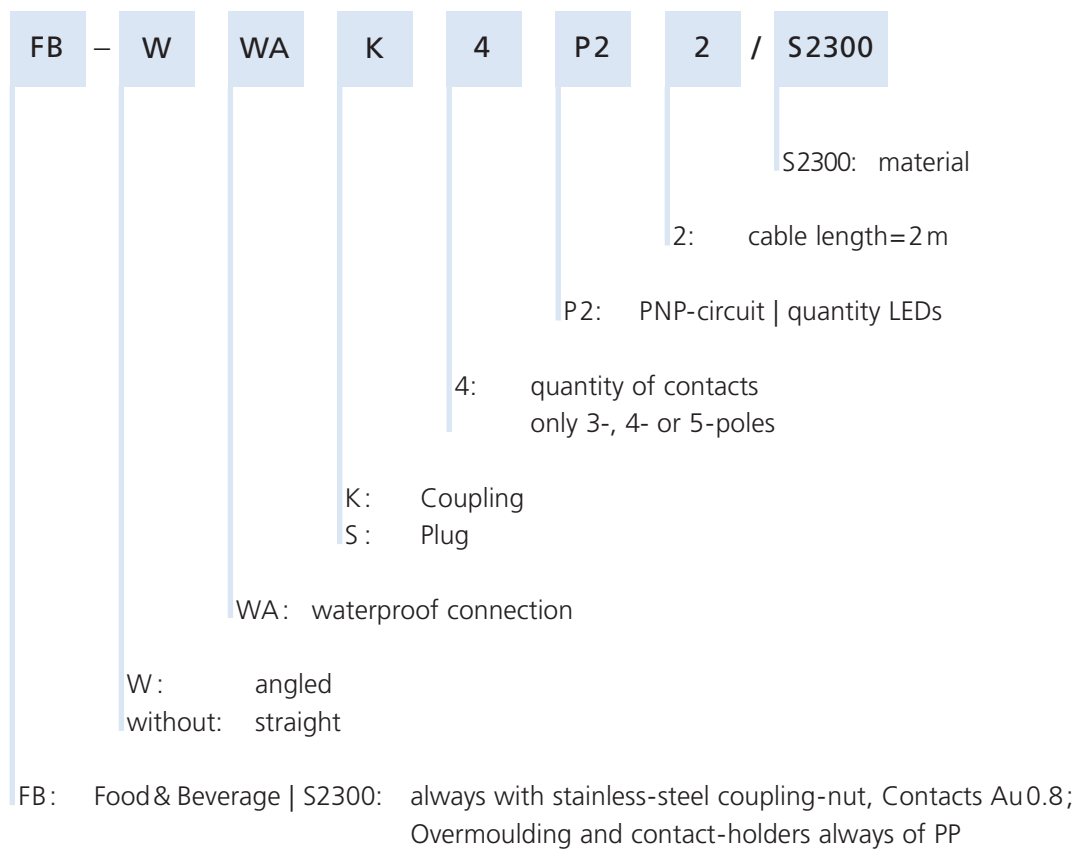
M8x1 Plug angled	9.15

M8x1 Connecting-cables	9.16 – 9.19

Flange coupling PG9-thread	9.20 – 9.21

Flange plug PG9-thread	9.22 – 9.23

Nomenclature M12x1 Food & Beverage plus

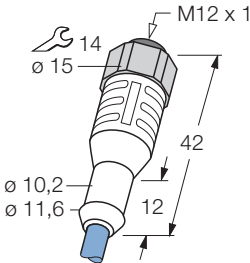


Non appropriate will be let out.

M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Straight Female Connector



Connector	female connector, M12 x 1, straight
Grip	plastic, PP, white
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability



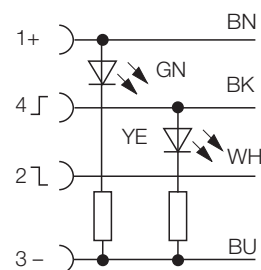
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PP, BU 4 x 0.34 mm ² / Ø 4.6 mm	FB-WAK4-2/S2300 8034191	FB-WAK4-5/S2300 8033664	FB-WAK4-10/S2300 8033665

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Edition: 11.2008

Technical drawing of the LED light head (Fig. 1). The drawing shows a perspective view of the head with the following dimensions and labels:

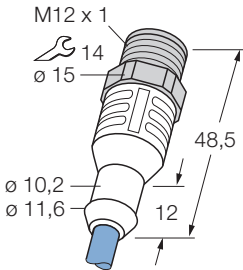
- Overall length: 26,5
- Distance from mounting bracket to LED array: 14
- LED array label: LEDs
- Mounting bracket label: M12 x 1
- Outer diameter of the main body: $\varnothing 15$
- Inner diameter of the main body: $\varnothing 8,8$
- Distance from the main body to the LED array: 31,5
- Distance from the main body to the LED array (alternative measurement): 12
- Inner diameter of the main body (bottom): $\varnothing 11,6$

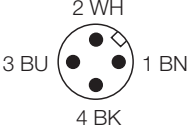


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M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Straight Male Connector

Connector	male connector, M12 x 1, straight
Grip	plastic, PP, white
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability

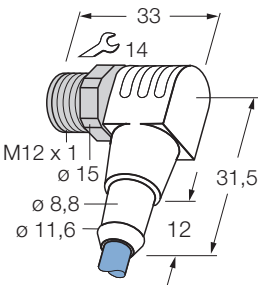


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PP, BU	FB-WAS4-2/S2300	FB-WAS4-5/S2300	FB-WAS4-10/S2300
	4 x0.34 mm² / Ø 4.6 mm	8039303	8033670	8033671

M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Angled Male Connector



Connector	male connector, M12 x 1, angled
Grip	plastic, PP, white
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 2 WH 3 BU 1 BN 4 BK	PP, BU	FB-WWAS4-2/S2300	FB-WWAS4-5/S2300	FB-WWAS4-10/S2300
	4 x 0.34 mm ² / Ø 4.6 mm	8039304	8033673	8033674

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M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Straight Female Connector -
Straight Female Connector

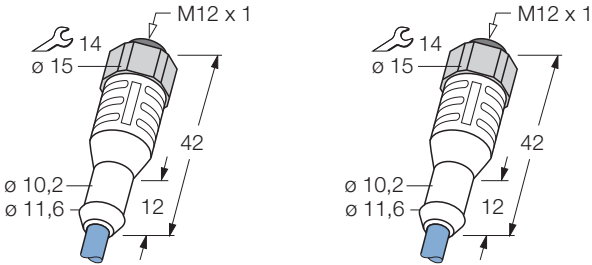


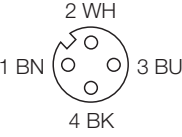
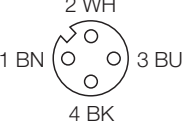
Connector female connector, M12 x 1, straight
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector female connector, M12 x 1, straight
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Rated voltage max. 250 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -40 ... +105 °C
Degree of protection IP67, IP69K, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 	PP, BU 4 x0.34 mm² / Ø 4.6 mm	FB-WAK4-2-FB-WAK4/S2300 8039305	...-5-... 8033681	...-10-... 8033682
4-pole 				

M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Straight Female Connector -
Straight Male Connector

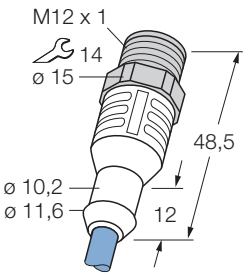
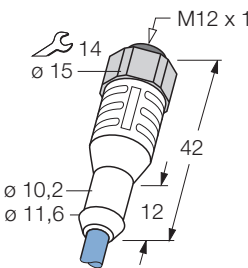


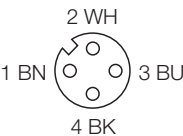
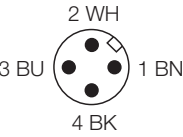
Connector female connector, M12 x 1, straight
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -40 ... +105 °C
Degree of protection IP67, IP69K, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole  4-pole 	PP, BU 4 x 0.34 mm ² / Ø 4.6 mm	FB-WAK4-2-FB-WAS4/S2300 8034685	...-5-... 8033677	...-10-... 8033678

M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Straight Male Connector -
Straight Male Connector

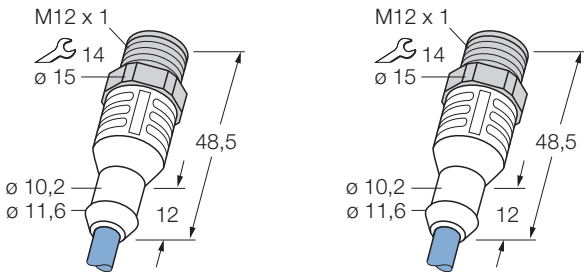


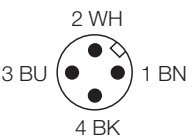
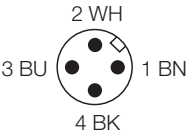
Connector male connector, M12 x 1, straight
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated

Connector male connector, M12 x 1, straight
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -40 ... +105 °C
Degree of protection IP67, IP69K, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 	PP, BU	FB-WAS4-2-FB-WAS4/S2300	...-5-...	...-10-...
	4 x0.34 mm² / Ø 4.6 mm	8039306	8033685	8033686
4-pole 				

M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Angled Female Connector -
Angled Female Connector



- Connector

female connector, M12 x 1, angled
- Grip

plastic, PP, white
- Coupling nut/screw

stainless steel, 1.4404
- Contact carriers

plastic, PPH GF, black
- Contacts

metal, CuZn, gold-plated
- Seal

plastic, FPM/FKM
-
- Connector

female connector, M12 x 1, angled
- Grip

plastic, PP, white
- Coupling nut/screw

stainless steel, 1.4404
- Contact carriers

plastic, PPH GF, black
- Contacts

metal, CuZn, gold-plated
- Seal

plastic, FPM/FKM
-
- Rated voltage

max. 250 V
- Ampacity

4 A
- Insulation resistance

$\geq 10^9 \Omega$
- Forward resistance

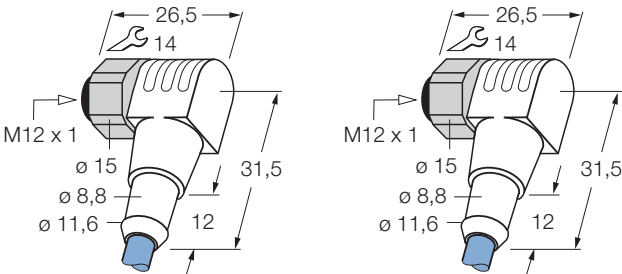
$\leq 5 \text{ m}\Omega$
- Pollution degree

3
-
- Ambient temperature Connector

-40 ... +105 °C
- Degree of protection

IP67, IP69K, only in screwed status
- Mechanical lifespan

min. 100 contact durability

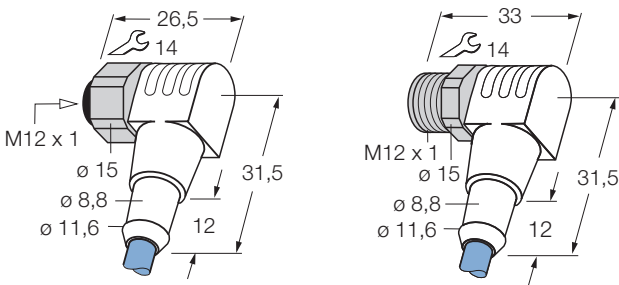


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
	Wire-construction			
4-pole 4-pole	PP, BU	FB-WWAK4-2-FB-WWAK4/S2300	...-5-...	...-10-...
	4 x 0.34 mm ² / Ø 4.6 mm	8039307	8033693	8033694

M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Angled Female Connector -
Angled Male Connector



Connector	female connector, M12 x 1, angled
Grip	plastic, PP, white
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	male connector, M12 x 1, angled
Grip	plastic, PP, white
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PPH GF
Contacts	metal, CuZn, gold-plated
Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability

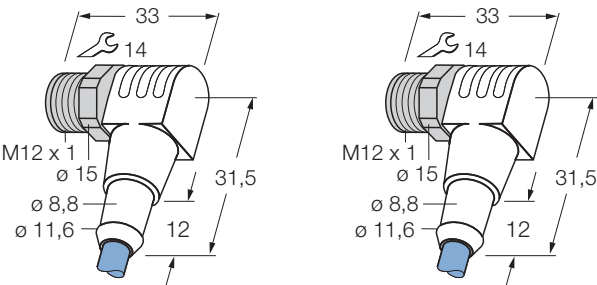


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
	Wire-construction			
4-pole 	PP, BU	FB-WWAK4-2-FB-VVWAS4/S2300	...-5-...	...-10-...
	4 x 0.34 mm ² / Ø 4.6 mm	8035949	8033689	8033690
4-pole 				

M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Angled Male Connector -
Angled Male Connector

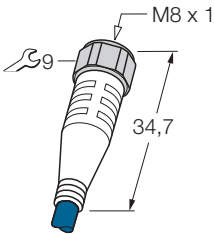


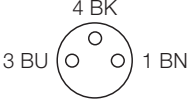
Connector	male connector, M12 x 1, angled
Grip	plastic, PP, white
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Connector	male connector, M12 x 1, angled
Grip	plastic, PP, white
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PPH GF
Contacts	metal, CuZn, gold-plated
Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole 4-pole 	PP, BU 4 x 0.34 mm ² / Ø 4.6 mm	FB-WWAS4-2-FB-WWAS4/S2300 8039308	...-5-... 8033697	...-10-... 8033698

Connector	female connector, M8 x 1, straight
Grip	plastic, PP, white
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability

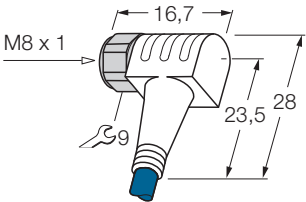


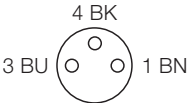
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PP, BU 4 x0.34 mm² / Ø 4.6 mm	FB-SKP3-2/S2300 8039414	FB-SKP3-5/S2300 8035188	FB-SKP3-10/S2300 8039415
4-pole 	PP, BU 4 x0.34 mm² / Ø 4.6 mm	FB-SKP4-2/S2300 8036165	FB-SKP4-5/S2300 8035867	FB-SKP4-10/S2300 8036166

M8 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Angled Female Connector



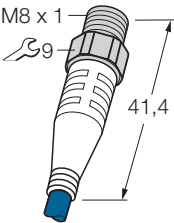
Connector	female connector, M8 x 1, angled
Grip	plastic, PP, white
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PP, BU 4 x 0.34 mm ² / Ø 4.6 mm	FB-SWKP3-2/S2300 8039416	FB-SWKP3-5/S2300 8035868	FB-SWKP3-10/S2300 8039417
4-pole 	PP, BU 4 x 0.34 mm ² / Ø 4.6 mm	FB-SWKP4-2/S2300 8039418	FB-SWKP4-5/S2300 8035869	FB-SWKP4-10/S2300 8039420

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Connector	male connector, M8 x 1, straight
Grip	plastic, PP, white
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability

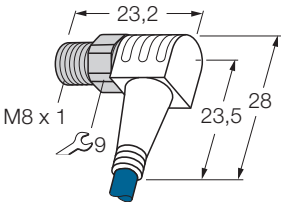


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 4 BK 1 BN 3 BU	PP, BU 4 x0.34 mm² / Ø 4.6 mm	FB-SSP3-2/S2300 8039419	FB-SSP3-5/S2300 8035870	FB-SSP3-10/S2300 8039421
4-pole 2 WH 4 BK 1 BN 3 BU	PP, BU 4 x0.34 mm² / Ø 4.6 mm	FB-SSP4-2/S2300 8039422	FB-SSP4-5/S2300 8035871	FB-SSP4-10/S2300 8039423

M8 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Angled Male Connector



Connector	male connector, M8 x 1, angled
Grip	plastic, PP, white
Coupling nut/screw	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Polarity	3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 4 BK 1 BN 3 BU	PP, BU 4 x0.34 mm² / Ø 4.6 mm	FB-SWSP3-2/S2300 8039424	FB-SWSP3-5/S2300 8035872	FB-SWSP3-10/S2300 8039425
4-pole 2 WH 4 BK 1 BN 3 BU	PP, BU 4 x0.34 mm² / Ø 4.6 mm	FB-SWSP4-2/S2300 8039426	FB-SWSP4-5/S2300 8035873	FB-SWSP4-10/S2300 8039427

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M8 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Straight Female Connector -
Straight Male Connector

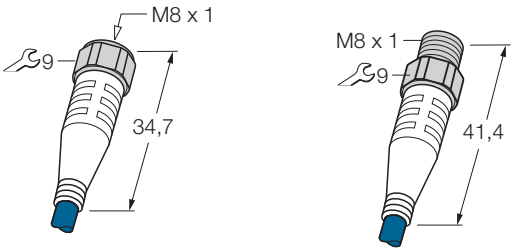


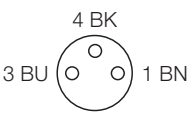
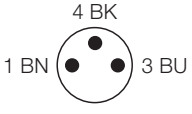
Connector female connector, M8 x 1, straight
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M8 x 1, straight
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -40 ... +105 °C
Degree of protection IP67, IP69K, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PP, BU 4 x0.34 mm² / Ø 4.6 mm	FB-SKP3-2-FB-SSP3/S2300 8039696	...-5-... 8039697	...-10-... 8039698
3-pole 				

M8 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Straight Female Connector -
Straight Male Connector

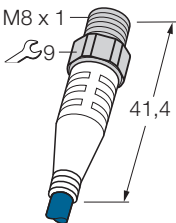
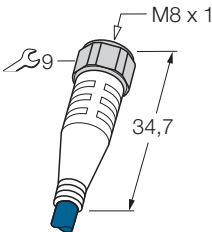


Connector female connector, M8 x 1, straight
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M8 x 1, straight
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -40 ... +105 °C
Degree of protection IP67, IP6K, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole 4 BK 3 BU 2 WH 1 BN 4-pole 2 WH 1 BN 4 BK 3 BU	PP, BU 4 x 0.34 mm ² / Ø 4.6 mm	FB-SKP4-2-FB-SSP4/S2300 8039699	...-5-... 8039700	...-10-... 8039701

M8 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Angled Female Connector -
Angled Male Connector

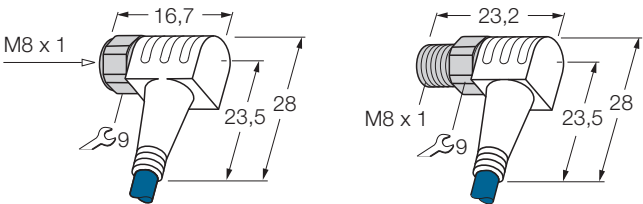


Connector female connector, M8 x 1, angled
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M8 x 1, angled
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -40 ... +105 °C
Degree of protection IP67, IP69K, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
3-pole 	PP, BU 4 x0.34 mm² / Ø 4.6 mm	FB-SWKP3-2-FB-SWSP3/S2300 8039702	...-5-... 8039703	...-10-... 8039704
3-pole 				

M8 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Angled Female Connector -
Angled Male Connector

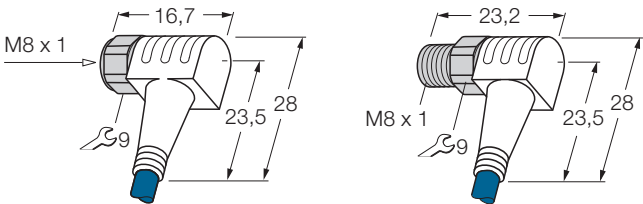


Connector female connector, M8 x 1, angled
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M8 x 1, angled
Grip plastic, PP, white
Coupling nut/screw stainless steel, 1.4404
Contact carriers plastic, PPH GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -40 ... +105 °C
Degree of protection IP67, IP69K, only in screwed status
Mechanical lifespan min. 100 contact durability

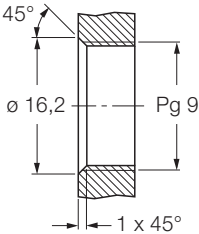
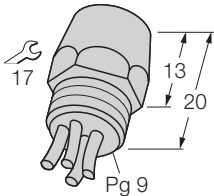


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN 4-pole 2 WH 4 BK 1 BN 3 BU	PP, BU	FB-SWKP4-2-FB-SWSP4/S2300	...-5-...	...-10-...
	4 x 0.34 mm ² / Ø 4.6 mm	8039705	8039706	8039707

**M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Female Flange Connector with Wire**



Connector	female flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability

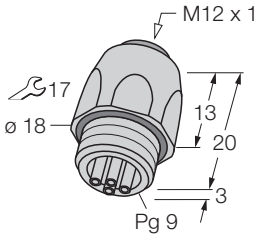


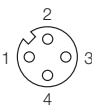
		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 	PVC 4 x0.34 mm²	FB-FK4-0,5/S2300 8033631

M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Female Flange Connector with Soldering-Contacts



Connector	female flange connector, M12 x 1, with soldering-contacts
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Screw-in thread seal	plastic, NBR
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability



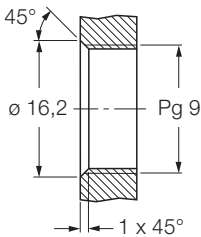
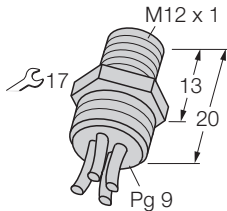
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		FB-FK4-L/S2300 8033633

Subject to change without notice Edition: 11.2008

**M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Male Flange Connector with Wire**



Connector	male flange connector, M12 x 1, with wire
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability

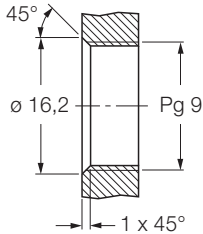
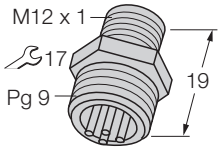


		Standard cable-length 0.5 m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 	PVC 4 x0.34 mm ²	FB-FS4-0,5/S2300 8033632

M12 x 1, Food & Beverage Plus
Detergent-Resistant-Connector
Male Flange Connector with Soldering-Contacts



Connector	male flange connector, M12 x 1, with soldering contacts
Flange housing	stainless steel, 1.4404
Contact carriers	plastic, PPH GF, black
Contacts	metal, CuZn, gold-plated
Screw-in thread seal	plastic, NBR
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-40 ... +105 °C
Degree of protection	IP67, IP69K, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		FB-FS4-L/S2300 8033634

Subject to change without notice Edition: 11.2008



Valve Connector

Our valve connectors are suited to connect pneumatic and hydraulic valves as well as pressure switches. The connectors come in construction types A, B, I and C.

Dust- and waterproof
according to IEC 60529

IP67

As standard, cable
terminals converted
with wire-end sleeves



Valve Connector type A	10.1 – 10.14

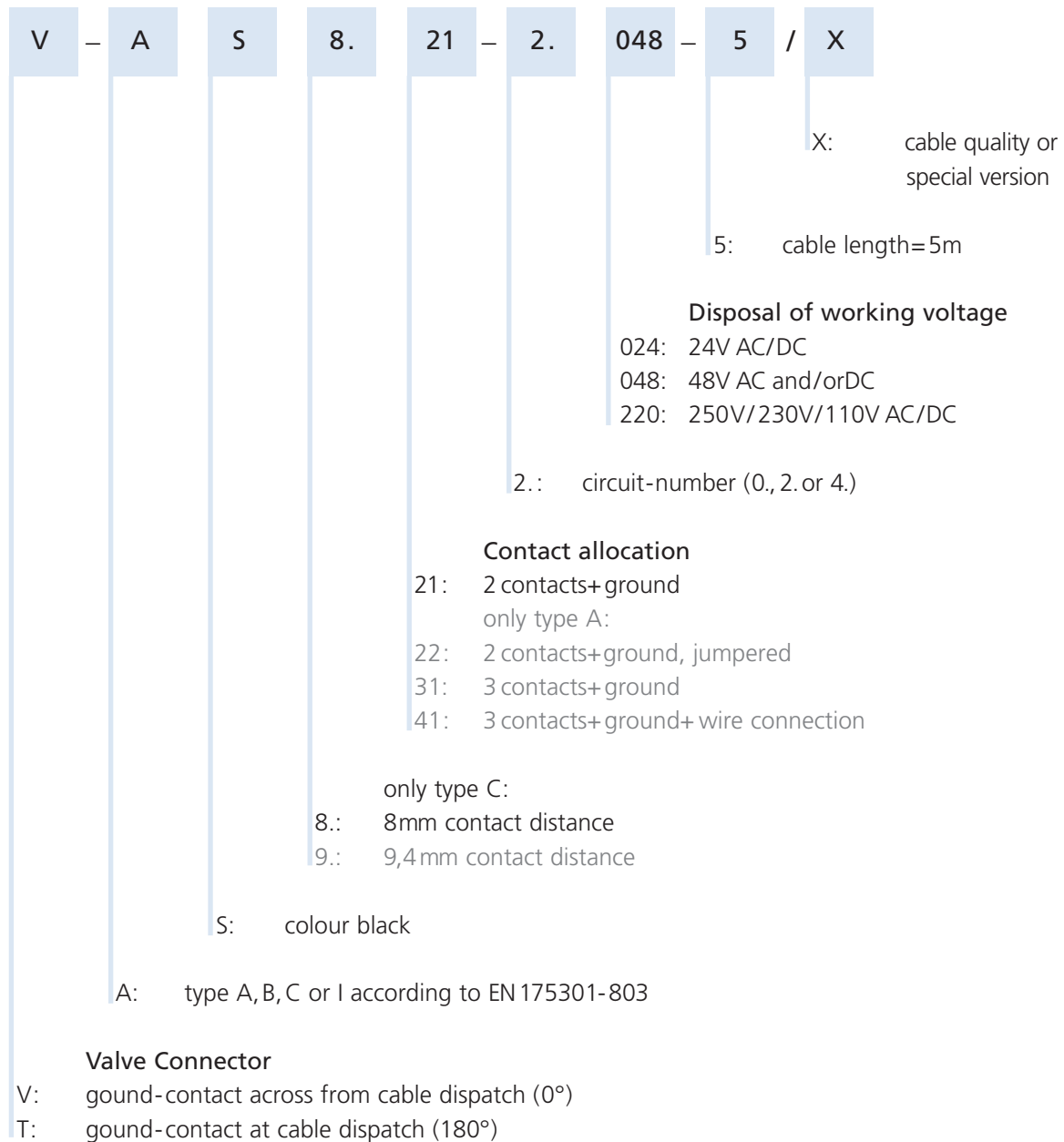
Valve Connector type B	10.15 – 10.20

Valve Connector type industry	10.21 – 10.26

Valve Connector type C contact distance 8mm	10.27 – 10.32

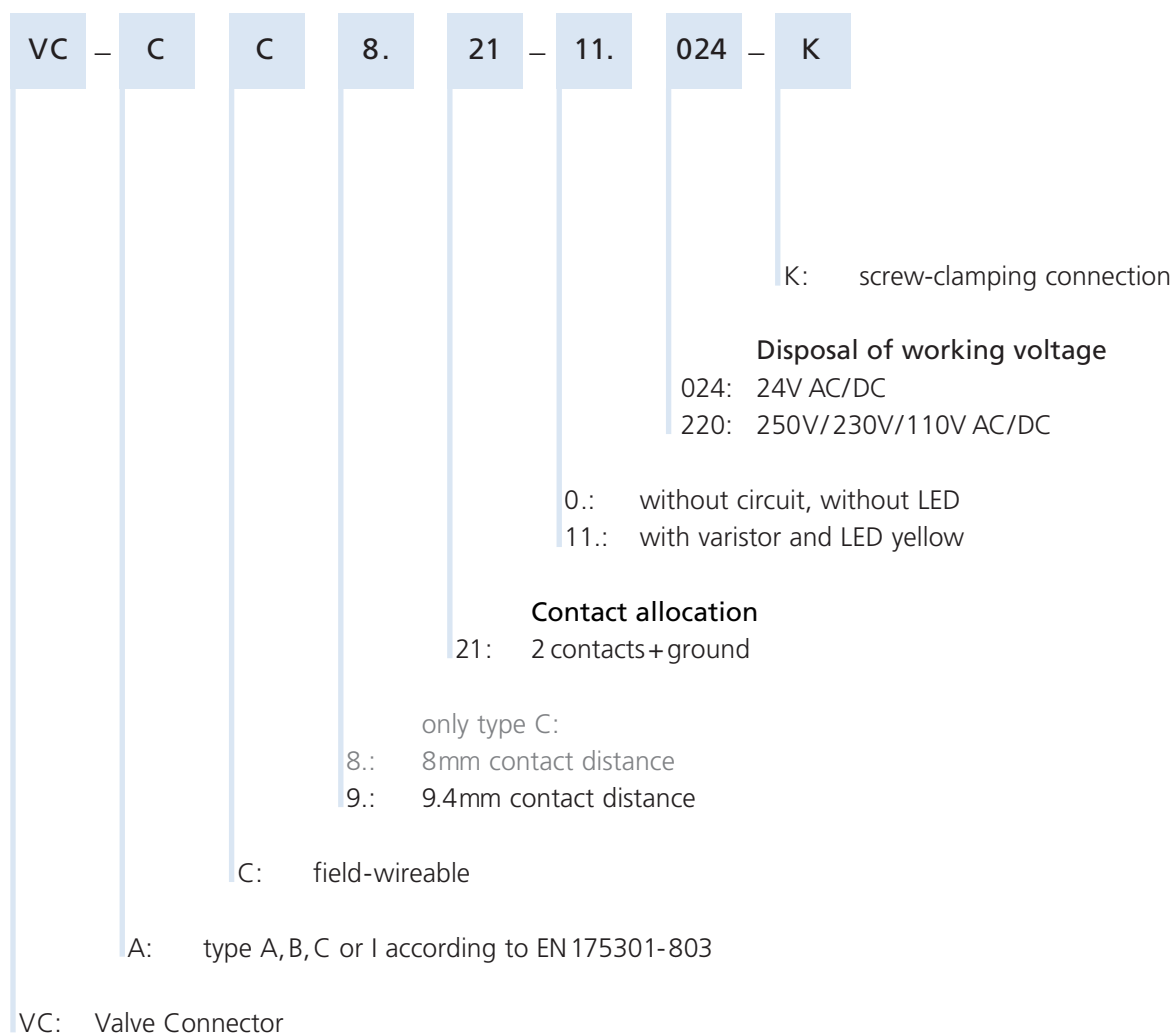
Valve Connector type C contact distance 9.4mm	10.33 – 10.38

Nomenclature Valve Connector



Non appropriate will be let out.

Nomenclature Valve Connector field-wireable

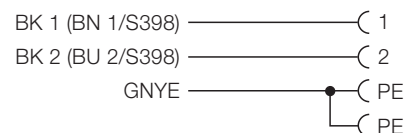
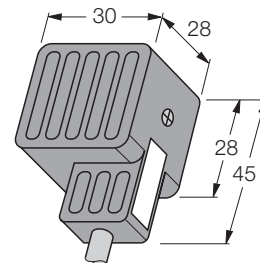


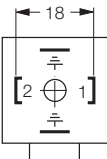
Valve-Connector

Type A, Ground Contacts Parallel Wired, Integral Sealing



Connector	valve connector, construction type A, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuSn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground, ground contacts parallel wired
Ampacity	10 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



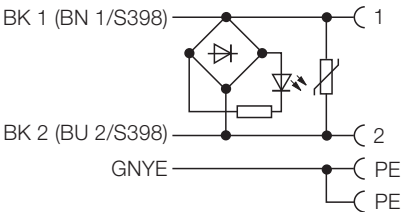
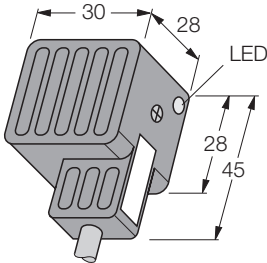
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
2-pole + ground, ground contacts parallel wired 	PVC, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	VAS22-0.220-2/P00 8018377	VAS22-0.220-5/P00 8018378	VAS22-0.220-10/P00 8025934
	PVC, irradiated, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	VAS22-0.220-2/XOR 8017141	VAS22-0.220-5/XOR 8006613	VAS22-0.220-10/XOR 8025935
	PUR/PVC, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	VAS22-0.220-2/S90 8017634	VAS22-0.220-5/S90 8006612	VAS22-0.220-10/S90 8012359
	PUR, halogen-free, highly flexible, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	VAS22-0.220-2/S74 8025936	VAS22-0.220-5/S74 8025937	VAS22-0.220-10/S74 8025938
	PUR, halogen-free, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	VAS22-0.220-2/S366 8025633	VAS22-0.220-5/S366 8025939	VAS22-0.220-10/S366 8025940
	PUR, irradiated, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	VAS22-0.220-2/S398 8025712	VAS22-0.220-5/S398 8025713	VAS22-0.220-10/S398 8025714

Subject to change without notice Edition: 11.2008

Valve-Connector
Type A, with Protection-Circuit,
Ground Contacts Parallel Wired,
Integral Sealing



Connector	valve connector, construction type A, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Fiber-optic sensor	plastic, PC transparent
Contacts	metal, CuSn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground, ground contacts parallel wired
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status

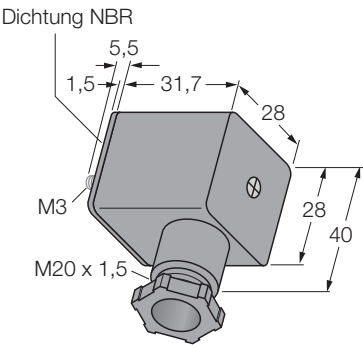


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground, ground contacts parallel wired 	PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VAS22-2.048-2/P00 8006602	VAS22-2.048-5/P00 8006605	VAS22-2.048-10/P00 8006609
	PVC, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VAS22-2.048-2/XOR 8006604	VAS22-2.048-5/XOR 8006607	VAS22-2.048-10/XOR 8006611
	PUR/PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VAS22-2.048-2/S90 8006603	VAS22-2.048-5/S90 8006606	VAS22-2.048-10/S90 8006610
	PUR, halogen-free, highly flexible, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VAS22-2.048-2/S74 8017660	VAS22-2.048-5/S74 8006608	VAS22-2.048-10/S74 8015503
	PUR, halogen-free, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VAS22-2.048-2/S366 8025941	VAS22-2.048-5/S366 8025942	VAS22-2.048-10/S366 8025943
	PUR, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VAS22-2.048-2/S398 8013535	VAS22-2.048-5/S398 8013330	VAS22-2.048-10/S398 8025221

Valve-Connector
Type A, Field-Wireable



Connector	field-wireable valve connector, construction type A, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA 6 GF, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	10 A
Rated voltage	max. 250 VAC/DC
Pollution degree	3
Ambient temperature Connector	-25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	6 ...8 mm
Core cross-section/Clamping ability	max. 1 mm²



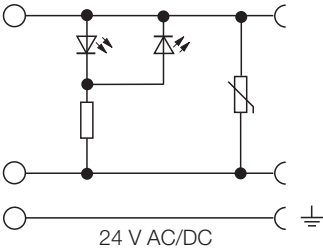
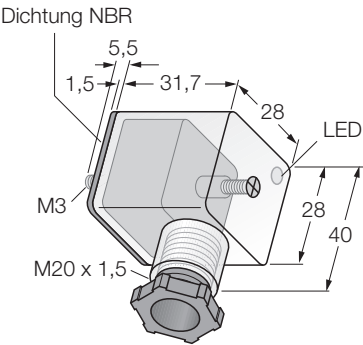
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
2-pole + ground		VC-AC21-0.220-K 8028723

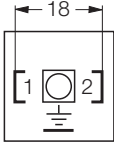
Subject to change without notice Edition: 11.2008

Valve-Connector
Type A, with Protection-Circuit,
Field-Wireable



Connector	field-wireable valve connector, construction type A, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA6-I, transparent
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 24 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature	Connector -25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	6 ...8 mm
Core cross-section/Clamping ability	max. 1 mm²

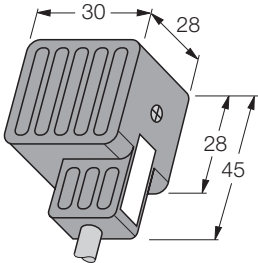


		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
2-pole + ground 		VC-AC21-11.024-K 8028728

Valve-Connector
Type A, PE 0 Degree,
Integral Sealing



Connector	valve connector, construction type A, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	3-pole + ground
Ampacity	10 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



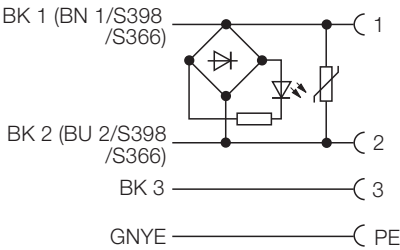
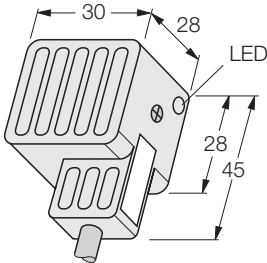
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole + ground	PVC, GY 3 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	VAS31-0.220-2/P00 8008801	VAS31-0.220-5/P00 8008803	VAS31-0.220-10/P00 8021564
	PVC, irradiated, OG 3 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	VAS31-0.220-2/XOR 8019571	VAS31-0.220-5/XOR 8011711	VAS31-0.220-10/XOR 8019574
	PUR/PVC, GY 3 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	VAS31-0.220-2/S90 8025802	VAS31-0.220-5/S90 8013056	VAS31-0.220-10/S90 8013933
	PUR, halogen-free, GY 3 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VAS31-0.220-2/S366 8025715	VAS31-0.220-5/S366 8025716	VAS31-0.220-10/S366 8025717
	PUR, irradiated, OG 3 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VAS31-0.220-2/S398 8025718	VAS31-0.220-5/S398 8025719	VAS31-0.220-10/S398 8025720

Subject to change without notice Edition: 11.2008

Valve-Connector
Type A, with Protection-Circuit,
PE 0 Degree, Integral Sealing



Connector	valve connector, construction type A, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	3-pole + ground
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



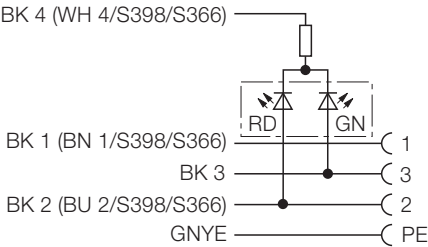
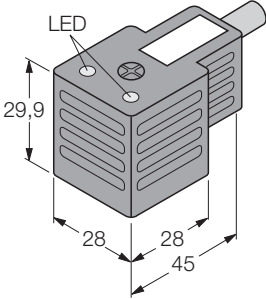
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole + ground 	PVC, GY 3 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	VAS31-2.048-2/P00 8017818	VAS31-2.048-5/P00 8025803	VAS31-2.048-10/P00 8025804
	PVC, irradiated, OG 3 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	VAS31-2.048-2/XOR 8008783	VAS31-2.048-5/XOR 8016887	VAS31-2.048-10/XOR 8019650
	PUR/PVC, GY 3 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	VAS31-2.048-2/S90 8019653	VAS31-2.048-5/S90 8013148	VAS31-2.048-10/S90 8017760
	PUR, halogen-free, GY 3 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VAS31-2.048-2/S366 8025721	VAS31-2.048-5/S366 8025722	VAS31-2.048-10/S366 8025723
	PUR, irradiated, OG 3 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VAS31-2.048-2/S398 8025724	VAS31-2.048-5/S398 8025725	VAS31-2.048-10/S398 8025726

Edition: 11.2008
Subject to change without notice

Valve-Connector
Type A, Pressure Switch,
PE 0 Degree, Integral Sealing



Connector	valve connector, construction type A,
	pressure switch, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Fiber-optic sensor	plastic, PC transparent
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	3-pole + ground
Rated voltage	max. 48 VDC
Pollution degree	3
Display switch state	LED red/green
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



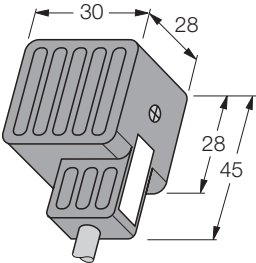
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole + ground 	PVC, GY 4 x 0.75 mm² / 1 x 0.75 mm² / Ø 7.3 mm	VASD41-4.048-2/P00 8009967	VASD41-4.048-5/P00 8009968	VASD41-4.048-10/P00 8011385
	PVC, irradiated, OG 4 x 0.75 mm² / 1 x 0.75 mm² / Ø 7.3 mm	VASD41-4.048-2/XOR 8011382	VASD41-4.048-5/XOR 8011384	VASD41-4.048-10/XOR 8011387
	PUR/PVC, GY 4 x 0.75 mm² / 1 x 0.75 mm² / Ø 7.3 mm	VASD41-4.048-2/S90 8011381	VASD41-4.048-5/S90 8011383	VASD41-4.048-10/S90 8011386
	PUR, halogen-free, GY 4 x 0.75 mm² / 1 x 0.75 mm² / Ø 7.3 mm	VASD41-4.048-2/S366 8026062	VASD41-4.048-5/S366 8026063	VASD41-4.048-10/S366 8026065
	PUR, irradiated, OG 4 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.7 mm	VASD41-4.048-2/S398 8025805	VASD41-4.048-5/S398 8013317	VASD41-4.048-10/S398 8013318

Subject to change without notice Edition: 11.2008

Valve-Connector
Type A, PE 180 Degree,
Integral Sealing



Connector	valve connector, construction type A, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	3-pole + ground
Ampacity	10 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



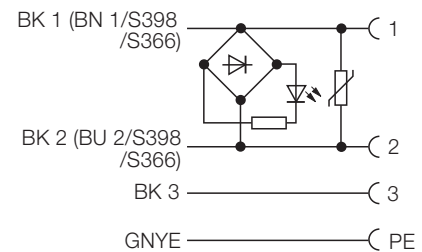
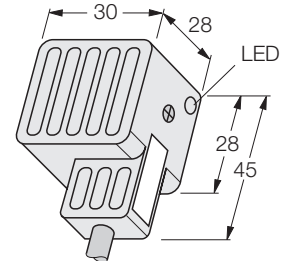
BK 1 (BN 1/S398 /S366)	1
BK 2 (BU 2/S398 /S366)	2
BK 3	3
GNYE	PE

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole + ground 	PVC, GY 3 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	TAS31-0.220-2/P00 8018427	TAS31-0.220-5/P00 8025806	TAS31-0.220-10/P00 8025807
	PVC, irradiated, OG 3 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	TAS31-0.220-2/XOR 8025727	TAS31-0.220-5/XOR 8025728	TAS31-0.220-10/XOR 8025729
	PUR/PVC, GY 3 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	TAS31-0.220-2/S90 8025808	TAS31-0.220-5/S90 8008894	TAS31-0.220-10/S90 8025809
	PUR, halogen-free, GY 3 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TAS31-0.220-2/S366 8026066	TAS31-0.220-5/S366 8026067	TAS31-0.220-10/S366 8026068
	PUR, irradiated, OG 3 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TAS31-0.220-2/S398 8026069	TAS31-0.220-5/S398 8026070	TAS31-0.220-10/S398 8026071

Subject to change without notice Edition: 11.2008

Valve-Connector Type A, with Protection-Circuit, PE 180 Degree, Integral Sealing

Connector	valve connector, construction type A, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	3-pole + ground
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



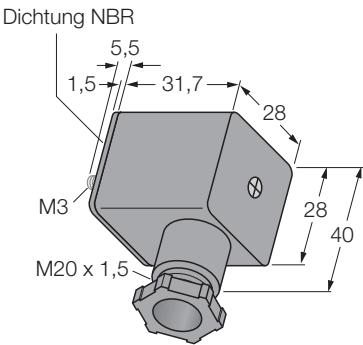
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole + ground 	PVC, GY 3 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 7.3 mm	TAS31-2.048-2/P00 8025730	TAS31-2.048-5/P00 8025731	TAS31-2.048-10/P00 8025732
	PVC, irradiated, OG 3 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 7.3 mm	TAS31-2.048-2/XOR 8025733	TAS31-2.048-5/XOR 8025734	TAS31-2.048-10/XOR 8025735
	PUR/PVC, GY 3 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 7.3 mm	TAS31-2.048-2/S90 8017185	TAS31-2.048-5/S90 8017474	TAS31-2.048-10/S90 8019536
	PUR, halogen-free, GY 3 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TAS31-2.048-2/S366 8026072	TAS31-2.048-5/S366 8026073	TAS31-2.048-10/S366 8026074
	PUR, irradiated, OG 3 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TAS31-2.048-2/S398 8026075	TAS31-2.048-5/S398 8026076	TAS31-2.048-10/S398 8026077

Valve-Connector

Type A, Field-Wireable



Connector	field-wireable valve connector, construction type A, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA 6 GF, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	3-pole + ground
Ampacity	10 A
Rated voltage	max. 250 VAC/DC
Pollution degree	3
Ambient temperature Connector	-25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	6 ...8 mm
Core cross-section/Clamping ability	max. 1 mm²



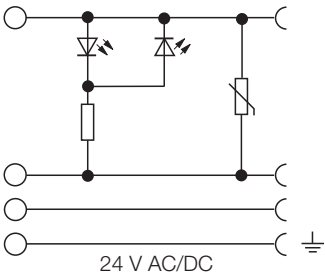
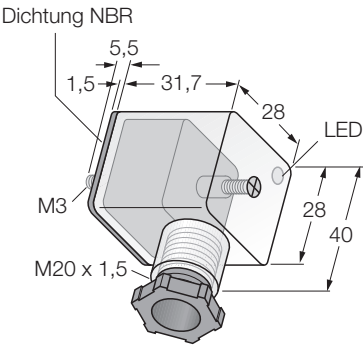
		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole + ground	Wire-construction	VC-AC31-0.220-K 8031583

Valve-Connector

Type A, Field-Wireable



Connector	field-wireable valve connector, construction type A, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA6-I, silver
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	3-pole + ground
Rated voltage	max. 24 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature Connector	-25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	6 ...8 mm
Core cross-section/Clamping ability	max. 1 mm²

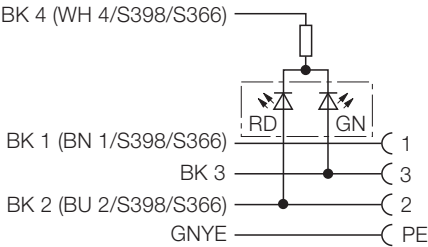
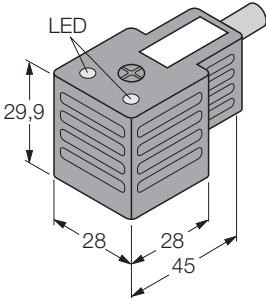


		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole + ground		VC-AC31-11.024-K 8031584

Valve-Connector
Type A, with Protection-Circuit,
Pressure Switch, PE 180 Degree,
Integral Sealing



Connector	valve connector, construction type A,
Device standard	pressure switch, straight
Grip	acc. to DIN 175301-803
Contact carriers	plastic, TPU, black
Fiber-optic sensor	plastic, PA 6 GF, black
Contacts	plastic, PC transparent
Seal	metal, CuZn, silver-plated
Coupling nut/screw	plastic, TPU, moulded
	metal, CuZn, nickel-plated
Polarity	3-pole + ground
Rated voltage	max. 48 VDC
Pollution degree	3
Display switch state	LED red/green
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status

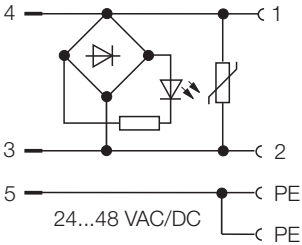
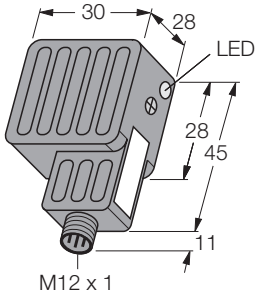


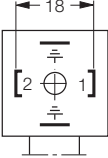
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole + ground 	PVC, GY 4 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	TASD41-4.048-2/P00 8010721	TASD41-4.048-5/P00 8010724	TASD41-4.048-10/P00 8010727
	PVC, irradiated, OG 4 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	TASD41-4.048-2/XOR 8010723	TASD41-4.048-5/XOR 8010726	TASD41-4.048-10/XOR 8010729
	PUR/PVC, GY 4 x0.75 mm² / 1 x0.75 mm² / Ø 7.3 mm	TASD41-4.048-2/S90 8010722	TASD41-4.048-5/S90 8010725	TASD41-4.048-10/S90 8010728

Valve-Connector
Type A , with Protection-Circuit,
M12 x 1 Male Connector



Connector	valve connector, construction type A, M12 x 1 male connector, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Fiber-optic sensor	plastic, PC transparent
Contacts	metal, CuSn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground, ground contacts parallel wired
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



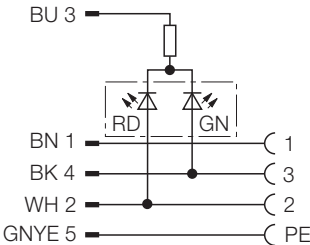
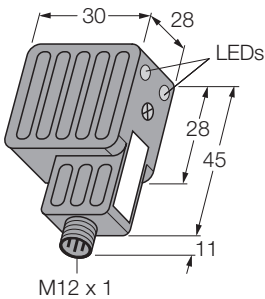
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
2-pole + ground, ground contacts parallel wired 		VAS22-2.048-FS5.31K 8011188

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Valve-Connector
Type A , Pressure Switch,
M12 x 1 Male Connector, PE 0 Degree



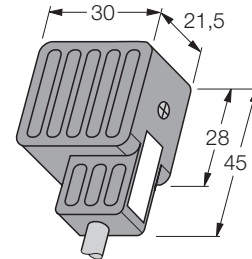
Connector	valve connector, construction type A, pressure switch, M12 x 1 connector, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Fiber-optic sensor	plastic, PC transparent
Contacts	metal, CuSn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	3-pole + ground
Rated voltage	max. 48 VDC
Pollution degree	3
Display switch state	LED red/green
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole + ground	Wire-construction	VASD41-4.048-FS5K 8012097

Valve-Connector Type B, PE 0 Degree, Integral Sealing

Connector	valve connector, construction type B, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	10 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



BK 1 (BN 1/S398)	—	⌋ 1
BK 2 (BU 2/S398)	—	⌋ 2
GNYE	—	⌋ PE

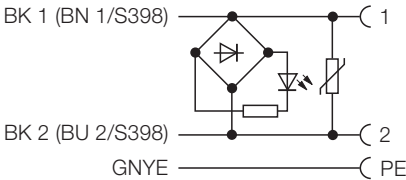
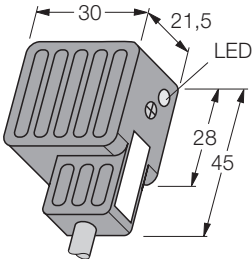
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VBS21-0.220-2/P00 8007873	VBS21-0.220-5/P00 8007877	VBS21-0.220-10/P00 8007881
	PVC, irradiated, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VBS21-0.220-2/XOR 8007875	VBS21-0.220-5/XOR 8007879	VBS21-0.220-10/XOR 8007883
	PUR/PVC, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VBS21-0.220-2/S90 8007874	VBS21-0.220-5/S90 8007878	VBS21-0.220-10/S90 8007882
	PUR, halogen-free, highly flexible, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VBS21-0.220-2/S74 8007876	VBS21-0.220-5/S74 8007880	VBS21-0.220-10/S74 8007884
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VBS21-0.220-2/S366 8025746	VBS21-0.220-5/S366 8025747	VBS21-0.220-10/S366 8025748
	PUR, irradiated, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VBS21-0.220-2/S398 8025944	VBS21-0.220-5/S398 8025945	VBS21-0.220-10/S398 8025946

Subject to change without notice Edition: 11.2008

Valve-Connector
Type B, with Protection-Circuit,
PE 0 Degree, Integral Sealing



Connector	valve connector, construction type B, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



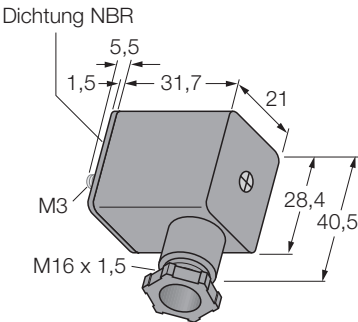
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VBS21-2.048-2/P00 8007861	VBS21-2.048-5/P00 8007865	VBS21-2.048-10/P00 8007869
	PVC, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VBS21-2.048-2/XOR 8007863	VBS21-2.048-5/XOR 8007867	VBS21-2.048-10/XOR 8007871
	PUR/PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VBS21-2.048-2/S90 8007862	VBS21-2.048-5/S90 8007866	VBS21-2.048-10/S90 8007870
	PUR, halogen-free, highly flexible, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VBS21-2.048-2/S74 8007864	VBS21-2.048-5/S74 8007868	VBS21-2.048-10/S74 8007872
	PUR, halogen-free, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VBS21-2.048-2/S366 8025749	VBS21-2.048-5/S366 8025750	VBS21-2.048-10/S366 8025751
	PUR, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VBS21-2.048-2/S398 8025947	VBS21-2.048-5/S398 8025948	VBS21-2.048-10/S398 8025949

Subject to change without notice Edition: 11.2008

Valve-Connector
Type B, Field-Wireable



Connector	field-wireable valve connector, construction type B, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA 6 GF, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	10 A
Rated voltage	max. 250 VAC/DC
Pollution degree	3
Ambient temperature Connector	-25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	6 ...8 mm
Core cross-section/Clamping ability	max. 1 mm²



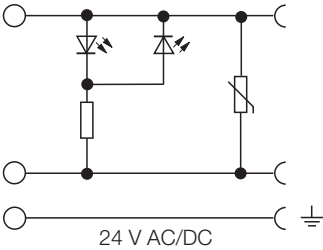
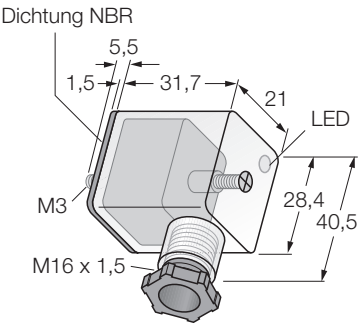
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
2-pole + ground 		VC-BC21-0.220-K 8028724

Subject to change without notice Edition: 11.2008

Valve-Connector
Type B, with Protection-Circuit,
Field-Wireable



Connector	field-wireable valve connector, construction type B, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA6-I, transparent
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 24 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature Connector	-25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	6 ...8 mm
Core cross-section/Clamping ability	max. 1 mm²

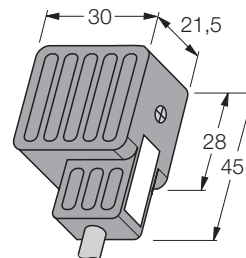


		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
2-pole + ground		VC-BC21-11.024-K 8028729

Valve-Connector Type B, PE 180 Degree, Integral Sealing



Connector	valve connector, construction type B, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	10 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



BK 1 (BN 1/S398)	—	⌋ 1
BK 2 (BU 2/S398)	—	⌋ 2
GNYE	—	⌋ PE

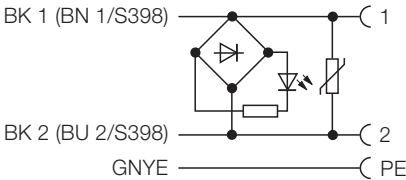
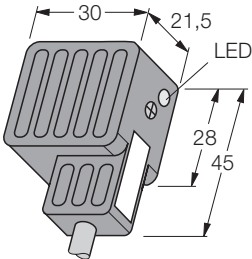
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TBS21-0.220-2/P00 8007921	TBS21-0.220-5/P00 8007925	TBS21-0.220-10/P00 8007929
	PVC, irradiated, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TBS21-0.220-2/XOR 8007923	TBS21-0.220-5/XOR 8007927	TBS21-0.220-10/XOR 8007931
	PUR/PVC, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TBS21-0.220-2/S90 8007922	TBS21-0.220-5/S90 8007926	TBS21-0.220-10/S90 8007930
	PUR, halogen-free, highly flexible, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TBS21-0.220-2/S74 8007924	TBS21-0.220-5/S74 8007928	TBS21-0.220-10/S74 8007932
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TBS21-0.220-2/S366 8025752	TBS21-0.220-5/S366 8025753	TBS21-0.220-10/S366 8025754
	PUR, irradiated, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TBS21-0.220-2/S398 8026078	TBS21-0.220-5/S398 8026079	TBS21-0.220-10/S398 8026080

Subject to change without notice Edition: 11.2008

Valve-Connector
Type B, with Protection-Circuit,
PE 180 Degree, Integral Sealing



Connector	valve connector, construction type B, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status

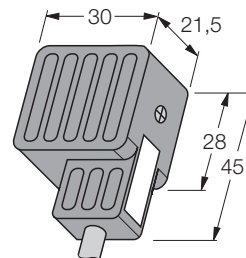


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TBS21-2.048-2/P00 8007909	TBS21-2.048-5/P00 8007913	TBS21-2.048-10/P00 8007917
	PVC, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TBS21-2.048-2/XOR 8007911	TBS21-2.048-5/XOR 8007915	TBS21-2.048-10/XOR 8007919
	PUR/PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TBS21-2.048-2/S90 8007910	TBS21-2.048-5/S90 8007914	TBS21-2.048-10/S90 8007918
	PUR, halogen-free, highly flexible, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TBS21-2.048-2/S74 8007912	TBS21-2.048-5/S74 8007916	TBS21-2.048-10/S74 8007920
	PUR, halogen-free, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TBS21-2.048-2/S366 8025755	TBS21-2.048-5/S366 8025756	TBS21-2.048-10/S366 8025757
	PUR, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TBS21-2.048-2/S398 8026081	TBS21-2.048-5/S398 8026082	TBS21-2.048-10/S398 8026083

Valve-Connector Industry-Type, PE 0 Degree, Integral Sealing



Connector	valve connector, construction type I, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	10 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



BK 1 (BN 1/S398)	—	⌋ 1
BK 2 (BU 2/S398)	—	⌋ 2
GNYE	—	⌋ PE

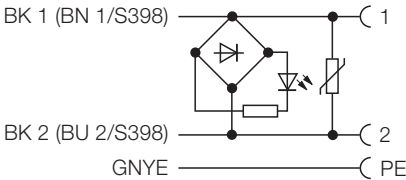
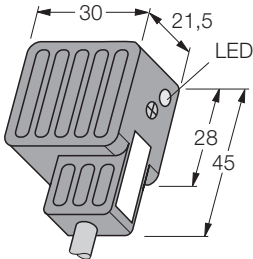
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VIS21-0.220-2/P00 8007897	VIS21-0.220-5/P00 8007901	VIS21-0.220-10/P00 8007905
	PVC, irradiated, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VIS21-0.220-2/XOR 8007899	VIS21-0.220-5/XOR 8007903	VIS21-0.220-10/XOR 8007907
	PUR/PVC, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VIS21-0.220-2/S90 8007898	VIS21-0.220-5/S90 8007902	VIS21-0.220-10/S90 8007906
	PUR, halogen-free, highly flexible, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VIS21-0.220-2/S74 8007900	VIS21-0.220-5/S74 8007904	VIS21-0.220-10/S74 8007908
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VIS21-0.220-2/S366 8025758	VIS21-0.220-5/S366 8025759	VIS21-0.220-10/S366 8025760
	PUR, irradiated, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VIS21-0.220-2/S398 8025950	VIS21-0.220-5/S398 8025951	VIS21-0.220-10/S398 8025952

Subject to change without notice Edition: 11.2008

Valve-Connector
Industry-Type, with Protection-Circuit,
PE 0 Degree, Integral Sealing

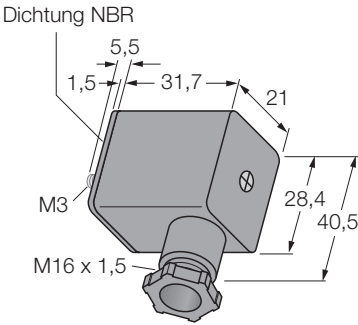


Connector	valve connector, construction type I, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed staufs



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VIS21-2.048-2/P00 8007885	VIS21-2.048-5/P00 8007889	VIS21-2.048-10/P00 8007893
	PVC, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VIS21-2.048-2/XOR 8007887	VIS21-2.048-5/XOR 8007891	VIS21-2.048-10/XOR 8007895
	PUR/PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VIS21-2.048-2/S90 8007886	VIS21-2.048-5/S90 8007890	VIS21-2.048-10/S90 8007894
	PUR, halogen-free, highly flexible, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VIS21-2.048-2/S74 8007888	VIS21-2.048-5/S74 8007892	VIS21-2.048-10/S74 8007896
	PUR, halogen-free, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VIS21-2.048-2/S366 8025761	VIS21-2.048-5/S366 8025762	VIS21-2.048-10/S366 8025763
	PUR, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VIS21-2.048-2/S398 8025953	VIS21-2.048-5/S398 8025954	VIS21-2.048-10/S398 8025955

Connector	field-wireable valve connector, construction type I, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA 6 GF, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	10 A
Rated voltage	max. 250 VAC/DC
Pollution degree	3
Ambient temperature Connector	-25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	6 ...8 mm
Core cross-section/Clamping ability	max. 1 mm²



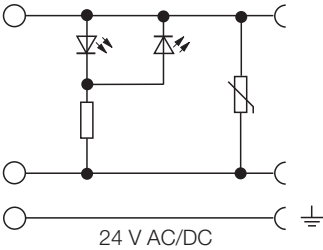
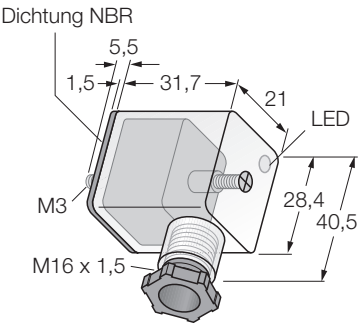
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
2-pole + ground 		VC-IC21-0.220-K 8028725

Subject to change without notice Edition: 11.2008

Valve-Connector
Industry-Type, with Protection-Circuit,
Field-Wireable



Connector	field-wireable valve connector, construction type I, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA6-I, transparent
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 24 VAC/DC
Pollution degree	3
Display switch state	LEDyellow
Protective component	Varistor
Ambient temperature Connector	-25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	6 ...8 mm
Core cross-section/Clamping ability	max. 1 mm²

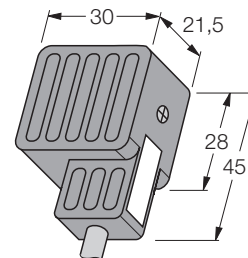


		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
2-pole + ground		VC-IC21-11.024-K 8028730

Valve-Connector Industry-Type, PE 180 Degree, Integral Sealing



Connector	valve connector, construction type I, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	10 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



BK 1 (BN 1/S398)	—	⌋ 1
BK 2 (BU 2/S398)	—	⌋ 2
GNYE	—	⌋ PE

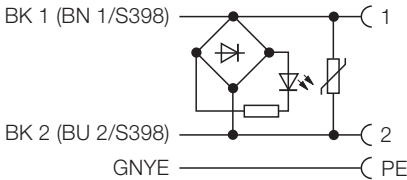
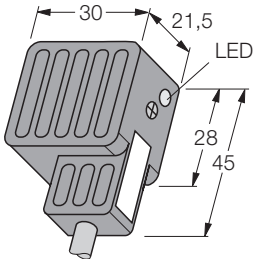
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TIS21-0.220-2/P00 8007945	TIS21-0.220-5/P00 8007949	TIS21-0.220-10/P00 8007953
	PVC, irradiated, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TIS21-0.220-2/XOR 8007947	TIS21-0.220-5/XOR 8007951	TIS21-0.220-10/XOR 8007955
	PUR/PVC, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TIS21-0.220-2/S90 8007946	TIS21-0.220-5/S90 8007950	TIS21-0.220-10/S90 8007954
	PUR, halogen-free, highly flexible, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TIS21-0.220-2/S74 8007948	TIS21-0.220-5/S74 8007952	TIS21-0.220-10/S74 8007956
	PUR, halogen-free, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TIS21-0.220-2/S366 8025764	TIS21-0.220-5/S366 8025765	TIS21-0.220-10/S366 8025766
	PUR, irradiated, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TIS21-0.220-2/S398 8026084	TIS21-0.220-5/S398 8026085	TIS21-0.220-10/S398 8026086

Subject to change without notice Edition: 11.2008

Valve-Connector
Industry-Type, with Protection-Circuit,
PE 180 Degree, Integral Sealing



Connector	valve connector, construction type I, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TIS21-2.048-2/P00 8007933	TIS21-2.048-5/P00 8007937	TIS21-2.048-10/P00 8007941
	PVC, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TIS21-2.048-2/XOR 8007935	TIS21-2.048-5/XOR 8007939	TIS21-2.048-10/XOR 8007943
	PUR/PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TIS21-2.048-2/S90 8007934	TIS21-2.048-5/S90 8007938	TIS21-2.048-10/S90 8007942
	PUR, halogen-free, highly flexible, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TIS21-2.048-2/S74 8007936	TIS21-2.048-5/S74 8007940	TIS21-2.048-10/S74 8007944
	PUR, halogen-free, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TIS21-2.048-2/S366 8025767	TIS21-2.048-5/S366 8025768	TIS21-2.048-10/S366 8025769
	PUR, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TIS21-2.048-2/S398 8026087	TIS21-2.048-5/S398 8026088	TIS21-2.048-10/S398 8026089

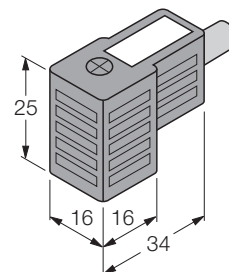
Subject to change without notice Edition: 11.2008

Valve-Connector

Type C, Contact-Distance 8mm, PE 0 Degree, Integral Sealing



Connector	valve connector, construction type C, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	6 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



BK 1 (BN 1/S398)	_____	⌋ 1
BK 2 (BU 2/S398)	_____	⌋ 2
GNYE	_____	⌋ PE

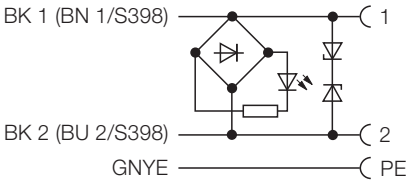
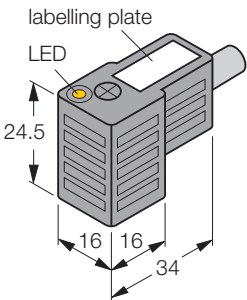
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS8.21-0.220-2/P00 8007969	VCS8.21-0.220-5/P00 8007973	VCS8.21-0.220-10/P00 8007977
	PVC, irradiated, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS8.21-0.220-2/XOR 8007971	VCS8.21-0.220-5/XOR 8007975	VCS8.21-0.220-10/XOR 8007979
	PUR/PVC, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS8.21-0.220-2/S90 8007970	VCS8.21-0.220-5/S90 8007974	VCS8.21-0.220-10/S90 8007978
	PUR, halogen-free, highly flexible, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS8.21-0.220-2/S74 8007972	VCS8.21-0.220-5/S74 8007976	VCS8.21-0.220-10/S74 8007980
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS8.21-0.220-2/S366 8025770	VCS8.21-0.220-5/S366 8025771	VCS8.21-0.220-10/S366 8025772
	PUR, irradiated, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS8.21-0.220-2/S398 8025848	VCS8.21-0.220-5/S398 8025849	VCS8.21-0.220-10/S398 8025850

Subject to change without notice Edition: 11.2008

Valve-Connector
Type C, Contact-Distance 8mm,
with Protection-Circuit
PE 0 Degree, Integral Sealing



Connector	valve connector, construction type C, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Z diode
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status

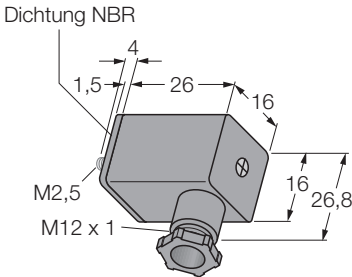


		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS8.21-2.048-2/P00 8007957	VCS8.21-2.048-5/P00 8007961	VCS8.21-2.048-10/P00 8007965
	PVC, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS8.21-2.048-2/XOR 8007959	VCS8.21-2.048-5/XOR 8007963	VCS8.21-2.048-10/XOR 8007967
	PUR/PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS8.21-2.048-2/S90 8007958	VCS8.21-2.048-5/S90 8007962	VCS8.21-2.048-10/S90 8007966
	PUR, halogen-free, highly flexible, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS8.21-2.048-2/S74 8007960	VCS8.21-2.048-5/S74 8007964	VCS8.21-2.048-10/S74 8007968
	PUR, halogen-free, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS8.21-2.048-2/S366 8025773	VCS8.21-2.048-5/S366 8025774	VCS8.21-2.048-10/S366 8025775
	PUR, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS8.21-2.048-2/S398 8025851	VCS8.21-2.048-5/S398 8025852	VCS8.21-2.048-10/S398 8025853

Valve-Connector
Type C, Field-Wireable



Connector	field-wireable valve connector, construction type C, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA 6 GF, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	6 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	4 ...6 mm
Core cross-section/Clamping ability	max. 0.34 mm²



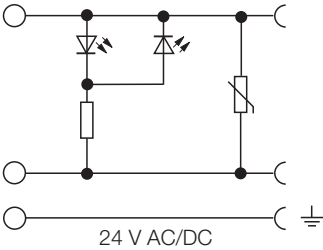
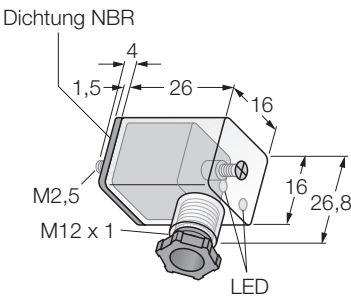
		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
2-pole + ground		VC-CC8.21-0.220-K 8028726

Subject to change without notice Edition: 11.2008

Valve-Connector
Type C, with Protection-Circuit,
Field-Wireable



Connector	field-wireable valve connector, construction type C, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA6-I, transparent
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 24 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature	Connector -25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	4 ...6 mm
Core cross-section/Clamping ability	max. 0.34 mm²

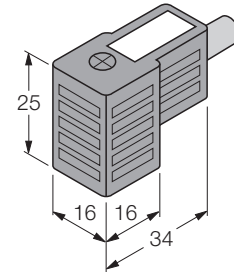


		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
2-pole + ground	Wire-construction	VC-CC8.21-11.024-K 8028731

Valve-Connector

Type C, Contact-Distance 8mm, PE 180 Degree, Integral Sealing

Connector	valve connector, construction type C, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	6 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



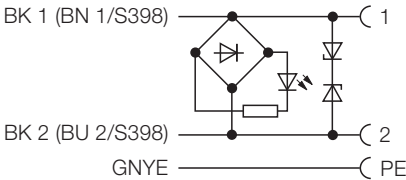
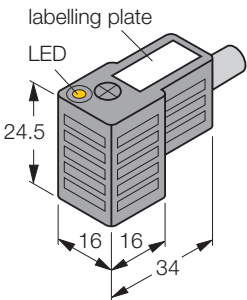
BK 1 (BN 1/S398)	_____	⌋ 1
BK 2 (BU 2/S398)	_____	⌋ 2
GNYE	_____	⌋ PE

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS8.21-0.220-2/P00 8008017	TCS8.21-0.220-5/P00 8008021	TCS8.21-0.220-10/P00 8008025
	PVC, irradiated, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS8.21-0.220-2/XOR 8008019	TCS8.21-0.220-5/XOR 8008023	TCS8.21-0.220-10/XOR 8008027
	PUR/PVC, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS8.21-0.220-2/S90 8008018	TCS8.21-0.220-5/S90 8008022	TCS8.21-0.220-10/S90 8008026
	PUR, halogen-free, highly flexible, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS8.21-0.220-2/S74 8008020	TCS8.21-0.220-5/S74 8008024	TCS8.21-0.220-10/S74 8008028
	PUR, halogen-free, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS8.21-0.220-2/S366 8025776	TCS8.21-0.220-5/S366 8025777	TCS8.21-0.220-10/S366 8025778
	PUR, irradiated, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS8.21-0.220-2/S398 8025854	TCS8.21-0.220-5/S398 8025855	TCS8.21-0.220-10/S398 8025856

Valve-Connector
Type C, Contact-Distance 8mm,
with Protection-Circuit,
PE 180 Degree, Integral Sealing



Connector	valve connector, construction type C, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Z diode
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS8.21-2.048-2/P00 8008005	TCS8.21-2.048-5/P00 8008009	TCS8.21-2.048-10/P00 8008013
	PVC, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS8.21-2.048-2/XOR 8008007	TCS8.21-2.048-5/XOR 8008011	TCS8.21-2.048-10/XOR 8008015
	PUR/PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS8.21-2.048-2/S90 8008006	TCS8.21-2.048-5/S90 8008010	TCS8.21-2.048-10/S90 8008014
	PUR, halogen-free, highly flexible, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS8.21-2.048-2/S74 8008008	TCS8.21-2.048-5/S74 8008012	TCS8.21-2.048-10/S74 8008016
	PUR, halogen-free, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS8.21-2.048-2/S366 8025788	TCS8.21-2.048-5/S366 8025789	TCS8.21-2.048-10/S366 8025790
	PUR, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS8.21-2.048-2/S398 8025866	TCS8.21-2.048-5/S398 8025867	TCS8.21-2.048-10/S398 8025868

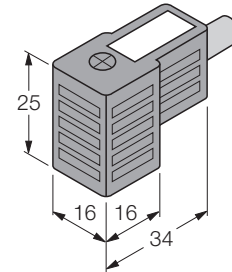
Valve-Connector

Contact-Distance 9,4mm,

PE 0 Degree, Integral Sealing



Connector	valve connector, housing type, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	6 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



BK 1 (BN 1/S398)	_____	⌋ 1
BK 2 (BU 2/S398)	_____	⌋ 2
GNYE	_____	⌋ PE

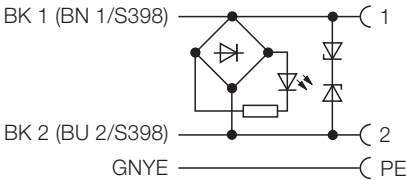
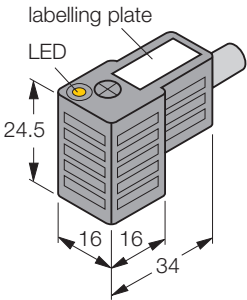
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS9.21-0.220-2/P00 8007993	VCS9.21-0.220-5/P00 8007997	VCS9.21-0.220-10/P00 8008001
	PVC, irradiated, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS9.21-0.220-2/XOR 8007995	VCS9.21-0.220-5/XOR 8007999	VCS9.21-0.220-10/XOR 8008003
	PUR/PVC, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS9.21-0.220-2/S90 8007994	VCS9.21-0.220-5/S90 8007998	VCS9.21-0.220-10/S90 8008002
	PUR, halogen-free, highly flexible, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS9.21-0.220-2/S74 8007996	VCS9.21-0.220-5/S74 8008000	VCS9.21-0.220-10/S74 8008004
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS9.21-0.220-2/S366 8025779	VCS9.21-0.220-5/S366 8025780	VCS9.21-0.220-10/S366 8025781
	PUR, irradiated, OG 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VCS9.21-0.220-2/S398 8025857	VCS9.21-0.220-5/S398 8025858	VCS9.21-0.220-10/S398 8025859

Subject to change without notice Edition: 11.2008

Valve-Connector
Contact-Distance 9,4mm,
with Protection-Circuit,
PE 0 Degree, Integral Sealing



Connector	Valve connector, housing type, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Z diode
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status

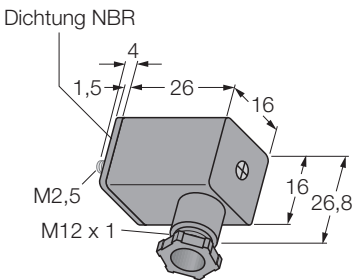


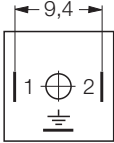
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS9.21-2.048-2/P00 8007981	VCS9.21-2.048-5/P00 8007985	VCS9.21-2.048-10/P00 8007989
	PVC, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS9.21-2.048-2/XOR 8007983	VCS9.21-2.048-5/XOR 8007987	VCS9.21-2.048-10/XOR 8007991
	PUR/PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS9.21-2.048-2/S90 8007982	VCS9.21-2.048-5/S90 8007986	VCS9.21-2.048-10/S90 8007990
	PUR, halogen-free, highly flexible, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS9.21-2.048-2/S74 8007984	VCS9.21-2.048-5/S74 8007988	VCS9.21-2.048-10/S74 8007992
	PUR, halogen-free, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS9.21-2.048-2/S366 8025792	VCS9.21-2.048-5/S366 8025791	VCS9.21-2.048-10/S366 8025793
	PUR, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	VCS9.21-2.048-2/S398 8025869	VCS9.21-2.048-5/S398 8025870	VCS9.21-2.048-10/S398 8025871

Valve-Connector
Contact-Distance 9,4mm, Field-Wireable



Connector	field-wireable valve connector, housing type, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA 6 GF, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	6 A
Rated voltage	max. 110 VAC/DC
Pollution degree	3
Ambient temperature Connector	-25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	4 ...6 mm
Core cross-section/Clamping ability	max. 0.34 mm²



		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
2-pole + ground 		VC-CC9.21-0.220-K 8028727

Subject to change without notice Edition: 11.2008

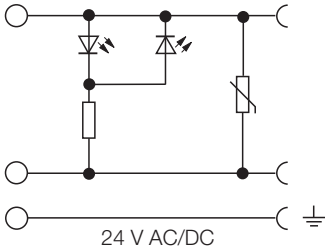
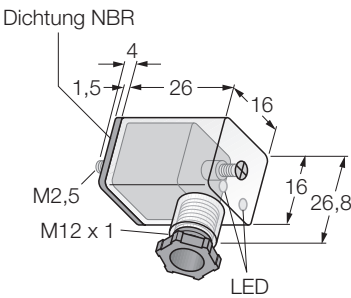
Valve-Connector

Contact-Distance 9,4mm, with Protection-Circuit,

Field-Wireable



Connector	field-wireable valve connector, housing type, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, PA6-I, transparent
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, nickel-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 24 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature	Connector -25 ... +80 °C
Degree of protection	IP65, only in screwed status
External diameter of the cable	4 ...6 mm
Core cross-section/Clamping ability	max. 0.34 mm²



		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
2-pole + ground	Wire-construction	VC-CC9.21-11.024-K 8028732

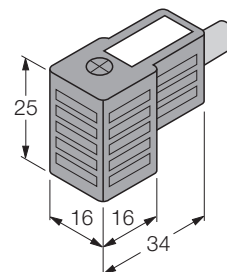
Valve-Connector

Contact-Distance 9,4mm,

PE 180 Degree, Integral Gasket



Connector	valve connector, housing type, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Ampacity	6 A
Rated voltage	max. 230 VAC/DC
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



BK 1 (BN 1/S398)	1
BK 2 (BU 2/S398)	2
GNYE	PE

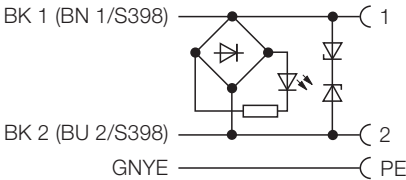
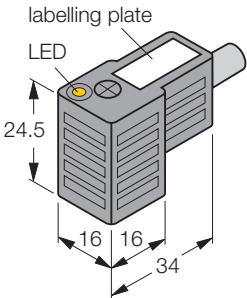
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS9.21-0.220-2/P00 8008041	TCS9.21-0.220-5/P00 8008045	TCS9.21-0.220-10/P00 8008049
	PVC, irradiated, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS9.21-0.220-2/XOR 8008043	TCS9.21-0.220-5/XOR 8008047	TCS9.21-0.220-10/XOR 8008051
	PUR/PVC, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS9.21-0.220-2/S90 8008042	TCS9.21-0.220-5/S90 8008046	TCS9.21-0.220-10/S90 8008050
	PUR, halogen-free, highly flexible, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS9.21-0.220-2/S74 8008044	TCS9.21-0.220-5/S74 8008048	TCS9.21-0.220-10/S74 8008052
	PUR, halogen-free, GY 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS9.21-0.220-2/S366 8025782	TCS9.21-0.220-5/S366 8025783	TCS9.21-0.220-10/S366 8025784
	PUR, irradiated, OG 2 x 0.75 mm² / 1 x 0.75 mm² / Ø 6.2 mm	TCS9.21-0.220-2/S398 8025860	TCS9.21-0.220-5/S398 8025861	TCS9.21-0.220-10/S398 8025862

Subject to change without notice Edition: 11.2008

Valve-Connector
Contact-Distance 9,4mm,
with Protection-Circuit,
PE 180 Degree, Integral Sealing



Connector	Valve connector, housing type, straight
Device standard	acc. to DIN 175301-803
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Polarity	2-pole + ground
Rated voltage	max. 48 VAC/DC
Pollution degree	3
Display switch state	LED yellow
Protective component	Z diode
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS9.21-2.048-2/P00 8008029	TCS9.21-2.048-5/P00 8008033	TCS9.21-2.048-10/P00 8008037
	PVC, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS9.21-2.048-2/XOR 8008031	TCS9.21-2.048-5/XOR 8008035	TCS9.21-2.048-10/XOR 8008039
	PUR/PVC, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS9.21-2.048-2/S90 8008030	TCS9.21-2.048-5/S90 8008034	TCS9.21-2.048-10/S90 8008038
	PUR, halogen-free, highly flexible, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS9.21-2.048-2/S74 8008032	TCS9.21-2.048-5/S74 8008036	TCS9.21-2.048-10/S74 8008040
	PUR, halogen-free, GY 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS9.21-2.048-2/S366 8025785	TCS9.21-2.048-5/S366 8025786	TCS9.21-2.048-10/S366 8025787
	PUR, irradiated, OG 2 x0.75 mm² / 1 x0.75 mm² / Ø 6.2 mm	TCS9.21-2.048-2/S398 8025863	TCS9.21-2.048-5/S398 8025864	TCS9.21-2.048-10/S398 8025865



Connecting cables

Our connection cables with their almost unlimited combination possibilities are suited for all kinds of applications and reduce installation times and expenses.

The Standard-Connecting-cables are Dust- and water-proof | IEC 60529

IP67

Other cable- and wire-lengths are available upon request

m

Customer specific
B-side wiring

?

M12x1 Coupling – Plug

11.1 – 11.36

M8x1 | Ø8mm Coupling –
M12x1 Plug

11.37 – 11.54

M8x1 | Ø8mm Coupling – Plug

11.55 – 11.78

M12x1 Plug – Valve Connector

11.79 – 11.84

Connecting Cables

Straight Female Connector M12 x 1 -

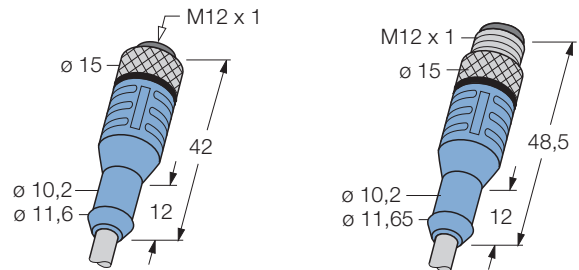
Straight Male Connector M12 x 1

Connector female connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WAK3-0,3-WAS3/P00 8006716	...-0,6-... 8006721	...-1-... 8006701
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WAK3-0,3-WAS3/XOR 8006718	...-0,6-... 8006723	...-1-... 8006703
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WAK3-0,3-WAS3/S90 8006717	...-0,6-... 8006722	...-1-... 8006702
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WAK3-0,3-WAS3/S74 8006720	...-0,6-... 8006725	...-1-... 8006705
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WAK3-0,3-WAS3/S366 8022835	...-0,6-... 8022836	...-1-... 8022837
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WAK3-0,3-WAS3/S398 8017810	...-0,6-... 8018071	...-1-... 8020505
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		WAK3-1,5-WAS3/P00 8006726	...-2-... 8006706	...-5-... 8006711
		WAK3-1,5-WAS3/XOR 8006728	...-2-... 8006708	...-5-... 8006713
		WAK3-1,5-WAS3/S90 8006727	...-2-... 8006707	...-5-... 8006712
		WAK3-1,5-WAS3/S74 8006730	...-2-... 8006710	...-5-... 8006715
		WAK3-1,5-WAS3/S366 8022838	...-2-... 8022839	...-5-... 8022840
		WAK3-1,5-WAS3/S398 8021882	...-2-... 8020506	...-5-... 8018090

Connecting Cables
Straight Female Connector M12 x 1 -
Straight Male Connector M12 x 1

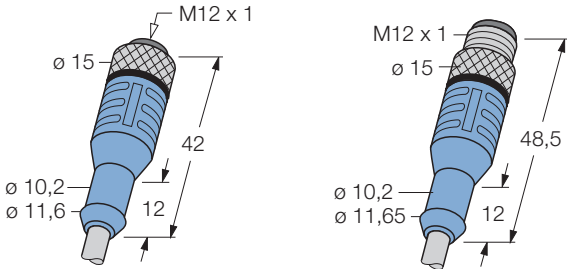


Connector female connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3	0,6 m	1 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WAK4-0,3-WAS4/P00 8006752	...-0,6-... 8006759	...-1-... 8006731
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WAK4-0,3-WAS4/XOR 8006754	...-0,6-... 8006761	...-1-... 8006733
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WAK4-0,3-WAS4/S90 8006753	...-0,6-... 8006760	...-1-... 8006732
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WAK4-0,3-WAS4/S74 8006758	...-0,6-... 8006765	...-1-... 8006737
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WAK4-0,3-WAS4/S366 8022846	...-0,6-... 8022847	...-1-... 8022848
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WAK4-0,3-WAS4/S398 8018758	...-0,6-... 8017319	...-1-... 8017320
		Standard cable-length		
4-pole 		1,5 m	2 m	5 m
	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WAK4-1,5-WAS4/P00 8006766	...-2-... 8006738	...-5-... 8006745
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WAK4-1,5-WAS4/XOR 8006768	...-2-... 8006740	...-5-... 8006747
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WAK4-1,5-WAS4/S90 8006767	...-2-... 8006739	...-5-... 8006746
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WAK4-1,5-WAS4/S74 8006772	...-2-... 8006744	...-5-... 8006751
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WAK4-1,5-WAS4/S366 8022849	...-2-... 8022850	...-5-... 8022851
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WAK4-1,5-WAS4/S398 8017321	...-2-... 8017322	...-5-... 8017522

Connecting Cables

Straight Female Connector M12 x 1 -

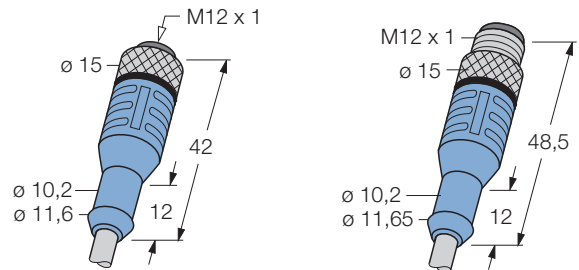
Straight Male Connector M12 x 1

Connector female connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole + ground 	PVC, GY 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.5 mm	WAK5-0,3-WAS5/P00 8006788	...-0,6-... 8006793	...-1-... 8006773
	PVC, irradiated, OG 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.7 mm	WAK5-0,3-WAS5/XOR 8006790	...-0,6-... 8006795	...-1-... 8006775
	PUR/PVC, GY 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.7 mm	WAK5-0,3-WAS5/S90 8006789	...-0,6-... 8006794	...-1-... 8006774
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.3 mm	WAK5-0,3-WAS5/S74 8006792	...-0,6-... 8006797	...-1-... 8006777
	PUR, halogen-free, GY 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.7 mm	WAK5-0,3-WAS5/S366 8022853	...-0,6-... 8022854	...-1-... 8022855
	PUR, irradiated, OG 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.2 mm	WAK5-0,3-WAS5/S398 8017903	...-0,6-... 8016477	...-1-... 8016479
		Standard cable-length		
4-pole + ground 	PVC, GY 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.5 mm	1,5 m	2 m	5 m
	PVC, irradiated, OG 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.7 mm	WAK5-1,5-WAS5/P00 8006798	...-2-... 8006778	...-5-... 8006783
	PUR/PVC, GY 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.7 mm	WAK5-1,5-WAS5/XOR 8006800	...-2-... 8006780	...-5-... 8006785
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.3 mm	WAK5-1,5-WAS5/S90 8006799	...-2-... 8006779	...-5-... 8006784
	PUR, halogen-free, GY 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.7 mm	WAK5-1,5-WAS5/S74 8006802	...-2-... 8006782	...-5-... 8006787
	PUR, irradiated, OG 4 x 0.34 mm² / 1 x 0.5 mm² / Ø 5.2 mm	WAK5-1,5-WAS5/S366 8022856	...-2-... 8022857	...-5-... 8022858
		WAK5-1,5-WAS5/S398 8016478	...-2-... 8016480	...-5-... 8017371

Connecting Cables
Straight Female Connector M12 x 1 -
Straight Male Connector M12 x 1

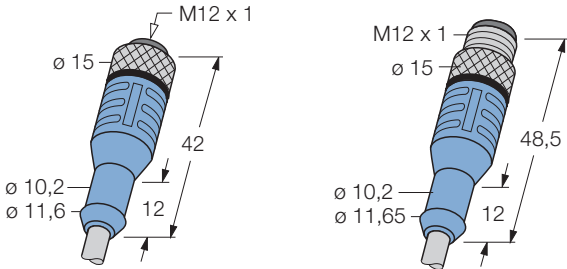


Connector female connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
8-pole 	PVC, GY 8 x0.25 mm² / Ø 5.7 mm	WAK8-0,3-WAS8/P00 8022862	...-0,6-... 8022863	...-1-... 8019131
	PUR, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WAK8-0,3-WAS8/S366 8022868	...-0,6-... 8022869	...-1-... 8022870
8-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 8 x0.25 mm² / Ø 5.7 mm	WAK8-1,5-WAS8/P00 8022864	...-2-... 8022865	...-5-... 8022866
	PUR, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WAK8-1,5-WAS8/S366 8022871	...-2-... 8022872	...-5-... 8022873

Connecting Cables

Straight Female Connector M12 x 1, Shielded -

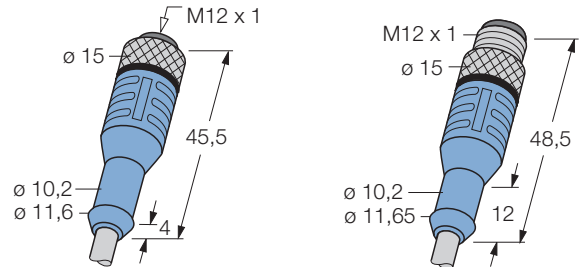
Straight Male Connector M12 x 1, Shielded

Connector female connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, shielded, GY 3 x 0.34 mm ² / Ø 5.2 mm	WAKS3-0,3-WASS3/P00 8006671	...-0,6-... 8006673	...-1-... 8006665
	PUR, shielded, halogen-free, GY 3 x 0.34 mm ² / Ø 5.2 mm	WAKS3-0,3-WASS3/S366 8022877	...-0,6-... 8022878	...-1-... 8022879
3-pole 	PVC, shielded, GY 3 x 0.34 mm ² / Ø 5.2 mm	WAKS3-1,5-WASS3/P00 8006675	...-2-... 8006667	...-5-... 8006669
	PUR, shielded, halogen-free, GY 3 x 0.34 mm ² / Ø 5.2 mm	WAKS3-1,5-WASS3/S366 8022880	...-2-... 8022881	...-5-... 8022882

Connecting Cables
Straight Female Connector M12 x 1, Shielded -
Straight Male Connector M12 x 1, Shielded

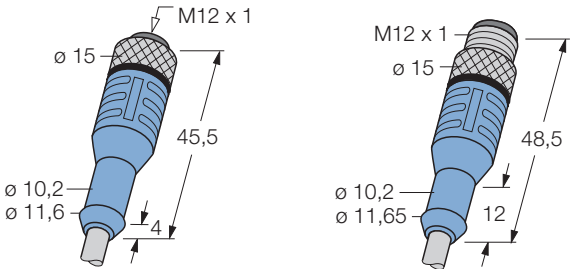


Connector female connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, shielded, GY 4 x0.34 mm² / Ø 5.2 mm	WAKS4-0,3-WASS4/P00 8006683	...-0,6-... 8006685	...-1-... 8006677
	PUR, shielded, halogen-free, GY 4 x0.34 mm² / Ø 5.2 mm	WAKS4-0,3-WASS4/S366 8022884	...-0,6-... 8022885	...-1-... 8022886
4-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 4 x0.34 mm² / Ø 5.2 mm	WAKS4-1,5-WASS4/P00 8006687	...-2-... 8006679	...-5-... 8006681
	PUR, shielded, halogen-free, GY 4 x0.34 mm² / Ø 5.2 mm	WAKS4-1,5-WASS4/S366 8022887	...-2-... 8022736	...-5-... 8022577

Connecting Cables

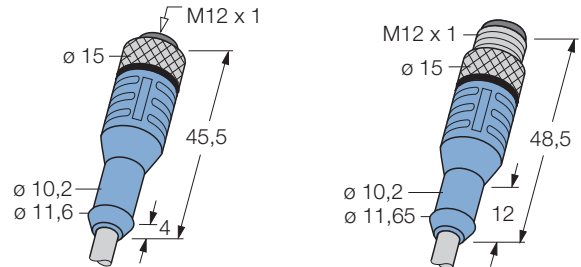
Straight Female Connector M12 x 1, Shielded - Straight Male Connector M12 x 1, Shielded

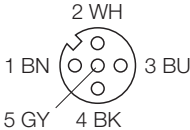
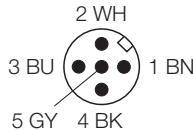
Connector female connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
5-pole  5-pole 	PVC, shielded, GY 5 x0.25 mm² / Ø 5.7 mm	WAKS4.5-0,3-WASS4.5/P00 8022889	...-0,6-... 8022890	...-1-... 8022891
	PUR, shielded, halogen-free, GY 5 x0.25 mm² / Ø 5.7 mm	WAKS4.5-0,3-WASS4.5/S366 8022703	...-0,6-... 8022704	...-1-... 8022699
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 5 x0.25 mm² / Ø 5.7 mm	WAKS4.5-1,5-WASS4.5/P00 8022892	...-2-... 8022893	...-5-... 8022894
	PUR, shielded, halogen-free, GY 5 x0.25 mm² / Ø 5.7 mm	WAKS4.5-1,5-WASS4.5/S366 8022705	...-2-... 8022700	...-5-... 8022702

Connecting Cables
Straight Female Connector M12 x 1, Shielded -
Straight Male Connector M12 x 1, Shielded

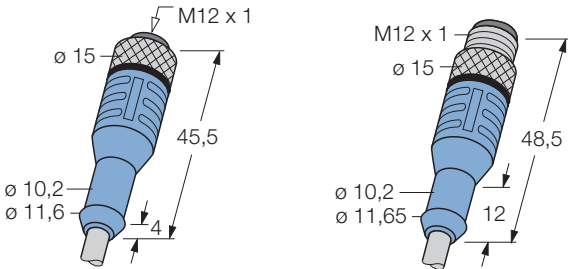


Connector female connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
8-pole 	PVC, shielded, GY 8 x0.25 mm² / Ø 6.2 mm	WAKS8-0,3-WASS8/P00 8022897	...-0,6-... 8022898	...-1-... 8022899
	PUR, shielded, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WAKS8-0,3-WASS8/S366 8022904	...-0,6-... 8022905	...-1-... 8020248
8-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 8 x0.25 mm² / Ø 6.2 mm	WAKS8-1,5-WASS8/P00 8022900	...-2-... 8022901	...-5-... 8022902
	PUR, shielded, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WAKS8-1,5-WASS8/S366 8022906	...-2-... 8022810	...-5-... 8022574

Connecting cables

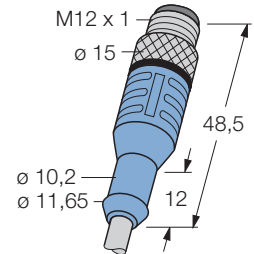
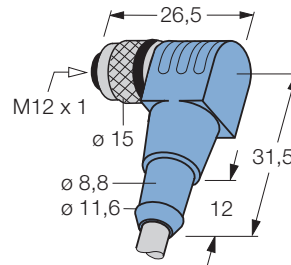
Angled Female Connector M12 x 1 - Straight Male Connector M12 x 1

Connector female connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-0,3-WAS3/P00 8006818	...-0,6-... 8006823	...-1-... 8006803
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-0,3-WAS3/XOR 8006820	...-0,6-... 8006825	...-1-... 8006805
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-0,3-WAS3/S90 8006819	...-0,6-... 8006824	...-1-... 8006804
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WWAK3-0,3-WAS3/S74 8006822	...-0,6-... 8006827	...-1-... 8006807
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WWAK3-0,3-WAS3/S366 8022908	...-0,6-... 8022909	...-1-... 8022910
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WWAK3-0,3-WAS3/S398 8022915	...-0,6-... 8022916	...-1-... 8020999
	Standard cable-length			
	3-pole 	1,5 m	2 m	5 m
		WWAK3-1,5-WAS3/P00 8006828	...-2-... 8006808	...-5-... 8006813
		WWAK3-1,5-WAS3/XOR 8006830	...-2-... 8006810	...-5-... 8006815
		WWAK3-1,5-WAS3/S90 8006829	...-2-... 8006809	...-5-... 8006814
		WWAK3-1,5-WAS3/S74 8006832	...-2-... 8006812	...-5-... 8006817
		WWAK3-1,5-WAS3/S366 8022911	...-2-... 8022912	...-5-... 8022913
		WWAK3-1,5-WAS3/S398 8021883	...-2-... 8022917	...-5-... 8022918

Connecting Cables

Angled Female Connector M12 x 1 -
Straight Male Connector M12 x 1

Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

Seal

female connector, M12 x 1, angled

plastic, TPU, blue

metal, CuZn, nickel-plated

plastic, TPU, black

metal, CuZn, gold-plated

plastic, FPM/FKM

Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

male connector, M12 x 1, straight

plastic, TPU, blue

metal, CuZn, nickel-plated

plastic, TPU, black

metal, CuZn, gold-plated

Rated voltage

Ampacity

Insulation resistance

Forward resistance

Pollution degree

max. 250 V

4 A

$\geq 10^9 \Omega$

$\leq 5 \text{ m}\Omega$

3

Ambient temperature Connector

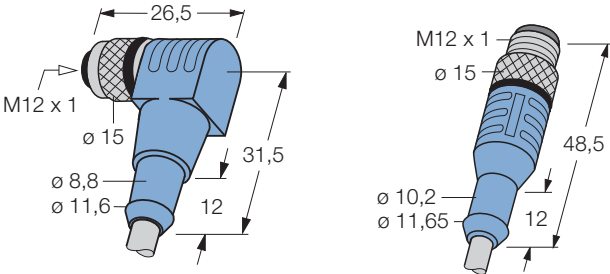
Degree of protection

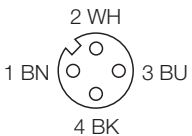
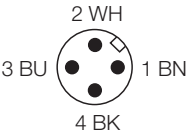
Mechanical lifespan

-30 ... +90 °C

IP67, only in screwed status

min. 100 contact durability



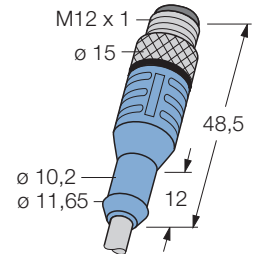
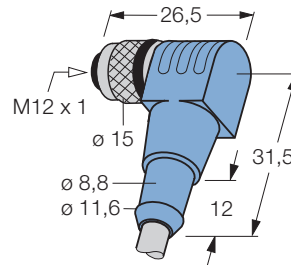
		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4-0,3-WAS4/P00 8006854	...-0,6-... 8006861	...-1-... 8006833
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4-0,3-WAS4/XOR 8006856	...-0,6-... 8006863	...-1-... 8006835
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4-0,3-WAS4/S90 8006855	...-0,6-... 8006862	...-1-... 8006834
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4-0,3-WAS4/S74 8006860	...-0,6-... 8006867	...-1-... 8006839
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WWAK4-0,3-WAS4/S366 8022920	...-0,6-... 8022921	...-1-... 8022922
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WWAK4-0,3-WAS4/S398 8017703	...-0,6-... 8017315	...-1-... 8017316
		Standard cable-length		
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	1,5 m	2 m	5 m
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4-1,5-WAS4/P00 8006868	...-2-... 8006840	...-5-... 8006847
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4-1,5-WAS4/XOR 8006870	...-2-... 8006842	...-5-... 8006849
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4-1,5-WAS4/S90 8006869	...-2-... 8006841	...-5-... 8006848
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WWAK4-1,5-WAS4/S74 8006874	...-2-... 8006846	...-5-... 8006853
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WWAK4-1,5-WAS4/S366 8022923	...-2-... 8022924	...-5-... 8022925
		WWAK4-1,5-WAS4/S398 8017317	...-2-... 8017318	...-5-... 8017528

Connecting Cables

Angled Female Connector M12 x 1 - Straight Male Connector M12 x 1

Connector female connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated



Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability

		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole + ground 	PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.5 mm	WWAK5-0,3-WAS5/P00 8006890	...-0,6-... 8006895	...-1-... 8006875
	PVC, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-0,3-WAS5/XOR 8006892	...-0,6-... 8006897	...-1-... 8006877
	PUR/PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-0,3-WAS5/S90 8006891	...-0,6-... 8006896	...-1-... 8006876
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.3 mm	WWAK5-0,3-WAS5/S74 8006894	...-0,6-... 8006899	...-1-... 8006879
	PUR, halogen-free, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-0,3-WAS5/S366 8022927	...-0,6-... 8022928	...-1-... 8022929
	PUR, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	WWAK5-0,3-WAS5/S398 8022934	...-0,6-... 8016491	...-1-... 8016493
		Standard cable-length		
4-pole + ground 	PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.5 mm	1,5 m	2 m	5 m
	PVC, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-1,5-WAS5/P00 8006900	...-2-... 8006880	...-5-... 8006885
	PUR/PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-1,5-WAS5/XOR 8006902	...-2-... 8006882	...-5-... 8006887
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.3 mm	WWAK5-1,5-WAS5/S90 8006901	...-2-... 8006881	...-5-... 8006886
	PUR, halogen-free, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-1,5-WAS5/S74 8006904	...-2-... 8006884	...-5-... 8006889
	PUR, halogen-free, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-1,5-WAS5/S366 8022930	...-2-... 8022931	...-5-... 8022932
	PUR, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	WWAK5-1,5-WAS5/S398 8016492	...-2-... 8020156	...-5-... 8022935

Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

Seal

female connector, M12 x 1, angled

plastic, TPU, blue

metal, CuZn, nickel-plated

plastic, TPU, black

metal, CuZn, gold-plated

plastic, FPM/FKM

Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

male connector, M12 x 1, straight

plastic, TPU, blue

metal, CuZn, nickel-plated

plastic, TPU, black

metal, CuZn, gold-plated

Rated voltage

Ampacity

Insulation resistance

Forward resistance

Pollution degree

max. 30 V

2 A

$\geq 10^9 \Omega$

$\leq 5 \text{ m}\Omega$

3

Ambient temperature Connector

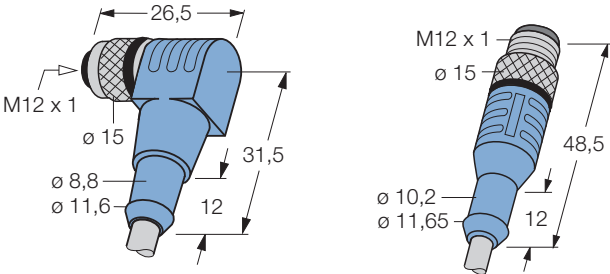
Degree of protection

Mechanical lifespan

-30 ... +90 °C

IP67, only in screwed status

min. 100 contact durability



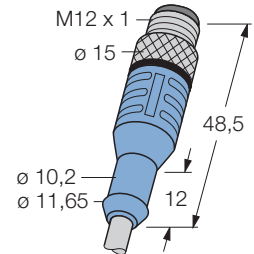
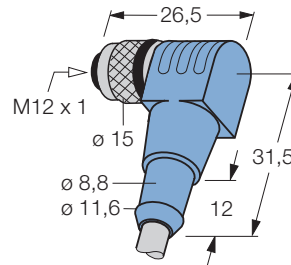
		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
Wire-construction				
8-pole 2 BN 3 GN 1 WH 8 RD 7 BU 6 PK 4 YE 5 GY	PVC, GY	WWAK8-0,3-WAS8/P00	...-0,6-...	...-1-...
	8 x0.25 mm² / Ø 5.7 mm	8022937	8022938	8022939
	PUR, halogen-free, GY	WWAK8-0,3-WAS8/S366	...-0,6-...	...-1-...
	8 x0.25 mm² / Ø 6.2 mm	8022944	8022945	8022946
8-pole 3 GN 2 BN 1 WH 8 RD 7 BU 6 PK 4 YE 5 GY	PVC, GY	WWAK8-1,5-WAS8/P00	...-2-...	...-5-...
	8 x0.25 mm² / Ø 5.7 mm	8022940	8022941	8022942
	PUR, halogen-free, GY	WWAK8-1,5-WAS8/S366	...-2-...	...-5-...
	8 x0.25 mm² / Ø 6.2 mm	8022947	8022948	8022949

Connecting Cables

Angled Female Connector M12 x 1, Shielded - Straight Male Connector M12 x 1, Shielded

Connector female connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated



Rated voltage max. 250 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability

		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, shielded, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAKS3-0,3-WASS3/P00 8023163	...-0,6-... 8023164	...-1-... 8023165
	PUR, shielded, halogen-free, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAKS3-0,3-WASS3/S366 8023170	...-0,6-... 8023171	...-1-... 8023172
3-pole 	PVC, shielded, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAKS3-1,5-WASS3/P00 8023166	...-2-... 8023167	...-5-... 8023168
	PUR, shielded, halogen-free, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAKS3-1,5-WASS3/S366 8023173	...-2-... 8023174	...-5-... 8023175

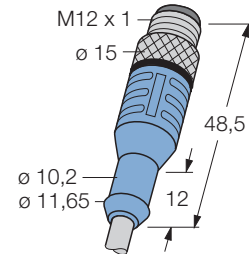
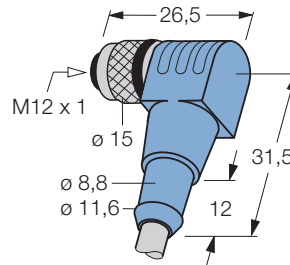
**Angled Female Connector M12 x 1, Shielded -
Straight Male Connector M12 x 1, Shielded**

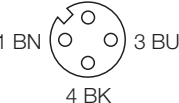
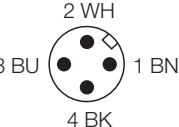
Connector	female connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM

Connector	male connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated

Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3

Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality Wire-construction	Type-designation	Order-number	
4-pole 	PVC, shielded, GY 4 x0.34 mm² / Ø 5.2 mm	WWAKS4-0,3-WASS4/P00 8023177	...-0,6-... 8023178	...-1-... 8023179
	PUR, shielded, halogen-free, GY 4 x0.34 mm² / Ø 5.2 mm	WWAKS4-0,3-WASS4/S366 8023184	...-0,6-... 8023185	...-1-... 8023186
4-pole 	PVC, shielded, GY 4 x0.34 mm² / Ø 5.2 mm	WWAKS4-1,5-WASS4/P00 8023180	...-2-... 8023181	...-5-... 8023182
	PUR, shielded, halogen-free, GY 4 x0.34 mm² / Ø 5.2 mm	WWAKS4-1,5-WASS4/S366 8023187	...-2-... 8023189	...-5-... 8023190

Connecting Cables

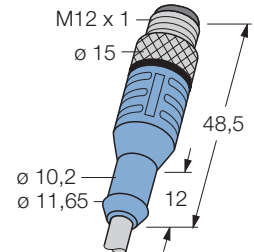
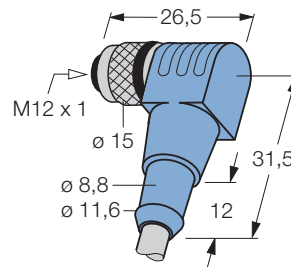
Angled Female Connector M12 x 1, Shielded - Straight Male Connector M12 x 1, Shielded

Connector female connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
5-pole 5-pole 	PVC, shielded, GY 5 x 0.25 mm ² / Ø 5.7 mm	WWAKS4.5-0,3-WASS4.5/P00 8023192	...-0,6-... 8023193	...-1-... 8023194
	PUR, shielded, halogen-free, GY 5 x 0.25 mm ² / Ø 5.7 mm	WWAKS4.5-0,3-WASS4.5/S366 8023199	...-0,6-... 8023200	...-1-... 8023201
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 5 x 0.25 mm ² / Ø 5.7 mm	WWAKS4.5-1,5-WASS4.5/P00 8023195	...-2-... 8023196	...-5-... 8023197
	PUR, shielded, halogen-free, GY 5 x 0.25 mm ² / Ø 5.7 mm	WWAKS4.5-1,5-WASS4.5/S366 8023202	...-2-... 8023203	...-5-... 8023204

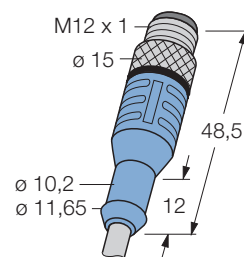
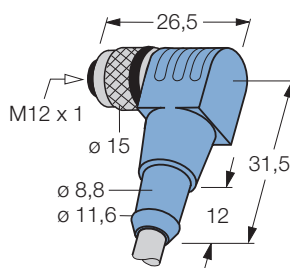
**Angled Female Connector M12 x 1, Shielded -
Straight Male Connector M12 x 1, Shielded**

Connector	female connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM

Connector	male connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated

Rated voltage	max. 30 V
Ampacity	2 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3

Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
	Wire-construction			
8-pole 	PVC, shielded, GY 8 x0.25 mm² / Ø 6.2 mm	WWAKS8-0,3-WASS8/P00 8023206	...-0,6-... 8023207	...-1-... 8023208
	PUR, shielded, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WWAKS8-0,3-WASS8/S366 8023213	...-0,6-... 8023214	...-1-... 8023215
8-pole 	PVC, shielded, GY 8 x0.25 mm² / Ø 6.2 mm	WWAKS8-1,5-WASS8/P00 8023209	...-2-... 8023210	...-5-... 8023211
	PUR, shielded, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WWAKS8-1,5-WASS8/S366 8023216	...-2-... 8023217	...-5-... 8023218

Connecting Cables

Angled Female Connector M12 x 1 -

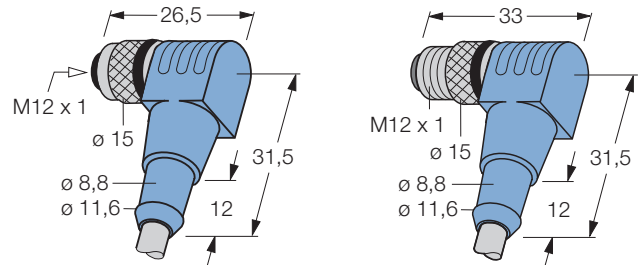
Angled Male Connector M12 x 1

Connector female connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

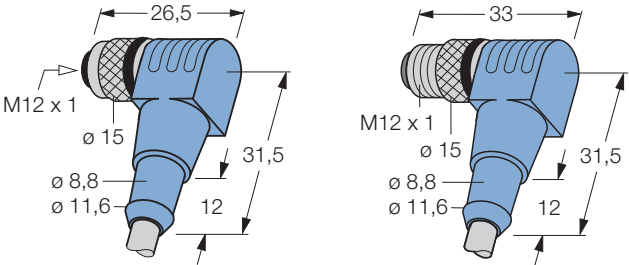
Rated voltage max. 250 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

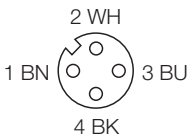
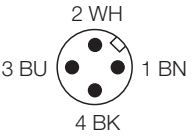
Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 3-pole 	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-0,3-WWAS3/P00 8006920	...-0,6-... 8006925	...-1-... 8006905
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-0,3-WWAS3/XOR 8006922	...-0,6-... 8006927	...-1-... 8006907
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-0,3-WWAS3/S90 8006921	...-0,6-... 8006926	...-1-... 8006906
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WWAK3-0,3-WWAS3/S74 8006924	...-0,6-... 8006929	...-1-... 8006909
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WWAK3-0,3-WWAS3/S366 8022951	...-0,6-... 8022952	...-1-... 8022953
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WWAK3-0,3-WWAS3/S398 8022958	...-0,6-... 8022959	...-1-... 8020981
	Standard cable-length			
	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-1,5-WWAS3/P00 8006930	...-2-... 8006910	...-5-... 8006915
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-1,5-WWAS3/XOR 8006932	...-2-... 8006912	...-5-... 8006917
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3-1,5-WWAS3/S90 8006931	...-2-... 8006911	...-5-... 8006916
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WWAK3-1,5-WWAS3/S74 8006934	...-2-... 8006914	...-5-... 8006919
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WWAK3-1,5-WWAS3/S366 8022954	...-2-... 8022955	...-5-... 8022956
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WWAK3-1,5-WWAS3/S398 8022960	...-2-... 8020982	...-5-... 8020984

Connector	female connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	male connector, M12 x 1, angled
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole  4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4-0,3-WWAS4/P00 8006956	...-0,6-... 8006963	...-1-... 8006935
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4-0,3-WWAS4/XOR 8006958	...-0,6-... 8006965	...-1-... 8006937
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4-0,3-WWAS4/S90 8006957	...-0,6-... 8006964	...-1-... 8006936
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4-0,3-WWAS4/S74 8006962	...-0,6-... 8006969	...-1-... 8006941
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WWAK4-0,3-WWAS4/S366 8022962	...-0,6-... 8022963	...-1-... 8022964
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WWAK4-0,3-WWAS4/S398 8017704	...-0,6-... 8017707	...-1-... 8017866
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4-1,5-WWAS4/P00 8006970	...-2-... 8006942	...-5-... 8006949
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4-1,5-WWAS4/XOR 8006972	...-2-... 8006944	...-5-... 8006951
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4-1,5-WWAS4/S90 8006971	...-2-... 8006943	...-5-... 8006950
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4-1,5-WWAS4/S74 8006976	...-2-... 8006948	...-5-... 8006955
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WWAK4-1,5-WWAS4/S366 8022965	...-2-... 8022966	...-5-... 8022967
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WWAK4-1,5-WWAS4/S398 8017867	...-2-... 8017868	...-5-... 8017869

Connecting Cables

Angled Female Connector M12 x 1 -

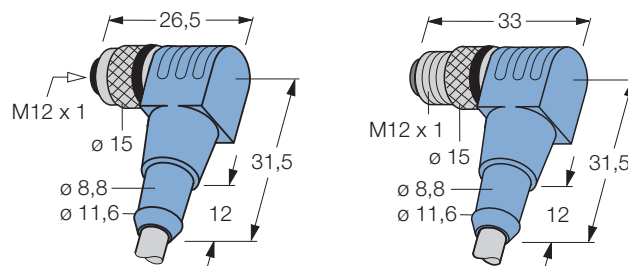
Angled Male Connector M12 x 1

Connector female connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole + ground 	PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.5 mm	WWAK5-0,3-WWAS5/P00 8006992	...-0,6-... 8006997	...-1-... 8006977
	PVC, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-0,3-WWAS5/XOR 8006994	...-0,6-... 8006999	...-1-... 8006979
	PUR/PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-0,3-WWAS5/S90 8006993	...-0,6-... 8006998	...-1-... 8006978
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.3 mm	WWAK5-0,3-WWAS5/S74 8006996	...-0,6-... 8007001	...-1-... 8006981
	PUR, halogen-free, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-0,3-WWAS5/S366 8022970	...-0,6-... 8022971	...-1-... 8022972
	PUR, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	WWAK5-0,3-WWAS5/S398 8023058	...-0,6-... 8023059	...-1-... 8023060
	Standard cable-length			
4-pole + ground 	PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.5 mm	WWAK5-1,5-WWAS5/P00 8007002	...-2-... 8006982	...-5-... 8006987
	PVC, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-1,5-WWAS5/XOR 8007004	...-2-... 8006984	...-5-... 8006989
	PUR/PVC, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-1,5-WWAS5/S90 8007003	...-2-... 8006983	...-5-... 8006988
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.3 mm	WWAK5-1,5-WWAS5/S74 8007006	...-2-... 8006986	...-5-... 8006991
	PUR, halogen-free, GY 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.7 mm	WWAK5-1,5-WWAS5/S366 8022973	...-2-... 8022974	...-5-... 8022975
	PUR, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	WWAK5-1,5-WWAS5/S398 8023061	...-2-... 8023062	...-5-... 8023063

Connecting Cables
Angled Female Connector M12 x 1 -
Angled Male Connector M12 x 1

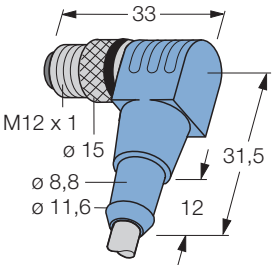
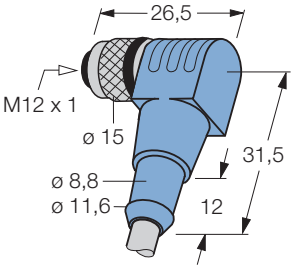


Connector female connector, M12 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
8-pole 	PVC, GY 8 x0.25 mm² / Ø 5.7 mm	WWAK8-0,3-WWAS8/P00 8023224	...-0,6-... 8023225	...-1-... 8023227
	PUR, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WWAK8-0,3-WWAS8/S366 8023232	...-0,6-... 8023234	...-1-... 8023235
8-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 8 x0.25 mm² / Ø 5.7 mm	WWAK8-1,5-WWAS8/P00 8023228	...-2-... 8023229	...-5-... 8023230
	PUR, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WWAK8-1,5-WWAS8/S366 8023237	...-2-... 8023238	...-5-... 8023239

Connecting Cables

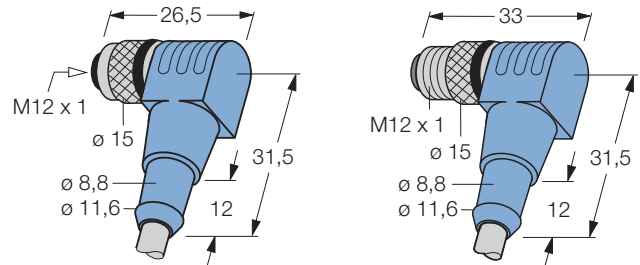
Angled Female Connector M12 x 1, Shielded - Angled Male Connector M12 x1, Shielded

Connector female connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 3-pole 	PVC, shielded, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAKS3-0,3-WWASS3/P00 8023262	...-0,6-... 8023263	...-1-... 8023264
	PUR, shielded, halogen-free, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAKS3-0,3-WWASS3/S366 8023269	...-0,6-... 8023270	...-1-... 8023271
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAKS3-1,5-WWASS3/P00 8023265	...-2-... 8023266	...-5-... 8023267
	PUR, shielded, halogen-free, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAKS3-1,5-WWASS3/S366 8023272	...-2-... 8023273	...-5-... 8023274

Connecting Cables

Angled Female Connector M12 x 1, Shielded -

Angled Male Connector M12 x 1, Shielded



Connector female connector, M12 x 1, angled

Grip plastic, TPU, blue

Coupling nut/screw metal, CuZn, nickel-plated

Contact carriers plastic, TPU, black

Contacts metal, CuZn, gold-plated

Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled

Grip plastic, TPU, blue

Coupling nut/screw metal, CuZn, nickel-plated

Contact carriers plastic, TPU, black

Contacts metal, CuZn, gold-plated

Rated voltage max. 250 V

Ampacity 4 A

Insulation resistance $\geq 10^9 \Omega$

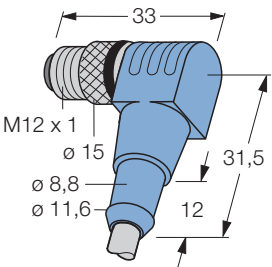
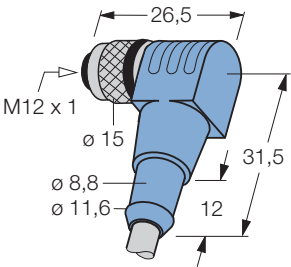
Forward resistance $\leq 5 \text{ m}\Omega$

Pollution degree 3

Ambient temperature Connector -30 ... +90 °C

Degree of protection IP67, only in screwed status

Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, shielded, GY 4 x0.34 mm² / Ø 5.2 mm	WWAKS4-0,3-WWASS4/P00 8023276	...-0,6-... 8023277	...-1-... 8023278
	PUR, shielded, halogen-free, GY 4 x0.34 mm² / Ø 5.2 mm	WWAKS4-0,3-WWASS4/S366 8023283	...-0,6-... 8023284	...-1-... 8023285
4-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 4 x0.34 mm² / Ø 5.2 mm	WWAKS4-1,5-WWASS4/P00 8023279	...-2-... 8023280	...-5-... 8023281
	PUR, shielded, halogen-free, GY 4 x0.34 mm² / Ø 5.2 mm	WWAKS4-1,5-WWASS4/S366 8023286	...-2-... 8023287	...-5-... 8023288

Connecting Cables

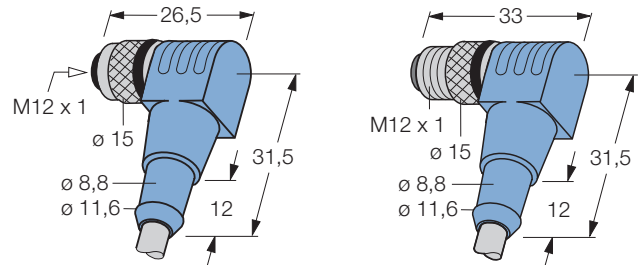
Angled Female Connector M12 x 1, Shielded - Angled Male Connector M12 x 1, Shielded

Connector female connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
5-pole 5-pole 	PVC, shielded, GY 5 x 0.25 mm ² / Ø 5.7 mm	WWAKS4.5-0,3-WWASS4.5/P00 8023290	...-0,6-... 8023291	...-1-... 8023292
	PUR, shielded, halogen-free, GY 5 x 0.25 mm ² / Ø 5.7 mm	WWAKS4.5-0,3-WWASS4.5/S366 8023297	...-0,6-... 8023298	...-1-... 8023299
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 5 x 0.25 mm ² / Ø 5.7 mm	WWAKS4.5-1,5-WWASS4.5/P00 8023293	...-2-... 8023294	...-5-... 8023295
	PUR, shielded, halogen-free, GY 5 x 0.25 mm ² / Ø 5.7 mm	WWAKS4.5-1,5-WWASS4.5/S366 8023300	...-2-... 8023301	...-5-... 8023302

Connecting Cables
Angled Female Connector M12 x 1, Shielded -
Angled Male Connector M12 x 1, Shielded

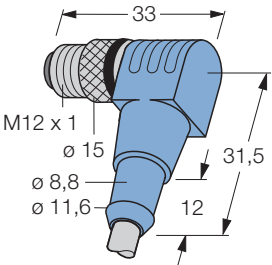
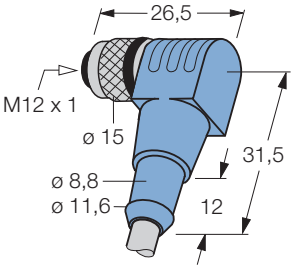


Connector female connector, M12 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
8-pole 	PVC, shielded, GY 8 x0.25 mm² / Ø 6.2 mm	WWAKS8-0,3-WWASS8/P00 8023072	...-0,6-... 8023073	...-1-... 8023074
	PUR, shielded, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WWAKS8-0,3-WWASS8/S366 8023076	...-0,6-... 8023077	...-1-... 8023078
8-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 8 x0.25 mm² / Ø 6.2 mm	WWAKS8-1,5-WWASS8/P00 8023075	...-2-... 8022022	...-5-... 8022023
	PUR, shielded, halogen-free, GY 8 x0.25 mm² / Ø 6.2 mm	WWAKS8-1,5-WWASS8/S366 8023079	...-2-... 8022025	...-5-... 8022026

Connecting Cables

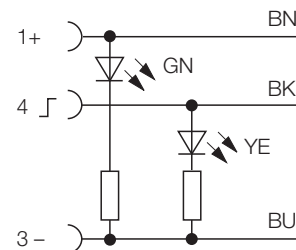
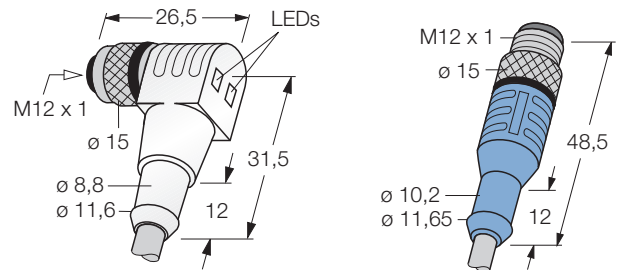
Angled Female Connector M12 x 1, with LED - Straight Male Connector M12 x 1

Connector female connector, M12 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ... 30 V
Ampacity 4 A
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 3-pole 	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-0,3-WAS3/P00 8010259	...-0,6-... 8010264	...-1-... 8010248
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-0,3-WAS3/XOR 8010260	...-0,6-... 8009344	...-1-... 8009332
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-0,3-WAS3/S90 8009341	...-0,6-... 8009343	...-1-... 8009331
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WWAK3P2-0,3-WAS3/S74 8010263	...-0,6-... 8009346	...-1-... 8009333
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WWAK3P2-0,3-WAS3/S366 8022977	...-0,6-... 8022978	...-1-... 8022979
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WWAK3P2-0,3-WAS3/S398 8010262	...-0,6-... 8010266	...-1-... 8010250
	Standard cable-length			
	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-1,5-WAS3/P00 8010267	...-2-... 8020251	...-5-... 8010256
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-1,5-WAS3/XOR 8009348	...-2-... 8009335	...-5-... 8009339
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-1,5-WAS3/S90 8009347	...-2-... 8009334	...-5-... 8009338
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WWAK3P2-1,5-WAS3/S74 8009350	...-2-... 8009336	...-5-... 8009340
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WWAK3P2-1,5-WAS3/S366 8022980	...-2-... 8022981	...-5-... 8022982
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WWAK3P2-1,5-WAS3/S398 8010269	...-2-... 8010253	...-5-... 8010258

Connecting Cables

Angled Female Connector M12 x 1, with LED -

Straight Male Connector M12 x 1



Connector female connector, M12 x 1, angled

Grip plastic, TPU, transparent

Coupling nut/screw metal, CuZn, nickel-plated

Contact carriers plastic, TPU, black

Contacts metal, CuZn, gold-plated

Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight

Grip plastic, TPU, blue

Coupling nut/screw metal, CuZn, nickel-plated

Contact carriers plastic, TPU, black

Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V

Ampacity 4 A

Pollution degree 3

Operating voltage display LED green

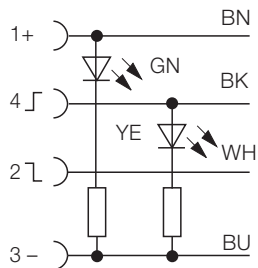
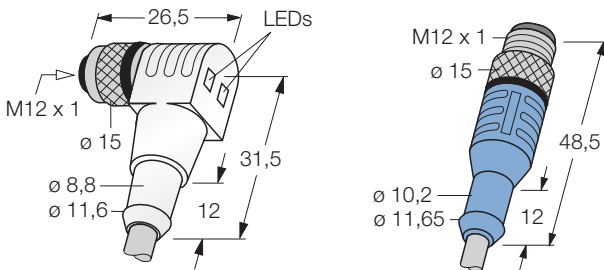
Display switch state LED yellow

Switching function pnp

Ambient temperature Connector -30 ... +90 °C

Degree of protection IP67, only in screwed status

Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-0,3-WAS4/P00 8011593	...-0,6-... 8011600	...-1-... 8011575
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-0,3-WAS4/XOR 8011595	...-0,6-... 8011602	...-1-... 8009351
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-0,3-WAS4/S90 8011594	...-0,6-... 8011601	...-1-... 8011576
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-0,3-WAS4/S74 8011599	...-0,6-... 8011606	...-1-... 8011579
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WWAK4P2-0,3-WAS4/S366 8022984	...-0,6-... 8022985	...-1-... 8022986
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WWAK4P2-0,3-WAS4/S398 8018910	...-0,6-... 8017911	...-1-... 8017471
4-pole 	Standard cable-length			
		1,5 m	2 m	5 m
	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-1,5-WAS4/P00 8011607	...-2-... 8011580	...-5-... 8011585
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-1,5-WAS4/XOR 8009358	...-2-... 8009353	...-5-... 8010272
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-1,5-WAS4/S90 8009357	...-2-... 8011581	...-5-... 8011586
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4P4-1,5-WAS4/S74 8011611	...-2-... 8009355	...-5-... 8011590
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WWAK4P2-1,5-WAS4/S366 8022987	...-2-... 8022988	...-5-... 8022989
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WWAK4P2-1,5-WAS4/S398 8017812	...-2-... 8017472	...-5-... 8016729

Connecting Cables

Angled Female Connector M12 x 1, with LED -

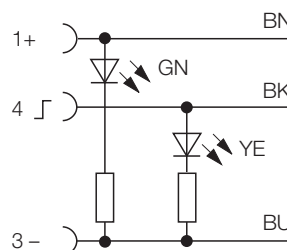
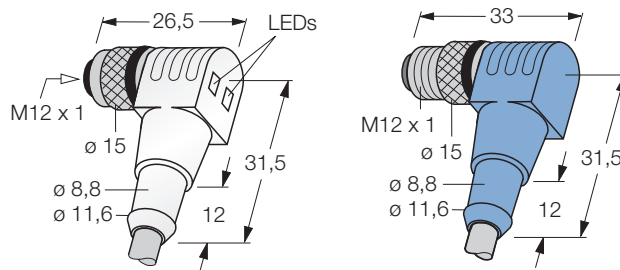
Angled Male Connector M12 x 1

Connector female connector, M12 x 1, angled
 Grip plastic, TPU, transparent
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage 10 ... 30 V
 Ampacity 4 A
 Pollution degree 3
 Operating voltage display LED green
 Display switch state LED yellow
 Switching function pnp

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-0,3-VWAS3/P00 8012896	...-0,6-... 8012897	...-1-... 8012898
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-0,3-VWAS3/XOR 8012906	...-0,6-... 8012907	...-1-... 8012908
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-0,3-VWAS3/S90 8012902	...-0,6-... 8012903	...-1-... 8012425
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WWAK3P2-0,3-VWAS3/S74 8012912	...-0,6-... 8012913	...-1-... 8012914
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WWAK3P2-0,3-VWAS3/S366 8023001	...-0,6-... 8023002	...-1-... 8023003
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WWAK3P2-0,3-VWAS3/S398 8023008	...-0,6-... 8017912	...-1-... 8017913
	Standard cable-length 1,5 m 2 m 5 m			
	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-1,5-VWAS3/P00 8012899	...-2-... 8012900	...-5-... 8012901
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-1,5-VWAS3/XOR 8012909	...-2-... 8012910	...-5-... 8012911
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	WWAK3P2-1,5-VWAS3/S90 8012904	...-2-... 8012419	...-5-... 8017068
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 4.6 mm	WWAK3P2-1,5-VWAS3/S74 8012915	...-2-... 8009360	...-5-... 8012916
	PUR, halogen-free, GY 3 x 0.34 mm ² / Ø 4.5 mm	WWAK3P2-1,5-VWAS3/S366 8023004	...-2-... 8023005	...-5-... 8023006
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WWAK3P2-1,5-VWAS3/S398 8017914	...-2-... 8017915	...-5-... 8017916

Connecting Cables

Angled Female Connector M12 x 1, with LED -

Angled Male Connector M12 x 1



Connector female connector, M12 x 1, angled

Grip plastic, TPU, transparent

Coupling nut/screw metal, CuZn, nickel-plated

Contact carriers plastic, TPU, black

Contacts metal, CuZn, gold-plated

Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled

Grip plastic, TPU, blue

Coupling nut/screw metal, CuZn, nickel-plated

Contact carriers plastic, TPU, black

Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V

Ampacity 4 A

Pollution degree 3

Operating voltage display LED green

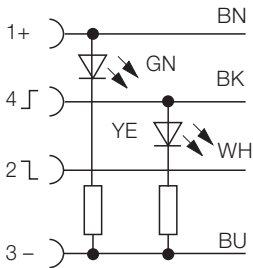
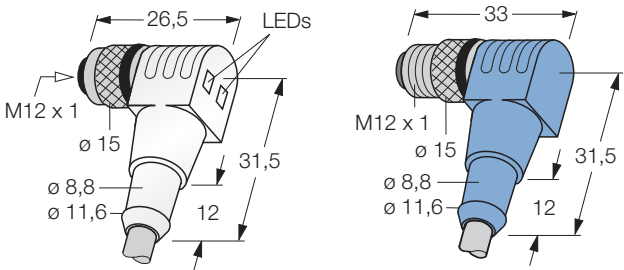
Display switch state LED yellow

Switching function pnp

Ambient temperature Connector -30 ... +90 °C

Degree of protection IP67, only in screwed status

Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 4-pole	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-0,3-WWAS4/P00 8012784	...-0,6-... 8012785	...-1-... 8012786
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-0,3-WWAS4/XOR 8012796	...-0,6-... 8012797	...-1-... 8012798
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-0,3-WWAS4/S90 8012790	...-0,6-... 8012791	...-1-... 8012792
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-0,3-WWAS4/S74 8012800	...-0,6-... 8012801	...-1-... 8012582
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WWAK4P2-0,3-WWAS4/S366 8023010	...-0,6-... 8023011	...-1-... 8023012
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WWAK4P2-0,3-WWAS4/S398 8023065	...-0,6-... 8023066	...-1-... 8023067
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-1,5-WWAS4/P00 8012787	...-2-... 8012788	...-5-... 8012789
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-1,5-WWAS4/XOR 8012799	...-2-... 8012697	...-5-... 8012696
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-1,5-WWAS4/S90 8012793	...-2-... 8012794	...-5-... 8012795
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 5.2 mm	WWAK4P2-1,5-WWAS4/S74 8012802	...-2-... 8012803	...-5-... 8012804
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WWAK4P2-1,5-WWAS4/S366 8023013	...-2-... 8023014	...-5-... 8023015
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WWAK4P2-1,5-WWAS4/S398 8023068	...-2-... 8023069	...-5-... 8023070

Connecting Cables

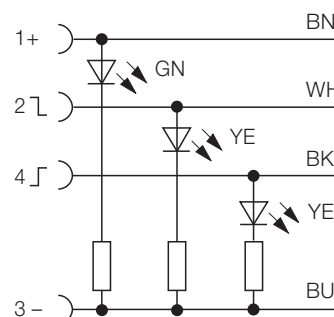
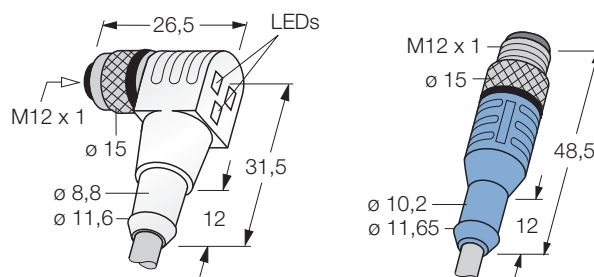
Angled Female Connector M12 x 1, with LED - Straight Male Connector M12 x 1



Connector female connector, M12 x 1, angled
 Grip plastic, TPU, transparent
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage 10 ... 30 V
 Ampacity 4 A
 Pollution degree 3
 Operating voltage display LED green
 Display switch state LED yellow/yellow
 Switching function pnp
 Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-0,3-WAS4/P00 8009383	...-0,6-... 8009391	...-1-... 8009361
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-0,3-WAS4/XOR 8009385	...-0,6-... 8008660	...-1-... 8008652
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-0,3-WAS4/S90 8009384	...-0,6-... 8009392	...-1-... 8009362
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-0,3-WAS4/S74 8009390	...-0,6-... 8008661	...-1-... 8009367
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WWAK4P3-0,3-WAS4/S366 8023017	...-0,6-... 8023018	...-1-... 8023019
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WWAK4P3-0,3-WAS4/S398 8009389	...-0,6-... 8009396	...-1-... 8009366
	Standard cable-length			
4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-1,5-WAS4/P00 8009397	...-2-... 8009368	...-5-... 8009375
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-1,5-WAS4/XOR 8009399	...-2-... 8008653	...-5-... 8008656
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-1,5-WAS4/S90 8009398	...-2-... 8009369	...-5-... 8009376
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-1,5-WAS4/S74 8008662	...-2-... 8008654	...-5-... 8009381
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WWAK4P3-1,5-WAS4/S366 8023020	...-2-... 8023021	...-5-... 8023022
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WWAK4P3-1,5-WAS4/S398 8009403	...-2-... 8009373	...-5-... 8009380

Subject to change without notice Edition: 11.2008

Connecting Cables
Angled Female Connector M12 x 1, with LED -
Straight Male Connector M12 x 1

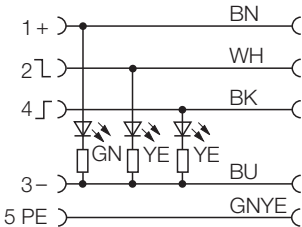
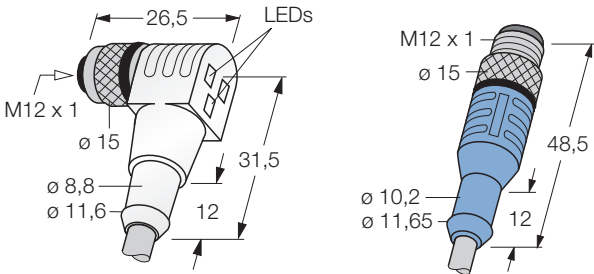


Connector female connector, M12 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V
Ampacity 4 A
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow/yellow
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	WWAK5P3-0,3-WAS5/P00 8013537	...-0,6-... 8013538	...-1-... 8013539
	PVC, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-0,3-WAS5/XOR 8013549	...-0,6-... 8013550	...-1-... 8013551
	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-0,3-WAS5/S90 8013543	...-0,6-... 8013544	...-1-... 8013545
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.3 mm	WWAK5P3-0,3-WAS5/S74 8013555	...-0,6-... 8013556	...-1-... 8013557
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-0,3-WAS5/S366 8023037	...-0,6-... 8023038	...-1-... 8023039
	PUR, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.2 mm	WWAK5P3-0,3-WAS5/S398 8019197	...-0,6-... 8017204	...-1-... 8023026
		Standard cable-length		
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	1,5 m	2 m	5 m
	PVC, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-1,5-WAS5/P00 8013540	...-2-... 8013541	...-5-... 8013542
	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-1,5-WAS5/XOR 8013552	...-2-... 8013553	...-5-... 8013554
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.3 mm	WWAK5P3-1,5-WAS5/S90 8013546	...-2-... 8013547	...-5-... 8013548
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-1,5-WAS5/S74 8013558	...-2-... 8013559	...-5-... 8013560
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-1,5-WAS5/S366 8023040	...-2-... 8023041	...-5-... 8023042
	PUR, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.2 mm	WWAK5P3-1,5-WAS5/S398 8023027	...-2-... 8021980	...-5-... 8017372

Connecting Cables

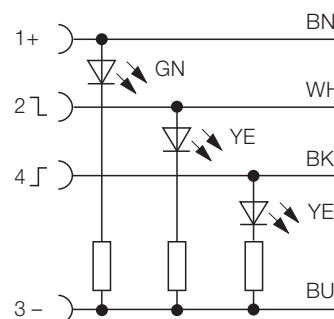
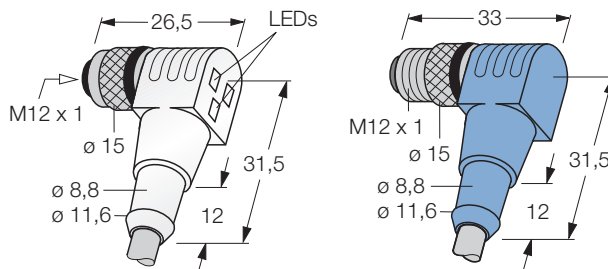
Angled Female Connector M12 x 1, with LED - Straight Male Connector M12 x 1

Connector female connector, M12 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ... 30 V
Ampacity 4 A
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow/yellow
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-0,3-WWAS4/P00 8022126	...-0,6-... 8022127	...-1-... 8022128
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-0,3-WWAS4/XOR 8022134	...-0,6-... 8022135	...-1-... 8017368
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-0,3-WWAS4/S90 8018748	...-0,6-... 8017784	...-1-... 8017785
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-0,3-WWAS4/S74 8022142	...-0,6-... 8022146	...-1-... 8022147
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WWAK4P3-0,3-WWAS4/S366 8023044	...-0,6-... 8023045	...-1-... 8023046
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WWAK4P3-0,3-WWAS4/S398 8017603	...-0,6-... 8016800	...-1-... 8017605
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-1,5-WWAS4/P00 8022129	...-2-... 8022130	...-5-... 8022131
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-1,5-WWAS4/XOR 8022136	...-2-... 8022137	...-5-... 8022139
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-1,5-WWAS4/S90 8018428	...-2-... 8018429	...-5-... 8018749
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3-1,5-WWAS4/S74 8022150	...-2-... 8022151	...-5-... 8022152
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WWAK4P3-1,5-WWAS4/S366 8023047	...-2-... 8023048	...-5-... 8023049
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WWAK4P3-1,5-WWAS4/S398 8017604	...-2-... 8017606	...-5-... 8023024

Connecting Cables

Angled Female Connector M12 x 1, with LED -

Angled Male Connector M12 x 1



Connector female connector, M12 x 1, angled

Grip plastic, TPU, transparent

Coupling nut/screw metal, CuZn, nickel-plated

Contact carriers plastic, TPU, black

Contacts metal, CuZn, gold-plated

Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled

Grip plastic, TPU, blue

Coupling nut/screw metal, CuZn, nickel-plated

Contact carriers plastic, TPU, black

Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V

Ampacity 4 A

Pollution degree 3

Operating voltage display LED green

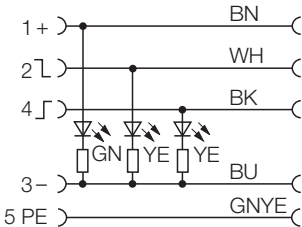
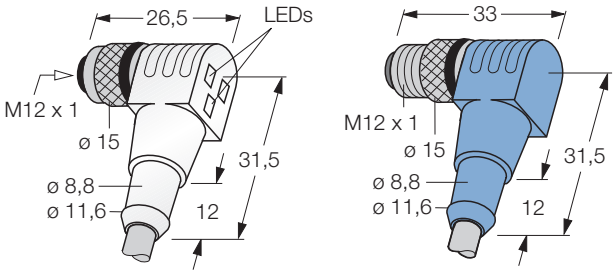
Display switch state LED yellow/yellow

Switching function pnp

Ambient temperature Connector -30 ... +90 °C

Degree of protection IP67, only in screwed status

Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	WWAK5P3-0,3-WWAS5/P00 8023051	...-0,6-... 8023052	...-1-... 8023053
	PVC, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-0,3-WWAS5/XOR 8023311	...-0,6-... 8023312	...-1-... 8023313
	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-0,3-WWAS5/S90 8023304	...-0,6-... 8023305	...-1-... 8023306
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.3 mm	WWAK5P3-0,3-WWAS5/S74 8023318	...-0,6-... 8023319	...-1-... 8023320
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-0,3-WWAS5/S366 8022308	...-0,6-... 8022309	...-1-... 8022329
	PUR, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.2 mm	WWAK5P3-0,3-WWAS5/S398 8022334	...-0,6-... 8022335	...-1-... 8022336
		Standard cable-length		
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	1,5 m WWAK5P3-1,5-WWAS5/P00 8023054	2 m ...-2-... 8023055	5 m ...-5-... 8023056
	PVC, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-1,5-WWAS5/XOR 8023314	...-2-... 8023315	...-5-... 8023316
	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-1,5-WWAS5/S90 8023307	...-2-... 8023308	...-5-... 8023309
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.3 mm	WWAK5P3-1,5-WWAS5/S74 8023321	...-2-... 8023322	...-5-... 8023323
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3-1,5-WWAS5/S366 8022330	...-2-... 8022331	...-5-... 8022332
	PUR, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.2 mm	WWAK5P3-1,5-WWAS5/S398 8022337	...-2-... 8022338	...-5-... 8022339

Connecting Cables

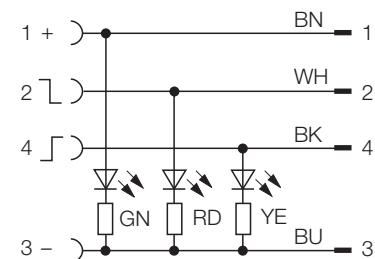
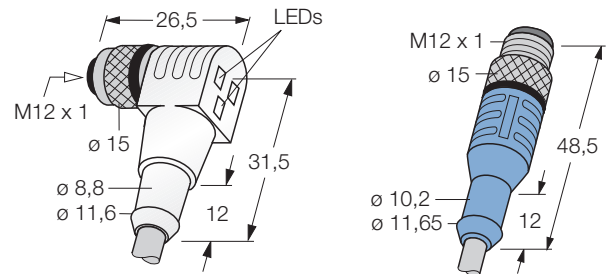
Angled Female Connector M12 x 1, with LED - Straight Male Connector M12 x 1

Connector female connector, M12 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ... 30 V
Ampacity 4 A
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow/red
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-0,3-WAS4/P00 8010301	...-0,6-... 8010310	...-1-... 8010276
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-0,3-WAS4/XOR 8010303	...-0,6-... 8010312	...-1-... 8009404
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-0,3-WAS4/S90 8010302	...-0,6-... 8010311	...-1-... 8010277
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-0,3-WAS4/S74 8010308	...-0,6-... 8010317	...-1-... 8010282
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WWAK4P3.1-0,3-WAS4/S366 8022413	...-0,6-... 8022414	...-1-... 8022415
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WWAK4P3.1-0,3-WAS4/S398 8010307	...-0,6-... 8010316	...-1-... 8010281
	Standard cable-length			
4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-1,5-WAS4/P00 8010318	...-2-... 8010283	...-5-... 8010292
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-1,5-WAS4/XOR 8010320	...-2-... 8009405	...-5-... 8010294
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-1,5-WAS4/S90 8010319	...-2-... 8010284	...-5-... 8010293
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 5.2 mm	WWAK4P3.1-1,5-WAS4/S74 8010325	...-2-... 8010289	...-5-... 8010299
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.7 mm	WWAK4P3.1-1,5-WAS4/S366 8022416	...-2-... 8022417	...-5-... 8022418
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	WWAK4P3.1-1,5-WAS4/S398 8010324	...-2-... 8010288	...-5-... 8022420

Connecting Cables
Angled Female Connector M12 x 1, with LED -
Straight Male Connector M12 x 1

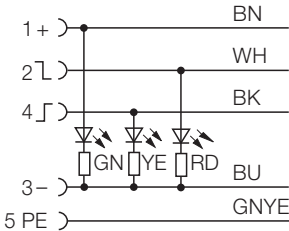
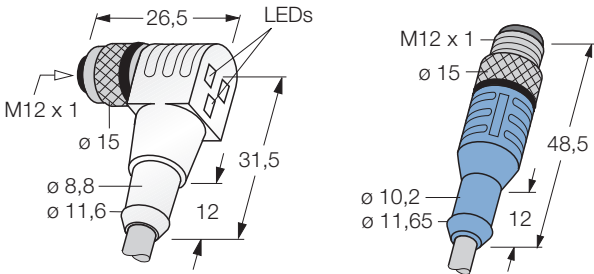


Connector female connector, M12 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V
Ampacity 4 A
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow/red
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	WWAK5P3.1-0,3-WAS5/P00 8010747	...-0,6-... 8010752	...-1-... 8010733
	PVC, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-0,3-WAS5/XOR 8010749	...-0,6-... 8010754	...-1-... 8010735
	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-0,3-WAS5/S90 8010748	...-0,6-... 8010753	...-1-... 8010734
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.3 mm	WWAK5P3.1-0,3-WAS5/S74 8010751	...-0,6-... 8010755	...-1-... 8010736
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-0,3-WAS5/S366 8022422	...-0,6-... 8022423	...-1-... 8022424
	PUR, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.2 mm	WWAK5P3.1-0,3-WAS5/S398 8020094	...-0,6-... 8016495	...-1-... 8016497
		Standard cable-length		
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	1,5 m	2 m	5 m
	PVC, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-1,5-WAS5/P00 8010756	...-2-... 8010737	...-5-... 8010742
	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-1,5-WAS5/XOR 8010758	...-2-... 8010739	...-5-... 8010744
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.3 mm	WWAK5P3.1-1,5-WAS5/S90 8010757	...-2-... 8010738	...-5-... 8010743
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-1,5-WAS5/S74 8010759	...-2-... 8010741	...-5-... 8010746
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-1,5-WAS5/S366 8022425	...-2-... 8022426	...-5-... 8022427
	PUR, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.2 mm	WWAK5P3.1-1,5-WAS5/S398 8016496	...-2-... 8016271	...-5-... 8017763

Connecting Cables

Angled Female Connector M12 x 1, with LED -

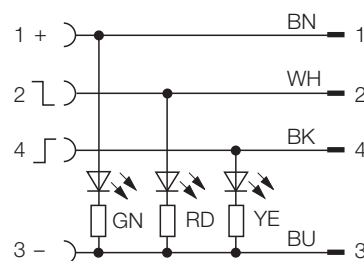
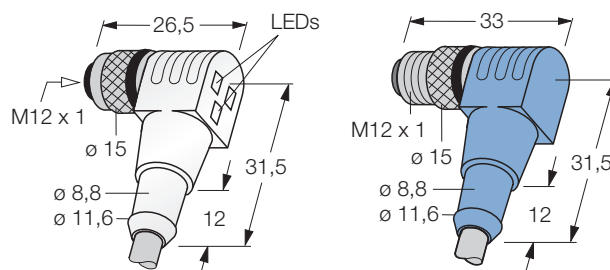
Angled Male Connector M12 x 1

Connector female connector, M12 x 1, angled
 Grip plastic, TPU, transparent
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V
 Ampacity 4 A
 Pollution degree 3
 Operating voltage display LED green
 Display switch state LED yellow/red
 Switching function pnp

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 4-pole 	PVC, GY 4 x 0.34 mm² / Ø 5.2 mm	WWAK4P3.1-0,3-WWAS4/P00 8011636	...-0,6-... 8011644	...-1-... 8011612
	PVC, irradiated, OG 4 x 0.34 mm² / Ø 5.2 mm	WWAK4P3.1-0,3-WWAS4/XOR 8011638	...-0,6-... 8011646	...-1-... 8011614
	PUR/PVC, GY 4 x 0.34 mm² / Ø 5.2 mm	WWAK4P3.1-0,3-WWAS4/S90 8011637	...-0,6-... 8011645	...-1-... 8011613
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm² / Ø 5.2 mm	WWAK4P3.1-0,3-WWAS4/S74 8011643	...-0,6-... 8011651	...-1-... 8011619
	PUR, halogen-free, GY 4 x 0.34 mm² / Ø 4.7 mm	WWAK4P3.1-0,3-WWAS4/S366 8022430	...-0,6-... 8022431	...-1-... 8022432
	PUR, irradiated, OG 4 x 0.34 mm² / Ø 4.8 mm	WWAK4P3.1-0,3-WWAS4/S398 8011642	...-0,6-... 8011650	...-1-... 8011618
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x 0.34 mm² / Ø 5.2 mm	WWAK4P3.1-1,5-WWAS4/P00 8011652	...-2-... 8011620	...-5-... 8011628
	PVC, irradiated, OG 4 x 0.34 mm² / Ø 5.2 mm	WWAK4P3.1-1,5-WWAS4/XOR 8011654	...-2-... 8011622	...-5-... 8011630
	PUR/PVC, GY 4 x 0.34 mm² / Ø 5.2 mm	WWAK4P3.1-1,5-WWAS4/S90 8011653	...-2-... 8011621	...-5-... 8011629
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm² / Ø 5.2 mm	WWAK4P3.1-1,5-WWAS4/S74 8011659	...-2-... 8011627	...-5-... 8011635
	PUR, halogen-free, GY 4 x 0.34 mm² / Ø 4.7 mm	WWAK4P3.1-1,5-WWAS4/S366 8022433	...-2-... 8022434	...-5-... 8022435
	PUR, irradiated, OG 4 x 0.34 mm² / Ø 4.8 mm	WWAK4P3.1-1,5-WWAS4/S398 8011658	...-2-... 8011626	...-5-... 8011634

Connecting Cables
Angled Female Connector M12 x 1, with LED -
Angled Male Connector M12 x 1

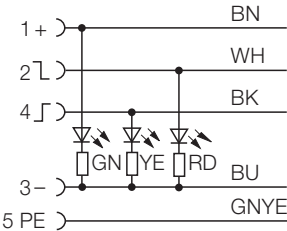
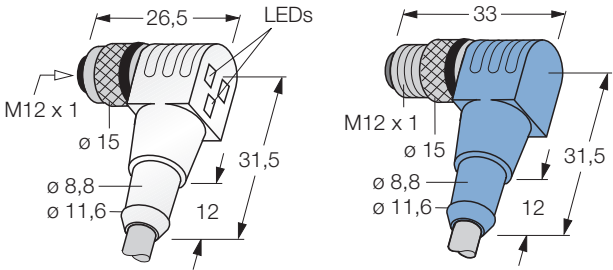


Connector female connector, M12 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V
Ampacity 4 A
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow/red
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
Wire-construction				
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	WWAK5P3.1-0,3-WWAS5/P00 8022263	...-0,6-... 8022264	...-1-... 8022265
	PVC, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-0,3-WWAS5/XOR 8022251	...-0,6-... 8022252	...-1-... 8022253
	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-0,3-WWAS5/XOR 8022270	...-0,6-... 8022271	...-1-... 8022272
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.3 mm	WWAK5P3.1-0,3-WWAS5/S74 8022256	...-0,6-... 8022257	...-1-... 8022258
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-0,3-WWAS5/S366 8022437	...-0,6-... 8022438	...-1-... 8022439
	PUR, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.2 mm	WWAK5P3.1-0,3-WWAS5/S398 8022342	...-0,6-... 8022343	...-1-... 8021385
		Standard cable-length		
4-pole + ground 	PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.5 mm	1,5 m WWAK5P3.1-1,5-WWAS5/P00 8022266	2 m ...-2-... 8022267	5 m ...-5-... 8022268
	PVC, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-1,5-WWAS5/XOR 8017381	...-2-... 8022254	...-5-... 8021723
	PUR/PVC, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-1,5-WWAS5/S90 8022273	...-2-... 8022275	...-5-... 8022276
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.3 mm	WWAK5P3.1-1,5-WWAS5/S74 8022259	...-2-... 8022260	...-5-... 8022261
	PUR, halogen-free, GY 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.7 mm	WWAK5P3.1-1,5-WWAS5/S366 8022440	...-2-... 8022441	...-5-... 8022442
	PUR, irradiated, OG 4 x0.34 mm² / 1 x0.5 mm² / Ø 5.2 mm	WWAK5P3.1-1,5-WWAS5/S398 8022344	...-2-... 8022345	...-5-... 8022346

Connecting Cables

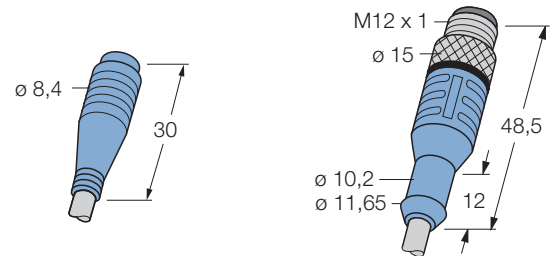
Straight Female Connector Ø 8mm, Snap-In - Straight Male Connector M12 x 1

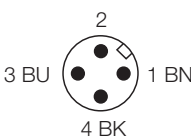
Connector female connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged/screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	KP3-0,3-WAS3/P00 8007766	...-0,6-... 8007770	...-1-... 8007754
	PVC, irradiated, OG 3 x 0.25 mm² / Ø 4.4 mm	KP3-0,3-WAS3/XOR 8007768	...-0,6-... 8007772	...-1-... 8007756
	PUR/PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	KP3-0,3-WAS3/S90 8007767	...-0,6-... 8007771	...-1-... 8007755
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm² / Ø 4.4 mm	KP3-0,3-WAS3/S74 8007769	...-0,6-... 8007773	...-1-... 8007757
	PUR, halogen-free, GY 3 x 0.25 mm² / Ø 4.5 mm	KP3-0,3-WAS3/S366 8023796	...-0,6-... 8023797	...-1-... 8023798
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	KP3-0,3-WAS3/S77/S398 8023803	...-0,6-... 8023804	...-1-... 8023805
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		KP3-1,5-WAS3/P00 8007774	...-2-... 8007758	...-5-... 8007762
		KP3-1,5-WAS3/XOR 8007776	...-2-... 8007760	...-5-... 8007764
		KP3-1,5-WAS3/S90 8007775	...-2-... 8007759	...-5-... 8007763
		KP3-1,5-WAS3/S74 8007777	...-2-... 8007761	...-5-... 8007765
		KP3-1,5-WAS3/S366 8023799	...-2-... 8023800	...-5-... 8023801
		KP3-1,5-WAS3/S77/S398 8023806	...-2-... 8023807	...-5-... 8023808

Connecting Cables
Straight Female Connector Ø 8mm, Snap-In -
Straight Male Connector M12 x 1

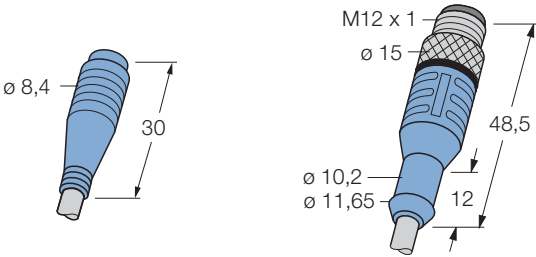


Connector female connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged/screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	KP4-0,3-WAS4/P00 8007784	...-0,6-... 8007786	...-1-... 8007778
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	KP4-0,3-WAS4/XOR 8009518	...-0,6-... 8009519	...-1-... 8009515
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	KP4-0,3-WAS4/S90 8007785	...-0,6-... 8007787	...-1-... 8007779
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	KP4-0,3-WAS4/S77/S366 8023810	...-0,6-... 8023811	...-1-... 8023812
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	KP4-0,3-WAS4/S77/S398 8023817	...-0,6-... 8023818	...-1-... 8023819
4-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	KP4-1,5-WAS4/P00 8007788	...-2-... 8007780	...-5-... 8007782
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	KP4-1,5-WAS4/XOR 8009520	...-2-... 8009516	...-5-... 8009517
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	KP4-1,5-WAS4/S90 8007789	...-2-... 8007781	...-5-... 8007783
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	KP4-1,5-WAS4/S77/S366 8023813	...-2-... 8023814	...-5-... 8023815
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	KP4-1,5-WAS4/S77/S398 8023820	...-2-... 8023821	...-5-... 8023822

Connecting Cables

Straight Female Connector Ø 8mm, Snap-In, with Locking-Ring - Straight Male Connector M12 x 1

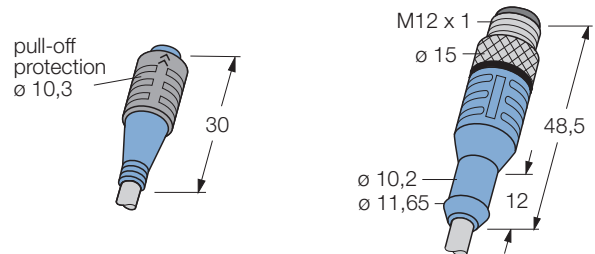


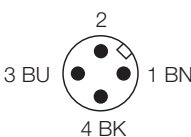
Connector female connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated
Pull-off protection plastic, POM, black

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged/screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-0,3-WAS3/P00 8007564	...-0,6-... 8007568	...-1-... 8007552
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-0,3-WAS3/XOR 8007566	...-0,6-... 8007570	...-1-... 8007554
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-0,3-WAS3/S90 8007565	...-0,6-... 8007569	...-1-... 8007553
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-0,3-WAS3/S74 8007567	...-0,6-... 8007571	...-1-... 8007555
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	ZKP3-0,3-WAS3/S366 8023824	...-0,6-... 8023825	...-1-... 8023826
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	ZKP3-0,3-WAS3/S77/S398 8023831	...-0,6-... 8023833	...-1-... 8023832
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		ZKP3-1,5-WAS3/P00 8007572	...-2-... 8007556	...-5-... 8007560
		ZKP3-1,5-WAS3/XOR 8007574	...-2-... 8007558	...-5-... 8007562
		ZKP3-1,5-WAS3/S90 8007573	...-2-... 8007557	...-5-... 8007561
		ZKP3-1,5-WAS3/S74 8007575	...-2-... 8007559	...-5-... 8007563
		ZKP3-1,5-WAS3/S366 8023827	...-2-... 8023828	...-5-... 8023829
		ZKP3-1,5-WAS3/S77/S398 8023834	...-2-... 8023835	...-5-... 8023836

Connecting Cables
Straight Female Connector Ø 8mm, Snap-In,
with Locking-Ring - Straight Male Connector M12 x 1

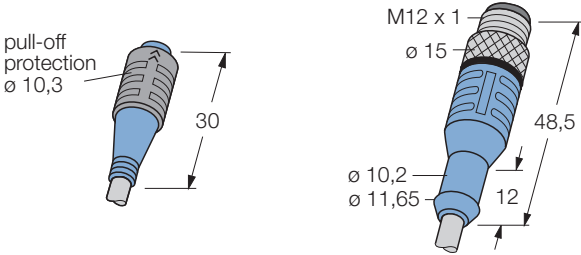


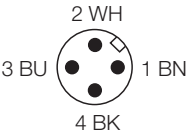
Connector female connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated
Pull-off protection plastic, POM, black

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged/screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
Wire-construction				
4-pole 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZKP4-0,3-WAS4/P00 8007582	...-0,6-... 8007584	...-1-... 8007576
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	ZKP4-0,3-WAS4/XOR 8009473	...-0,6-... 8009474	...-1-... 8009470
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZKP4-0,3-WAS4/S90 8007583	...-0,6-... 8007585	...-1-... 8007577
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	ZKP4-0,3-WAS4/S77/S366 8023838	...-0,6-... 8023839	...-1-... 8023840
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	ZKP4-0,3-WAS4/S77/S398 8023845	...-0,6-... 8023846	...-1-... 8023847
4-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZKP4-1,5-WAS4/P00 8007586	...-2-... 8007578	...-5-... 8007580
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	ZKP4-1,5-WAS4/XOR 8009475	...-2-... 8009471	...-5-... 8009472
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZKP4-1,5-WAS4/S90 8007587	...-2-... 8007579	...-5-... 8007581
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	ZKP4-1,5-WAS4/S77/S366 8023841	...-2-... 8023842	...-5-... 8023843
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	ZKP4-1,5-WAS4/S77/S398 8023848	...-2-... 8023849	...-5-... 8023850

Connecting Cables

Straight Female Connector M8 x 1 -

Straight Male Connector M12 x 1

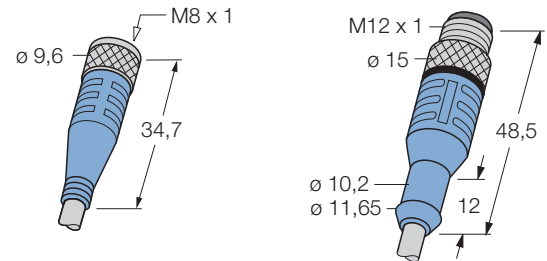


Connector female connector, M8 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-0,3-WAS3/P00 8007457	...-0,6-... 8007461	...-1-... 8007445
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-0,3-WAS3/XOR 8007459	...-0,6-... 8007463	...-1-... 8007447
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-0,3-WAS3/S90 8007458	...-0,6-... 8007462	...-1-... 8007446
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-0,3-WAS3/S74 8007460	...-0,6-... 8007464	...-1-... 8007448
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SKP3-0,3-WAS3/S366 8023852	...-0,6-... 8023853	...-1-... 8023854
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SKP3-0,3-WAS3/S77/S398 8023859	...-0,6-... 8023860	...-1-... 8023861
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		SKP3-1,5-WAS3/P00 8007465	...-2-... 8007449	...-5-... 8007453
		SKP3-1,5-WAS3/XOR 8007467	...-2-... 8007451	...-5-... 8007455
		SKP3-1,5-WAS3/S90 8007466	...-2-... 8007450	...-5-... 8007454
		SKP3-1,5-WAS3/S74 8007468	...-2-... 8007452	...-5-... 8007456
		SKP3-1,5-WAS3/S366 8023855	...-2-... 8023856	...-5-... 8023857
		SKP3-1,5-WAS3/S77/S398 8023862	...-2-... 8023863	...-5-... 8023864

Subject to change without notice Edition: 11.2008

Connecting Cables
Straight Female Connector M8 x 1 -
Straight Male Connector M12 x 1

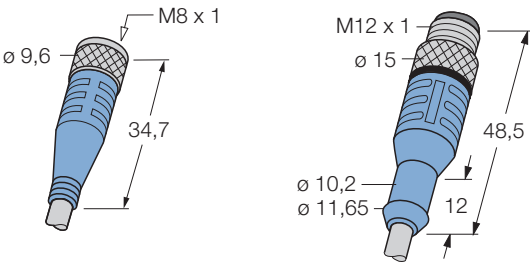


Connector female connector, M8 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SKP4-0,3-WAS4/P00 8007475	...-0,6-... 8007477	...-1-... 8007469
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	SKP4-0,3-WAS4/XOR 8009454	...-0,6-... 8009455	...-1-... 8009451
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SKP4-0,3-WAS4/S90 8007476	...-0,6-... 8007478	...-1-... 8007470
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	SKP4-0,3-WAS4/S77/S366 8023866	...-0,6-... 8023867	...-1-... 8023868
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	SKP4-0,3-WAS4/S77/S398 8023873	...-0,6-... 8023874	...-1-... 8023875
4-pole 2 WH 3 BU 1 BN 4 BK		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SKP4-1,5-WAS4/P00 8007479	...-2-... 8007471	...-5-... 8007473
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	SKP4-1,5-WAS4/XOR 8009456	...-2-... 8009452	...-5-... 8009453
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SKP4-1,5-WAS4/S90 8007480	...-2-... 8007472	...-5-... 8007474
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	SKP4-1,5-WAS4/S77/S366 8023869	...-2-... 8023870	...-5-... 8023871
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	SKP4-1,5-WAS4/S77/S398 8023876	...-2-... 8023877	...-5-... 8023878

Connecting Cables

Angled Female Connector Ø 8mm, Snap-In - Straight Male Connector M12 x 1

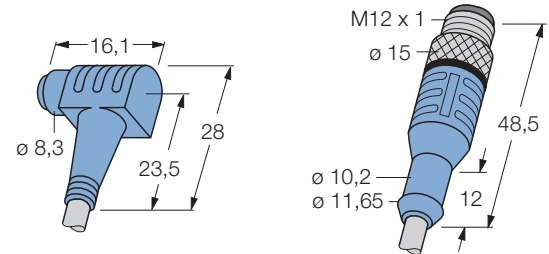


Connector female connector, Ø 8 mm, angled
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged/screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-0,3-WAS3/P00 8007801	...-0,6-... 8007805	...-1-... 8007790
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-0,3-WAS3/XOR 8007803	...-0,6-... 8007807	...-1-... 8007792
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-0,3-WAS3/S90 8007802	...-0,6-... 8007806	...-1-... 8007791
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-0,3-WAS3/S74 8007804	...-0,6-... 8007808	...-1-... 8023729
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	WKP3-0,3-WAS3/S366 8023880	...-0,6-... 8023881	...-1-... 8023882
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WKP3-0,3-WAS3/S77/S398 8023887	...-0,6-... 8023888	...-1-... 8023889
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		WKP3-1,5-WAS3/P00 8007809	...-2-... 8007793	...-5-... 8007797
		WKP3-1,5-WAS3/XOR 8007811	...-2-... 8007795	...-5-... 8007799
		WKP3-1,5-WAS3/S90 8007810	...-2-... 8007794	...-5-... 8007798
		WKP3-1,5-WAS3/S74 8007812	...-2-... 8007796	...-5-... 8007800
		WKP3-1,5-WAS3/S366 8023883	...-2-... 8023884	...-5-... 8023885
		WKP3-1,5-WAS3/S77/S398 8023890	...-2-... 8023891	...-5-... 8023892

Subject to change without notice Edition: 11.2008

Connecting Cables
Angled Female Connector Ø 8mm, Snap-In -
Straight Male Connector M12 x 1

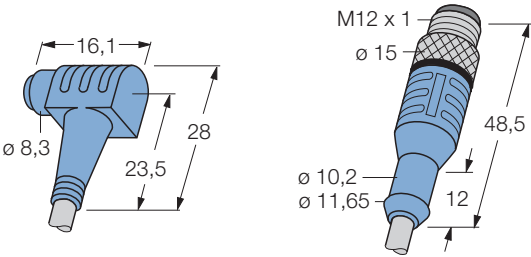


Connector female connector, Ø 8 mm, angled
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged/screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4-0,3-WAS4/P00 8007819	...-0,6-... 8007821	...-1-... 8007813
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	WKP4-0,3-WAS4/XOR 8009524	...-0,6-... 8009525	...-1-... 8009521
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4-0,3-WAS4/S90 8007820	...-0,6-... 8007822	...-1-... 8007814
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	WKP4-0,3-WAS4/S77/S366 8023894	...-0,6-... 8023895	...-1-... 8023896
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	WKP4-0,3-WAS4/S77/S398 8023901	...-0,6-... 8023902	...-1-... 8023903
4-pole 2 WH 3 BU 4 BK 1 BN		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4-1,5-WAS4/P00 8007823	...-2-... 8007815	...-5-... 8007817
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	WKP4-1,5-WAS4/XOR 8009526	...-2-... 8009522	...-5-... 8009523
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4-1,5-WAS4/S90 8007824	...-2-... 8007816	...-5-... 8007818
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	WKP4-1,5-WAS4/S77/S366 8023897	...-2-... 8023898	...-5-... 8023899
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	WKP4-1,5-WAS4/S77/S398 8023904	...-2-... 8023905	...-5-... 8023906

Connecting Cables

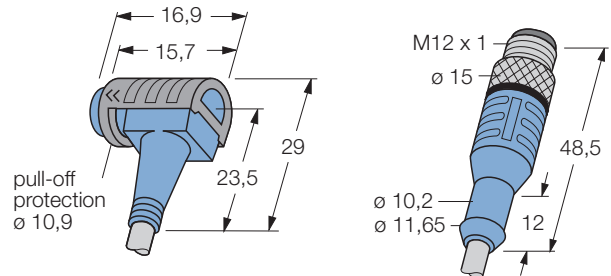
Angled Female Connector Ø 8 mm, Snap-In, with Locking-Ring - Straight Male Connector M12 x 1

Connector female connector, Ø 8 mm, angled
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated
Pull-off protection plastic, POM, black

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Degree of protection IP67, only in plugged/screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3-0,3-WAS3/P00 8007599	...-0,6-... 8007603	...-1-... 8007588
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3-0,3-WAS3/XOR 8007601	...-0,6-... 8007605	...-1-... 8007590
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3-0,3-WAS3/S90 8007600	...-0,6-... 8007604	...-1-... 8007589
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3-0,3-WAS3/S74 8007602	...-0,6-... 8007606	...-1-... 8007591
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	ZWKP3-0,3-WAS3/S366 8023908	...-0,6-... 8023909	...-1-... 8023910
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	ZWKP3-0,3-WAS3/S77/S398 8023915	...-0,6-... 8023916	...-1-... 8023917
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		ZWKP3-1,5-WAS3/P00 8007607	...-2-... 8007592	...-5-... 8007596
		ZWKP3-1,5-WAS3/XOR 8007609	...-2-... 8007594	...-5-... 8009476
		ZWKP3-1,5-WAS3/S90 8007608	...-2-... 8007593	...-5-... 8007597
		ZWKP3-1,5-WAS3/S74 8007610	...-2-... 8007595	...-5-... 8007598
		ZWKP3-1,5-WAS3/S366 8023911	...-2-... 8023912	...-5-... 8023913
		ZWKP3-1,5-WAS3/S77/S398 8023918	...-2-... 8023919	...-5-... 8023920

Connecting Cables
Angled Female Connector Ø 8mm, Snap-In,
with Locking-Ring - Straight Male Connector M12 x 1

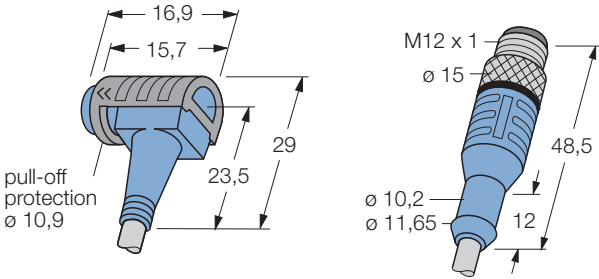


Connector female connector, Ø 8 mm, angled
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated
Pull-off protection plastic, POM, black

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Degree of protection IP67, only in plugged/screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4-0,3-WAS4/P00 8007617	...-0,6-... 8007619	...-1-... 8007611
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4-0,3-WAS4/XOR 8009480	...-0,6-... 8009481	...-1-... 8009477
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4-0,3-WAS4/S90 8007618	...-0,6-... 8007620	...-1-... 8007612
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	ZWKP4-0,3-WAS4/S77/S366 8023922	...-0,6-... 8023923	...-1-... 8023924
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	ZWKP4-0,3-WAS4/S77/S398 8023929	...-0,6-... 8023930	...-1-... 8023931
4-pole 2 WH 3 BU 4 BK 1 BN	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	Standard cable-length		
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	1,5 m	2 m	5 m
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4-1,5-WAS4/P00 8007621	...-2-... 8007613	...-5-... 8007615
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	ZWKP4-1,5-WAS4/XOR 8009482	...-2-... 8009478	...-5-... 8009479
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	ZWKP4-1,5-WAS4/S90 8007622	...-2-... 8007614	...-5-... 8007616
		ZWKP4-1,5-WAS4/S77/S366 8023925	...-2-... 8023926	...-5-... 8023927
		ZWKP4-1,5-WAS4/S77/S398 8023932	...-2-... 8023933	...-5-... 8023934

Connecting Cables

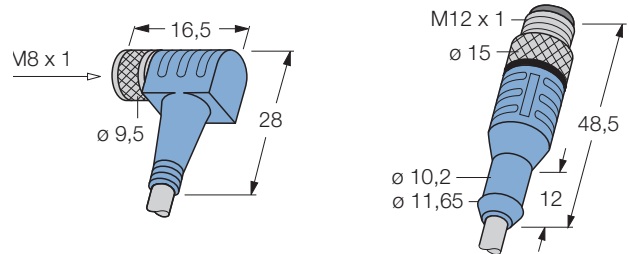
Angled Female Connector M8 x 1 - Straight Male Connector M12 x 1

Connector female connector, M8 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-0,3-WAS3/P00 8007493	...-0,6-... 8007497	...-1-... 8007481
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-0,3-WAS3/XOR 8007495	...-0,6-... 8007499	...-1-... 8007483
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-0,3-WAS3/S90 8007494	...-0,6-... 8007498	...-1-... 8007482
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-0,3-WAS3/S74 8007496	...-0,6-... 8007500	...-1-... 8007484
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWKP3-0,3-WAS3/S366 8023936	...-0,6-... 8023937	...-1-... 8023938
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWKP3-0,3-WAS3/S77/S398 8023943	...-0,6-... 8023944	...-1-... 8023945
	Standard cable-length			
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-1,5-WAS3/P00 8007501	...-2-... 8007485	...-5-... 8007489
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-1,5-WAS3/XOR 8007503	...-2-... 8007487	...-5-... 8007491
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-1,5-WAS3/S90 8007502	...-2-... 8007486	...-5-... 8007490
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-1,5-WAS3/S74 8007504	...-2-... 8007488	...-5-... 8007492
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWKP3-1,5-WAS3/S366 8023939	...-2-... 8023940	...-5-... 8023941
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWKP3-1,5-WAS3/S77/S398 8023946	...-2-... 8023947	...-5-... 8023948

Connecting Cables
Angled Female Connector M8 x 1 -
Straight Male Connector M12 x 1

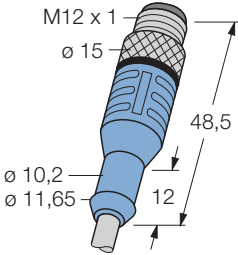
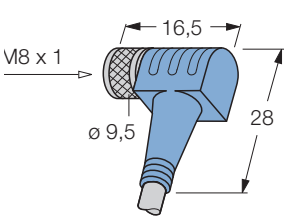


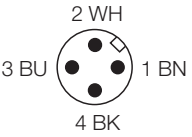
Connector female connector, M8 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4-0,3-WAS4/P00 8007510	...-0,6-... 8007512	...-1-... 8007505
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	SWKP4-0,3-WAS4/XOR 8009461	...-0,6-... 8009462	...-1-... 8009457
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4-0,3-WAS4/S90 8007511	...-0,6-... 8007513	...-1-... 8007506
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	SWKP4-0,3-WAS4/S77/S366 8023950	...-0,6-... 8023951	...-1-... 8023952
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	SWKP4-0,3-WAS4/S77/S398 8023957	...-0,6-... 8023958	...-1-... 8023959
4-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4-1,5-WAS4/P00 8007514	...-2-... 8007507	...-5-... 8007509
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	SWKP4-1,5-WAS4/XOR 8009463	...-2-... 8009458	...-5-... 8009460
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4-1,5-WAS4/S90 8007515	...-2-... 8007508	...-5-... 8009459
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	SWKP4-1,5-WAS4/S77/S366 8023953	...-2-... 8023954	...-5-... 8023955
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	SWKP4-1,5-WAS4/S77/S398 8023960	...-2-... 8023961	...-5-... 8023962

Connecting Cables

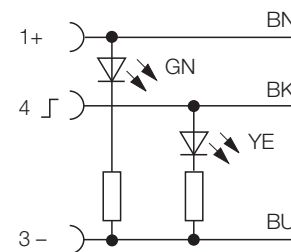
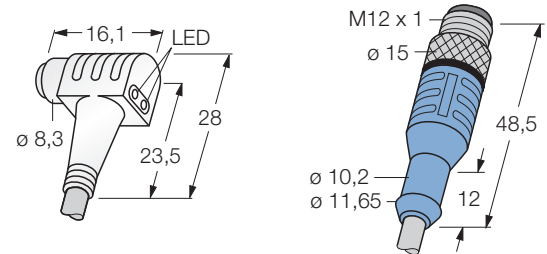
Angled Female Connector Ø 8mm, Snap-In, with LED - Straight Male Connector M12 x 1

Connector female connector, Ø 8 mm, angled
 Grip plastic, TPU, transparent
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage 10 ... 30 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3
 Operating voltage display LED green
 Display switch state LED yellow
 Switching function pnp

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in plugged/screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-0,3-WAS3/P00 8023748	...-0,6-... 8023749	...-1-... 8023750
	PVC, irradiated, OG 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-0,3-WAS3/XOR 8023757	...-0,6-... 8017552	...-1-... 8023758
	PUR/PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-0,3-WAS3/S90 8014006	...-0,6-... 8014007	...-1-... 8014008
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-0,3-WAS3/S74 8023763	...-0,6-... 8013441	...-1-... 8022012
	PUR, halogen-free, GY 3 x 0.25 mm² / Ø 4.5 mm	WKP3P2-0,3-WAS3/S366 8023967	...-0,6-... 8023968	...-1-... 8023969
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	WKP3P2-0,3-WAS3/S77/S398 8023974	...-0,6-... 8023975	...-1-... 8023976
	Standard cable-length			
3-pole 	PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-1,5-WAS3/P00 8023751	...-2-... 8023752	...-5-... 8023753
	PVC, irradiated, OG 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-1,5-WAS3/XOR 8023759	...-2-... 8023760	...-5-... 8023761
	PUR/PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-1,5-WAS3/S90 8014313	...-2-... 8015396	...-5-... 8023755
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-1,5-WAS3/S74 8022013	...-2-... 8015312	...-5-... 8023764
	PUR, halogen-free, GY 3 x 0.25 mm² / Ø 4.5 mm	WKP3P2-1,5-WAS3/S366 8023970	...-2-... 8023971	...-5-... 8023972
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	WKP3P2-1,5-WAS3/S77/S398 8023977	...-2-... 8023978	...-5-... 8023979

Connecting Cables
Angled Female Connector Ø 8mm, Snap-In,
with LED - Straight Male Connector M12 x 1

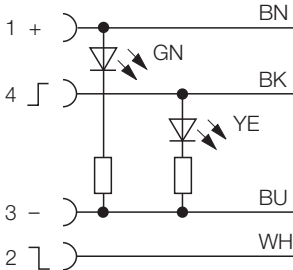
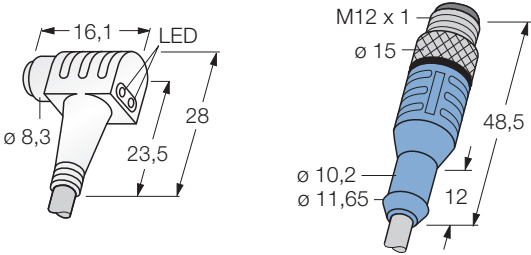


Connector female connector, Ø 8 mm, angled
Grip plastic, TPU, transparent
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged/screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	WKP4P2-0,3-WAS4/P00 8023981	...-0,6-... 8023982	...-1-... 8023983
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	WKP4P2-0,3-WAS4/XOR 8023992	...-0,6-... 8023993	...-1-... 8023994
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	WKP4P2-0,3-WAS4/S90 8023988	...-0,6-... 8023989	...-1-... 8015589
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WKP4P2-0,3-WAS4/S77/S366 8023999	...-0,6-... 8024000	...-1-... 8024001
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WKP4P2-0,3-WAS4/S77/S398 8024006	...-0,6-... 8024007	...-1-... 8024008
4-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	WKP4P2-1,5-WAS4/P00 8023984	...-2-... 8023985	...-5-... 8023986
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	WKP4P2-1,5-WAS4/XOR 8023995	...-2-... 8023996	...-5-... 8023997
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	WKP4P2-1,5-WAS4/S90 8022587	...-2-... 8017086	...-5-... 8023990
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	WKP4P2-1,5-WAS4/S77/S366 8024002	...-2-... 8024003	...-5-... 8024004
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	WKP4P2-1,5-WAS4/S77/S398 8024009	...-2-... 8024010	...-5-... 8024011

Connecting Cables

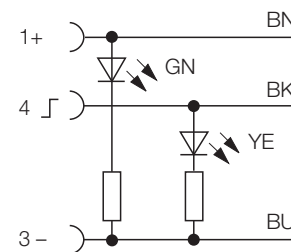
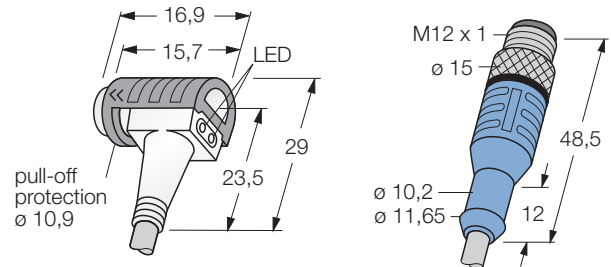
Angled Female Connector Ø 8mm, Snap-In, with Locking-Ring, with LED -

Straight Male Connector M12 x 1

Connector female connector, Ø 8 mm, angled
 Grip plastic, TPU, transparent
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated
 Pull-off protection plastic, POM, black

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3
 Operating voltage display LED green
 Display switch state LED yellow
 Switching function pnp
 Degree of protection IP67, only in plugged/screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 3-pole 	PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3P2-0,3-WAS3/P00 8011426	...-0,6-... 8011430	...-1-... 8011414
	PVC, irradiated, OG 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3P2-0,3-WAS3/XOR 8011428	...-0,6-... 8011432	...-1-... 8011416
	PUR/PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3P2-0,3-WAS3/S90 8011427	...-0,6-... 8011431	...-1-... 8011415
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3P2-0,3-WAS3/S74 8011429	...-0,6-... 8011433	...-1-... 8011417
	PUR, halogen-free, GY 3 x 0.25 mm² / Ø 4.5 mm	ZWKP3P2-0,3-WAS3/S366 8024013	...-0,6-... 8024014	...-1-... 8024015
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	ZWKP3P2-0,3-WAS3/S77/S398 8024020	...-0,6-... 8024021	...-1-... 8024022
	Standard cable-length			
	PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3P2-1,5-WAS3/P00 8011434	...-2-... 8011418	...-5-... 8011422
	PVC, irradiated, OG 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3P2-1,5-WAS3/XOR 8011436	...-2-... 8011420	...-5-... 8023768
	PUR/PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3P2-1,5-WAS3/S90 8011435	...-2-... 8011419	...-5-... 8011423
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3P2-1,5-WAS3/S74 8011437	...-2-... 8011421	...-5-... 8011425
	PUR, halogen-free, GY 3 x 0.25 mm² / Ø 4.5 mm	ZWKP3P2-1,5-WAS3/S366 8024016	...-2-... 8024017	...-5-... 8024018
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	ZWKP3P2-1,5-WAS3/S77/S398 8024023	...-2-... 8024024	...-5-... 8024025

Connecting Cables
Angled Female Connector Ø 8mm, Snap-In,
with Locking-Ring, with LED -
Straight Male Connector M12 x 1

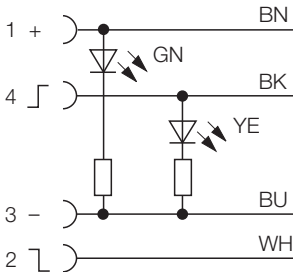
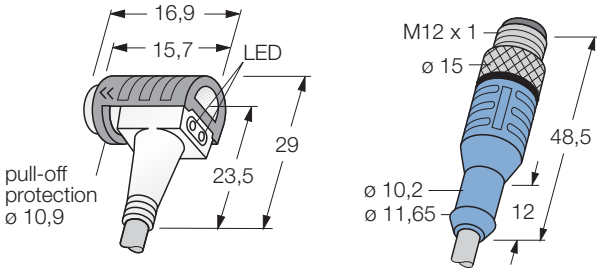


Connector female connector, Ø 8 mm, angled
Grip plastic, TPU, transparent
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated
Pull-off protection plastic, POM, black

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow
Switching function pnp

Degree of protection IP67, only in plugged/screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZWKP4P2-0,3-WAS4/P00 8025233	...-0,6-... 8025234	...-1-... 8025235
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	ZWKP4P2-0,3-WAS4/XOR 8025247	...-0,6-... 8025249	...-1-... 8025250
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZWKP4P2-0,3-WAS4/S90 8025240	...-0,6-... 8025241	...-1-... 8025242
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	ZWKP4P2-0,3-WAS4/S77/S366 8025255	...-0,6-... 8025256	...-1-... 8025257
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	ZWKP4P2-0,3-WAS4/S77/S398 8025262	...-0,6-... 8025263	...-1-... 8025264
	4-pole 	Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZWKP4P2-1,5-WAS4/P00 8025236	...-2-... 8025237	...-5-... 8025238
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	ZWKP4P2-1,5-WAS4/XOR 8025251	...-2-... 8025252	...-5-... 8025253
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZWKP4P2-1,5-WAS4/S90 8025243	...-2-... 8025244	...-5-... 8025245
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	ZWKP4P2-1,5-WAS4/S77/S366 8025258	...-2-... 8025259	...-5-... 8025260
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	ZWKP4P2-1,5-WAS4/S77/S398 8025265	...-2-... 8025266	...-5-... 8025267

Connecting Cables

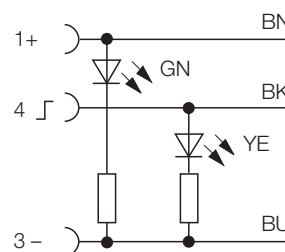
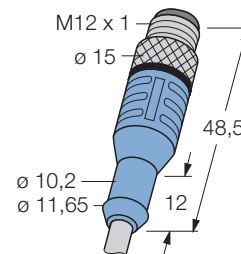
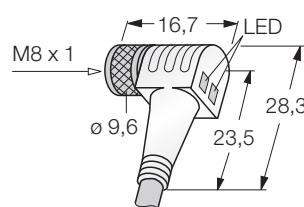
Angled Female Connector M8 x 1, with LED - Straight Male Connector M12 x 1

Connector female connector, M8 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ... 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-WAS3/P00 8023771	...-0,6-... 8011505	...-1-... 8011489
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-WAS3/XOR 8011503	...-0,6-... 8011506	...-1-... 8011490
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-WAS3/S90 8011502	...-0,6-... 8009491	...-1-... 8009490
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-WAS3/S74 8011504	...-0,6-... 8011507	...-1-... 8011491
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWKP3P2-0,3-WAS3/S366 8024027	...-0,6-... 8024028	...-1-... 8024029
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWKP3P2-0,3-WAS3/S77/S398 8024034	...-0,6-... 8024035	...-1-... 8024036
	Standard cable-length			
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-WAS3/P00 8011508	...-2-... 8011492	...-5-... 8011497
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-WAS3/XOR 8011509	...-2-... 8011494	...-5-... 8011499
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-WAS3/S90 8009492	...-2-... 8011493	...-5-... 8011498
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-WAS3/S74 8011510	...-2-... 8011495	...-5-... 8011500
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWKP3P2-1,5-WAS3/S366 8024030	...-2-... 8024031	...-5-... 8024032
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWKP3P2-1,5-WAS3/S77/S398 8024037	...-2-... 8024038	...-5-... 8024039

Connecting Cables
Angled Female Connector M8 x 1, with LED -
Straight Male Connector M12 x 1

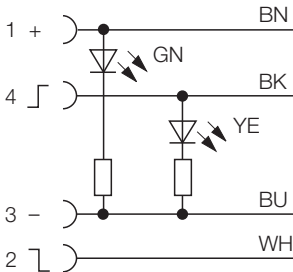
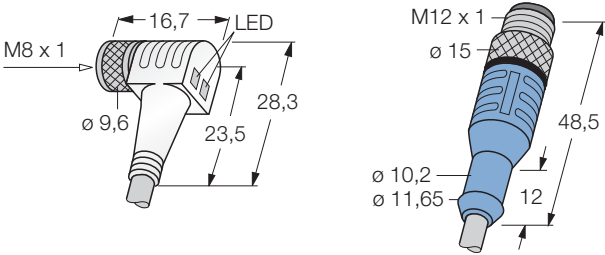


Connector female connector, M8 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 m\Omega$
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-0,3-WAS4/P00 8011521	...-0,6-... 8011524	...-1-... 8011512
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-0,3-WAS4/XOR 8011523	...-0,6-... 8011526	...-1-... 8011514
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-0,3-WAS4/S90 8011522	...-0,6-... 8011525	...-1-... 8011513
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	SWKP4P2-0,3-WAS4/S77/S366 8024041	...-0,6-... 8024042	...-1-... 8024043
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	SWKP4P2-0,3-WAS4/S77/S398 8024048	...-0,6-... 8024049	...-1-... 8024050
	4-pole 	Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-1,5-WAS4/P00 8011527	...-2-... 8011515	...-5-... 8011518
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-1,5-WAS4/XOR 8011529	...-2-... 8011517	...-5-... 8011520
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-1,5-WAS4/S90 8011528	...-2-... 8011516	...-5-... 8011519
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	SWKP4P2-1,5-WAS4/S77/S366 8024044	...-2-... 8024045	...-5-... 8024046
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	SWKP4P2-1,5-WAS4/S77/S398 8024051	...-2-... 8024052	...-5-... 8024053

Connecting Cables

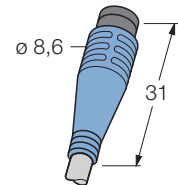
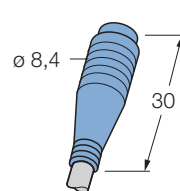
Straight Female Connector Ø 8mm, Snap-In - Straight Male Connector Ø 8mm, Snap-In

Connector female connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Connector male connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	KP3-0,3-SP3/P00 8022470	...-0,6-... 8022471	...-1-... 8022472
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	KP3-0,3-SP3/XOR 8022476	...-0,6-... 8022477	...-1-... 8022478
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	KP3-0,3-SP3/S90 8009701	...-0,6-... 8009702	...-1-... 8009695
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	KP3-0,3-SP3/S74 8022482	...-0,6-... 8022483	...-1-... 8022484
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	KP3-0,3-SP3/S366 8022488	...-0,6-... 8022489	...-1-... 8022490
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	KP3-0,3-SP3/S77/S398 8024056	...-0,6-... 8024057	...-1-... 8024058
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		KP3-1,5-SP3/P00 8022473	...-2-... 8009696	...-5-... 8009700
		KP3-1,5-SP3/XOR 8022479	...-2-... 8009698	...-5-... 8022480
		KP3-1,5-SP3/S90 8009703	...-2-... 8009697	...-5-... 8021129
		KP3-1,5-SP3/S74 8022485	...-2-... 8009699	...-5-... 8022486
		KP3-1,5-SP3/S366 8022491	...-2-... 8022492	...-5-... 8022493
		KP3-1,5-SP3/S77/S398 8024059	...-2-... 8024060	...-5-... 8024061

Connecting Cables
Straight Female Connector Ø 8mm, Snap-In -
Straight Male Connector Ø 8mm, Snap-In

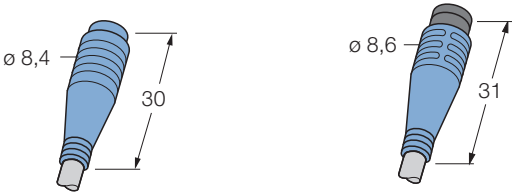


Connector female connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Connector male connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	KP4-0,3-SP4/P00 8022502	...-0,6-... 8022503	...-1-... 8017150
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	KP4-0,3-SP4/XOR 8022515	...-0,6-... 8022516	...-1-... 8022517
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	KP4-0,3-SP4/S90 8022508	...-0,6-... 8022509	...-1-... 8022510
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	KP4-0,3-SP4/S77/S366 8024063	...-0,6-... 8024064	...-1-... 8024065
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	KP4-0,3-SP4/S77/S398 8024070	...-0,6-... 8024071	...-1-... 8024072
4-pole 2 WH 4 BK 1 BN 3 BU		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	KP4-1,5-SP4/P00 8022504	...-2-... 8017264	...-5-... 8022505
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	KP4-1,5-SP4/XOR 8022518	...-2-... 8022519	...-5-... 8022520
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	KP4-1,5-SP4/S90 8022511	...-2-... 8022512	...-5-... 8022513
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	KP4-1,5-SP4/S77/S366 8024066	...-2-... 8024067	...-5-... 8024068
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	KP4-1,5-SP4/S77/S398 8024073	...-2-... 8024074	...-5-... 8024075

Connecting Cables

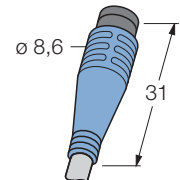
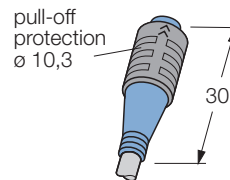
Straight Female Connector Ø 8mm, Snap-In, with Locking-Ring - Straight Male Connector Ø 8mm, Snap-In

Connector female connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated
Pull-off protection plastic, POM, black

Connector male connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-0,3-SP3/P00 8022536	...-0,6-... 8022537	...-1-... 8022538
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-0,3-SP3/XOR 8022545	...-0,6-... 8022546	...-1-... 8022547
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-0,3-SP3/S90 8022542	...-0,6-... 8022543	...-1-... 8008692
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-0,3-SP3/S74 8022551	...-0,6-... 8022552	...-1-... 8022553
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	ZKP3-0,3-SP3/S366 8022557	...-0,6-... 8022558	...-1-... 8022559
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	ZKP3-0,3-SP3/S77/S398 8024077	...-0,6-... 8024078	...-1-... 8024079
3-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-1,5-SP3/P00 8022539	...-2-... 8013992	...-5-... 8022540
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-1,5-SP3/XOR 8022548	...-2-... 8009506	...-5-... 8022549
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-1,5-SP3/S90 8009508	...-2-... 8009505	...-5-... 8021228
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZKP3-1,5-SP3/S74 8022554	...-2-... 8009507	...-5-... 8022555
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	ZKP3-1,5-SP3/S366 8022560	...-2-... 8022561	...-5-... 8022562
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	ZKP3-1,5-SP3/S77/S398 8024080	...-2-... 8024081	...-5-... 8024082

Connecting Cables
Straight Female Connector Ø 8mm, Snap-In,
with Locking-Ring -
Straight Male Connector Ø 8mm, Snap-In

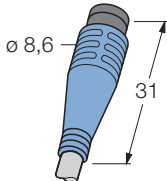
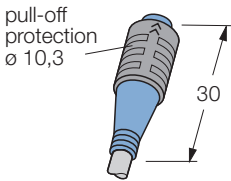


Connector female connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated
Pull-off protection plastic, POM, black

Connector male connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZKP4-0,3-SP4/P00 8013411	...-0,6-... 8022633	...-1-... 8022634
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	ZKP4-0,3-SP4/XOR 8022646	...-0,6-... 8022647	...-1-... 8022648
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZKP4-0,3-SP4/S90 8022639	...-0,6-... 8022640	...-1-... 8022641
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	ZKP4-0,3-SP4/S77/S366 8024084	...-0,6-... 8024085	...-1-... 8024086
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	ZKP4-0,3-SP4/S77/S398 8024091	...-0,6-... 8024092	...-1-... 8024093
	4-pole 2 WH 4 BK 1 BN 3 BU 	Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZKP4-1,5-SP4/P00 8022635	...-2-... 8022636	...-5-... 8022637
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	ZKP4-1,5-SP4/XOR 8022649	...-2-... 8022650	...-5-... 8022651
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	ZKP4-1,5-SP4/S90 8022642	...-2-... 8022643	...-5-... 8022644
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	ZKP4-1,5-SP4/S77/S366 8024087	...-2-... 8024088	...-5-... 8024089
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	ZKP4-1,5-SP4/S77/S398 8024094	...-2-... 8024095	...-5-... 8024096

Subject to change without notice Edition: 11.2008

Connecting Cables

Straight Female Connector M8 x 1 -

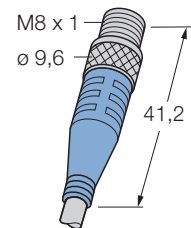
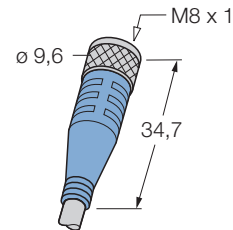
Straight Male Connector M8 x 1

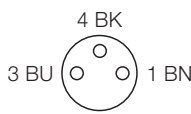
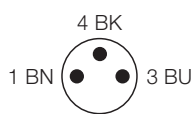
Connector female connector, M8 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M8 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-0,3-SSP3/P00 8008687	...-0,6-... 8008688	...-1-... 8008682
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-0,3-SSP3/XOR 8022743	...-0,6-... 8022744	...-1-... 8022745
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-0,3-SSP3/S90 8009496	...-0,6-... 8008689	...-1-... 8008683
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SKP3-0,3-SSP3/S74 8020258	...-0,6-... 8020259	...-1-... 8017853
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SKP3-0,3-SSP3/S366 8022779	...-0,6-... 8022780	...-1-... 8022781
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SKP3-0,3-SSP3/S77/S398 8024119	...-0,6-... 8024120	...-1-... 8024121
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		SKP3-1,5-SSP3/P00 8016400	...-2-... 8008684	...-5-... 8022742
		SKP3-1,5-SSP3/XOR 8022746	...-2-... 8009494	...-5-... 8022747
		SKP3-1,5-SSP3/S90 8008690	...-2-... 8008685	...-5-... 8008686
		SKP3-1,5-SSP3/S74 8020260	...-2-... 8009495	...-5-... 8022749
		SKP3-1,5-SSP3/S366 8022782	...-2-... 8022783	...-5-... 8022784
		SKP3-1,5-SSP3/S77/S398 8024122	...-2-... 8024123	...-5-... 8024124

Connecting Cables

Straight Female Connector M8 x 1 -
Straight Male Connector M8 x 1

Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

Seal

female connector, M8 x 1, straight

plastic, TPU, blue

metal, CuZn, nickel-plated

plastic, TPU, black

metal, CuZn, gold-plated

plastic, FPM/FKM

Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

male connector, M8 x 1, straight

plastic, TPU, blue

metal, CuZn, nickel-plated

plastic, TPU, black

metal, CuZn, gold-plated

Rated voltage

Ampacity

Insulation resistance

Forward resistance

Pollution degree

max. 30 V

4 A

$\geq 10^9 \Omega$

$\leq 5 \text{ m}\Omega$

3

Ambient temperature Connector

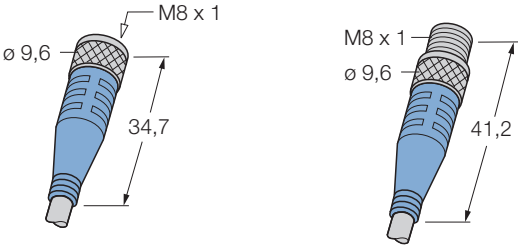
Degree of protection

Mechanical lifespan

-30 ... +90 °C

IP67, only in screwed status

min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SKP4-0,3-SSP4/P00 8017452	...-0,6-... 8022751	...-1-... 8017614
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	SKP4-0,3-SSP4/XOR 8022755	...-0,6-... 8022756	...-1-... 8022757
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SKP4-0,3-SSP4/S90 8022573	...-0,6-... 8018728	...-1-... 8018729
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	SKP4-0,3-SSP4/S77/S366 8024126	...-0,6-... 8024127	...-1-... 8024128
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	SKP4-0,3-SSP4/S77/S398 8024133	...-0,6-... 8024134	...-1-... 8024135
4-pole 2 WH 4 BK 1 BN 3 BU		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SKP4-1,5-SSP4/P00 8017613	...-2-... 8009498	...-5-... 8019844
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	SKP4-1,5-SSP4/XOR 8022758	...-2-... 8009499	...-5-... 8022759
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SKP4-1,5-SSP4/S90 8022753	...-2-... 8014303	...-5-... 8009500
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	SKP4-1,5-SSP4/S77/S366 8024129	...-2-... 8024130	...-5-... 8024131
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	SKP4-1,5-SSP4/S77/S398 8024136	...-2-... 8024137	...-5-... 8024138

Connecting Cables

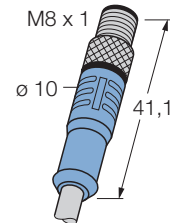
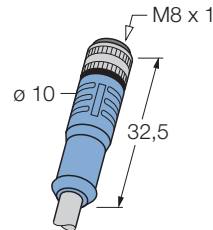
Straight Female Connector M8x1, Shielded - Straight Male Connector M8x1, Shielded

Connector female connector, M8 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M8 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, shielded, GY 3 x 0.25 mm ² / Ø 4.4 mm	SKPS3-0,3-SSPS3/P00 8028335	...-0,6-... 8028336	...-1-... 8028337
	PUR, shielded, halogen-free, GY 3 x 0.25 mm ² / Ø 4.6 mm	SKPS3-0,3-SSPS3/S366 8028341	...-0,6-... 8028342	...-1-... 8028343
3-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 3 x 0.25 mm ² / Ø 4.4 mm	SKPS3-1,5-SSPS3/P00 8028338	...-2-... 8027206	...-5-... 8028339
	PUR, shielded, halogen-free, GY 3 x 0.25 mm ² / Ø 4.6 mm	SKPS3-1,5-SSPS3/S366 8028344	...-2-... 8028345	...-5-... 8028346

Connecting Cables
Straight Female Connector M8x1, Shielded -
Straight Male Connector M8x1, Shielded

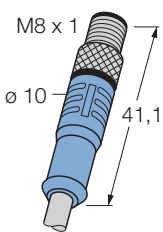
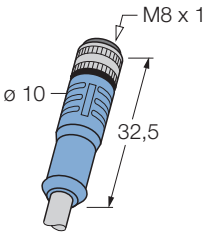


Connector female connector, M8 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M8 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, shielded, GY 4 x0.25 mm ² / Ø 5.2 mm	SKPS4-0,3-SSPS4/P00 8028348	...-0,6-... 8028349	...-1-... 8028350
	PUR, shielded, halogen-free, GY 4 x0.25 mm ² / Ø 5.2 mm	SKPS4-0,3-SSPS4/S366 8028354	...-0,6-... 8028355	...-1-... 8028356
4-pole 2 WH 4 BK 1 BN 3 BU		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 4 x0.25 mm ² / Ø 5.2 mm	SKPS4-1,5-SSPS4/P00 8028351	...-2-... 8027207	...-5-... 8027352
	PUR, shielded, halogen-free, GY 4 x0.25 mm ² / Ø 5.2 mm	SKPS4-1,5-SSPS4/S366 8028357	...-2-... 8028358	...-5-... 8028359

Connecting Cables

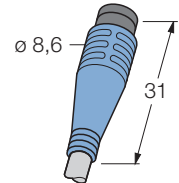
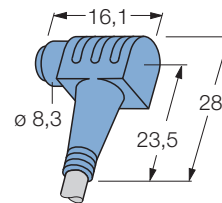
Angled Female Connector Ø 8mm, Snap-In - Straight Male Connector Ø 8mm, Snap-In

Connector female connector, Ø 8 mm, angled
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Connector male connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-0,3-SP3/P00 8022667	...-0,6-... 8022668	...-1-... 8022669
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-0,3-SP3/XOR 8022680	...-0,6-... 8022681	...-1-... 8022682
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-0,3-SP3/S90 8017477	...-0,6-... 8022674	...-1-... 8022675
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	WKP3-0,3-SP3/S74 8022687	...-0,6-... 8022688	...-1-... 8022689
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	WKP3-0,3-SP3/S366 8022720	...-0,6-... 8022721	...-1-... 8022722
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	WKP3-0,3-SP3/S77/S398 8024098	...-0,6-... 8024099	...-1-... 8024100
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		WKP3-1,5-SP3/P00 8022670	...-2-... 8022671	...-5-... 8022672
		WKP3-1,5-SP3/XOR 8022683	...-2-... 8022684	...-5-... 8022685
		WKP3-1,5-SP3/S90 8022676	...-2-... 8022677	...-5-... 8022678
		WKP3-1,5-SP3/S74 8022690	...-2-... 8022691	...-5-... 8022692
		WKP3-1,5-SP3/S366 8022723	...-2-... 8022724	...-5-... 8022725
		WKP3-1,5-SP3/S77/S398 8024101	...-2-... 8024102	...-5-... 8024103

Connecting Cables
Angled Female Connector Ø 8mm, Snap-In -
Straight Male Connector Ø 8mm, Snap-In

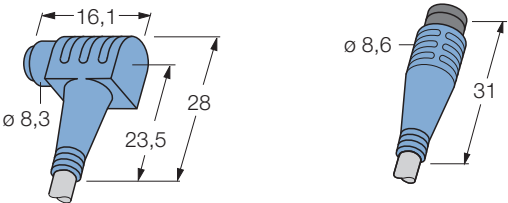


Connector female connector, Ø 8 mm, angled
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Connector male connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in plugged status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4-0,3-SP4/P00 8023638	...-0,6-... 8023639	...-1-... 8023640
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	WKP4-0,3-SP4/XOR 8023652	...-0,6-... 8023653	...-1-... 8023654
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4-0,3-SP4/S90 8023645	...-0,6-... 8023646	...-1-... 8023647
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	WKP4-0,3-SP4/S77/S366 8024105	...-0,6-... 8024106	...-1-... 8024107
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	WKP4-0,3-SP4/S77/S398 8024112	...-0,6-... 8024113	...-1-... 8024114
4-pole 2 WH 4 BK 1 BN 3 BU		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4-1,5-SP4/P00 8023641	...-2-... 8023642	...-5-... 8023643
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	WKP4-1,5-SP4/XOR 8023655	...-2-... 8023656	...-5-... 8023657
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4-1,5-SP4/S90 8023648	...-2-... 8023649	...-5-... 8023650
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	WKP4-1,5-SP4/S77/S366 8024108	...-2-... 8024109	...-5-... 8024110
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	WKP4-1,5-SP4/S77/S398 8024115	...-2-... 8024116	...-5-... 8024117

Connecting Cables

Angled Female Connector Ø 8mm, Snap-In, with Locking-Ring -

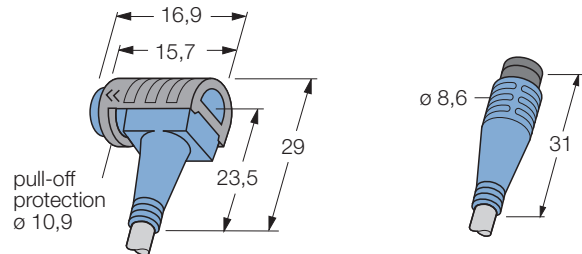
Straight Male Connector Ø 8mm, Snap-In

Connector female connector, Ø 8 mm, angled
 Grip plastic, TPU, blue
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated
 Pull-off protection plastic, POM, black

Connector male connector, Ø 8 mm, straight
 Grip plastic, TPU, blue
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Degree of protection IP67, only in plugged status
 Mechanical lifespan min. 100 contact durability

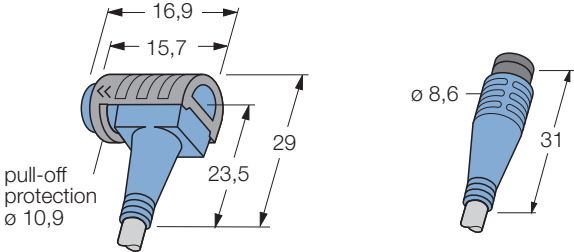


		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3-0,3-SP3/P00 8024328	...-0,6-... 8024329	...-1-... 8024330
	PVC, irradiated, OG 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3-0,3-SP3/XOR 8025308	...-0,6-... 8025309	...-1-... 8025310
	PUR/PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3-0,3-SP3/S90 8025301	...-0,6-... 8025302	...-1-... 8025303
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm² / Ø 4.4 mm	ZWKP3-0,3-SP3/S74 8025315	...-0,6-... 8025316	...-1-... 8025317
	PUR, halogen-free, GY 3 x 0.25 mm² / Ø 4.5 mm	ZWKP3-0,3-SP3/S366 8025322	...-0,6-... 8025323	...-1-... 8025324
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	ZWKP3-0,3-SP3/S77/S398 8025329	...-0,6-... 8025330	...-1-... 8025331
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		ZWKP3-1,5-SP3/P00 8024331	...-2-... 8024332	...-5-... 8024333
		ZWKP3-1,5-SP3/XOR 8025311	...-2-... 8025312	...-5-... 8025313
		ZWKP3-1,5-SP3/S90 8025304	...-2-... 8025305	...-5-... 8025306
		ZWKP3-1,5-SP3/S74 8025318	...-2-... 8025319	...-5-... 8025320
		ZWKP3-1,5-SP3/S366 8025325	...-2-... 8025326	...-5-... 8025327
		ZWKP3-1,5-SP3/S77/S398 8025332	...-2-... 8025333	...-5-... 8025334

Connecting Cables
Angled Female Connector Ø 8mm, Snap-In,
with Locking-Ring -
Straight Male Connector Ø 8mm, Snap-In



Connector	female connector, Ø 8 mm, angled
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Pull-off protection	plastic, POM, black
Connector	male connector, Ø 8 mm, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	max. 30 V
Ampacity	4 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4-0,3-SP4/P00 8025336	...-0,6-... 8025337	...-1-... 8025338
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4-0,3-SP4/XOR 8025350	...-0,6-... 8025351	...-1-... 8025352
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4-0,3-SP4/S90 8025343	...-0,6-... 8025344	...-1-... 8025345
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	ZWKP4-0,3-SP4/S77/S366 8025357	...-0,6-... 8025358	...-1-... 8025359
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	ZWKP4-0,3-SP4/S77/S398 8025364	...-0,6-... 8025365	...-1-... 8025366
4-pole 2 WH 4 BK 1 BN 3 BU		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4-1,5-SP4/P00 8025339	...-2-... 8025340	...-5-... 8025341
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4-1,5-SP4/XOR 8025353	...-2-... 8025354	...-5-... 8025355
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4-1,5-SP4/S90 8025346	...-2-... 8025347	...-5-... 8025348
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	ZWKP4-1,5-SP4/S77/S366 8025360	...-2-... 8025361	...-5-... 8025362
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	ZWKP4-1,5-SP4/S77/S398 8025367	...-2-... 8025368	...-5-... 8025369

Connecting Cables

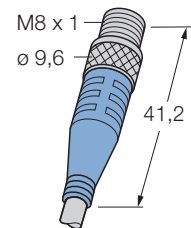
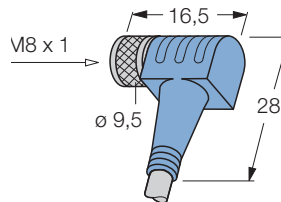
Angled Female Connector M8x1 - Straight Male Connector M8 x 1

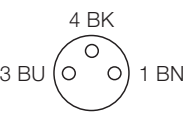
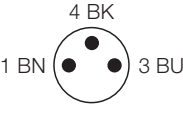
Connector female connector, M8 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M8 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-0,3-SSP3/P00 8009503	...-0,6-... 8010763	...-1-... 8010760
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-0,3-SSP3/XOR 8023083	...-0,6-... 8023084	...-1-... 8023085
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-0,3-SSP3/S90 8015453	...-0,6-... 8014132	...-1-... 8015408
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3-0,3-SSP3/S74 8020367	...-0,6-... 8023089	...-1-... 8023090
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWKP3-0,3-SSP3/S366 8023094	...-0,6-... 8023095	...-1-... 8023096
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWKP3-0,3-SSP3/S77/S398 8024140	...-0,6-... 8024141	...-1-... 8024142
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		SWKP3-1,5-SSP3/P00 8020084	...-2-... 8016175	...-5-... 8023080
		SWKP3-1,5-SSP3/XOR 8023086	...-2-... 8010761	...-5-... 8023087
		SWKP3-1,5-SSP3/S90 8016217	...-2-... 8015456	...-5-... 8015459
		SWKP3-1,5-SSP3/S74 8023091	...-2-... 8010762	...-5-... 8023092
		SWKP3-1,5-SSP3/S366 8023097	...-2-... 8023098	...-5-... 8023099
		SWKP3-1,5-SSP3/S77/S398 8024143	...-2-... 8024144	...-5-... 8024145

Connecting Cables
Angled Female Connector M8x1 -
Straight Male Connector M8 x 1

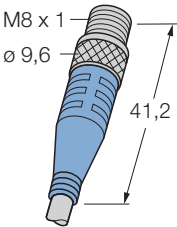
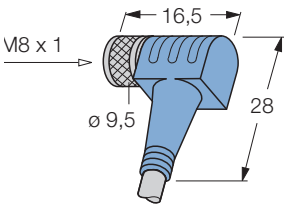


Connector female connector, M8 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M8 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
Wire-construction				
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SWKP4-0,3-SSP4/P00 8023674	...-0,6-... 8023675	...-1-... 8023676
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	SWKP4-0,3-SSP4/XOR 8023688	...-0,6-... 8023689	...-1-... 8023690
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SWKP4-0,3-SSP4/S90 8023681	...-0,6-... 8023682	...-1-... 8023683
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	SWKP4-0,3-SSP4/S77/S366 8024147	...-0,6-... 8024148	...-1-... 8024149
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	SWKP4-0,3-SSP4/S77/S398 8024154	...-0,6-... 8024155	...-1-... 8024156
4-pole 2 WH 4 BK 1 BN 3 BU		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SWKP4-1,5-SSP4/P00 8023677	...-2-... 8023678	...-5-... 8023679
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	SWKP4-1,5-SSP4/XOR 8023691	...-2-... 8023692	...-5-... 8023693
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SWKP4-1,5-SSP4/S90 8023684	...-2-... 8023685	...-5-... 8023686
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	SWKP4-1,5-SSP4/S77/S366 8024150	...-2-... 8024151	...-5-... 8024152
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	SWKP4-1,5-SSP4/S77/S398 8024157	...-2-... 8024158	...-5-... 8024159

Connecting Cables

Angled Female Connector Ø 8mm, Snap-In, with LED -

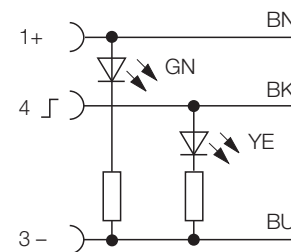
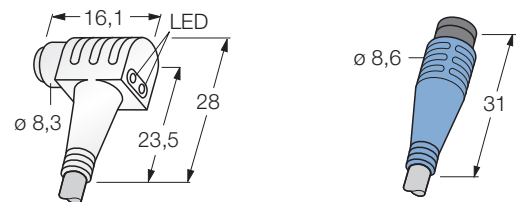
Straight Male Connector Ø 8mm, Snap-In

Connector female connector, Ø 8 mm, angled
 Grip plastic, TPU, transparent
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated

Connector male connector, Ø 8 mm, straight
 Grip plastic, TPU, blue
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3
 Operating voltage display LED green
 Display switch state LED yellow
 Switching function pnp

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in plugged status
 Mechanical lifespan min. 100 contact durability

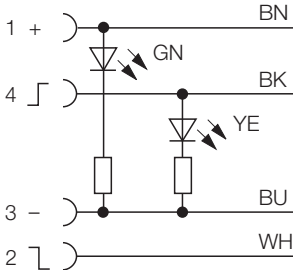
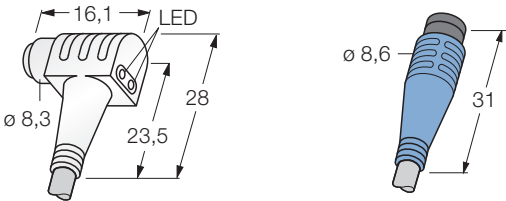


		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-0,3-SP3/P00 8025371	...-0,6-... 8025372	...-1-... 8025373
	PVC, irradiated, OG 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-0,3-SP3/XOR 8025385	...-0,6-... 8025386	...-1-... 8025387
	PUR/PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-0,3-SP3/S90 8025378	...-0,6-... 8025379	...-1-... 8025380
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-0,3-SP3/S74 8025392	...-0,6-... 8025393	...-1-... 8025394
	PUR, halogen-free, GY 3 x 0.25 mm² / Ø 4.5 mm	WKP3P2-0,3-SP3/S366 8025399	...-0,6-... 8025400	...-1-... 8025401
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	WKP3P2-0,3-SP3/S77/S398 8025406	...-0,6-... 8025407	...-1-... 8025408
	Standard cable-length			
3-pole 	PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-1,5-SP3/P00 8025374	...-2-... 8025375	...-5-... 8025376
	PVC, irradiated, OG 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-1,5-SP3/XOR 8025388	...-2-... 8025389	...-5-... 8025390
	PUR/PVC, GY 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-1,5-SP3/S90 8025381	...-2-... 8025382	...-5-... 8025383
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm² / Ø 4.4 mm	WKP3P2-1,5-SP3/S74 8025395	...-2-... 8025396	...-5-... 8025397
	PUR, halogen-free, GY 3 x 0.25 mm² / Ø 4.5 mm	WKP3P2-1,5-SP3/S366 8025402	...-2-... 8025403	...-5-... 8025404
	PUR, irradiated, OG 3 x 0.34 mm² / Ø 4.4 mm	WKP3P2-1,5-SP3/S77/S398 8025409	...-2-... 8025410	...-5-... 8025411

Connecting Cables
Angled Female Connector Ø 8mm, Snap-In,
with LED -
Straight Male Connector Ø 8mm, Snap-In



Connector	female connector, Ø 8 mm, angled
Grip	plastic, TPU, transparent
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Connector	male connector, Ø 8 mm, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4P2-0,3-SP4/P00 8025413	...-0,6-... 8025414	...-1-... 8025415
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	WKP4P2-0,3-SP4/XOR 8025427	...-0,6-... 8025428	...-1-... 8025429
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4P2-0,3-SP4/S90 8025420	...-0,6-... 8025421	...-1-... 8025422
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	WKP4P2-0,3-SP4/S77/S366 8025434	...-0,6-... 8025435	...-1-... 8025436
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	WKP4P2-0,3-SP4/S77/S398 8025441	...-0,6-... 8025442	...-1-... 8025443
4-pole 2 WH 4 BK 1 BN 3 BU		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4P2-1,5-SP4/P00 8025416	...-2-... 8025417	...-5-... 8025418
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	WKP4P2-1,5-SP4/XOR 8025430	...-2-... 8025431	...-5-... 8025432
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	WKP4P2-1,5-SP4/S90 8025423	...-2-... 8025424	...-5-... 8025425
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	WKP4P2-1,5-SP4/S77/S366 8025437	...-2-... 8025438	...-5-... 8025439
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	WKP4P2-1,5-SP4/S77/S398 8025444	...-2-... 8025445	...-5-... 8025446

Connecting Cables

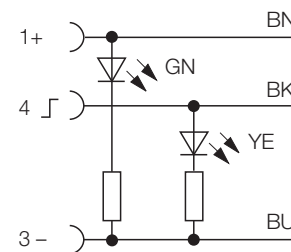
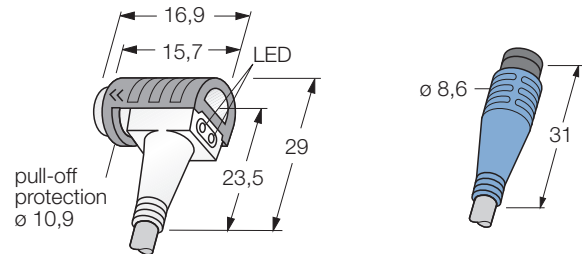
Angled Female Connector Ø 8mm, Snap-In, with Locking-Ring, with LED - Straight Male Connector Ø 8mm, Snap-In

Connector female connector, Ø 8 mm, angled
Grip plastic, TPU, transparent
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated
Pull-off protection plastic, POM, black

Connector male connector, Ø 8 mm, straight
Grip plastic, TPU, blue
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow
Switching function pnp

Degree of protection IP67, only in plugged status
Mechanical lifespan min. 100 contact durability

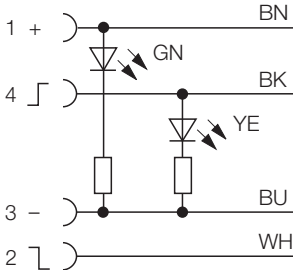
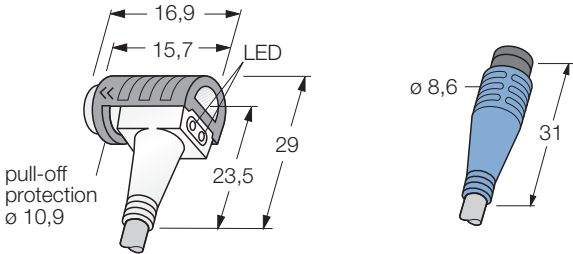


		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3P2-0,3-SP3/P00 8025448	...-0,6-... 8025449	...-1-... 8025450
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3P2-0,3-SP3/XOR 8025464	...-0,6-... 8025465	...-1-... 8025466
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3P2-0,3-SP3/S90 8025455	...-0,6-... 8025456	...-1-... 8025457
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3P2-0,3-SP3/S74 8025471	...-0,6-... 8025472	...-1-... 8025473
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	ZWKP3P2-0,3-SP3/S366 8025596	...-0,6-... 8025597	...-1-... 8025598
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	ZWKP3P2-0,3-SP3/S77/S398 8025603	...-0,6-... 8025604	...-1-... 8025605
3-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3P2-1,5-SP3/P00 8025451	...-2-... 8025452	...-5-... 8025453
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3P2-1,5-SP3/XOR 8025467	...-2-... 8025468	...-5-... 8025469
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3P2-1,5-SP3/S90 8025458	...-2-... 8025459	...-5-... 8025460
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	ZWKP3P2-1,5-SP3/S74 8025474	...-2-... 8025475	...-5-... 8025476
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	ZWKP3P2-1,5-SP3/S366 8025599	...-2-... 8025600	...-5-... 8025601
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	ZWKP3P2-1,5-SP3/S77/S398 8025606	...-2-... 8025607	...-5-... 8025608

Connecting Cables
Angled Female Connector Ø 8mm, Snap-In,
with Locking-Ring, with LED -
Straight Male Connector Ø 8mm, Snap-In



Connector	female connector, Ø 8 mm, angled
Grip	plastic, TPU, transparent
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Pull-off protection	plastic, POM, black
Connector	male connector, Ø 8 mm, straight
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4P2-0,3-SP4/P00 8025478	...-0,6-... 8025479	...-1-... 8025480
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4P2-0,3-SP4/XOR 8025486	...-0,6-... 8025487	...-1-... 8025488
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4P2-0,3-SP4/S90 8025610	...-0,6-... 8025611	...-1-... 8025613
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	ZWKP4P2-0,3-SP4/S77/S366 8025493	...-0,6-... 8025494	...-1-... 8025495
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	ZWKP4P2-0,3-SP4/S77/S398 8025500	...-0,6-... 8025501	...-1-... 8025502
4-pole 2 WH 4 BK 1 BN 3 BU		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4P2-1,5-SP4/P00 8025481	...-2-... 8025482	...-5-... 8025483
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4P2-1,5-SP4/XOR 8025489	...-2-... 8025490	...-5-... 8025491
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	ZWKP4P2-1,5-SP4/S90 8025614	...-2-... 8025615	...-5-... 8025616
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	ZWKP4P2-1,5-SP4/S77/S366 8025496	...-2-... 8025497	...-5-... 8025498
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	ZWKP4P2-1,5-SP4/S77/S398 8025503	...-2-... 8025504	...-5-... 8025505

Connecting Cables

Angled Female Connector M8x1, with LED - Straight Male Connector M8x1

Connector female connector, M8 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M8 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ... 30 V

Ampacity 4 A

Insulation resistance $\geq 10^9 \Omega$

Forward resistance $\leq 5 \text{ m}\Omega$

Pollution degree 3

Operating voltage display LED green

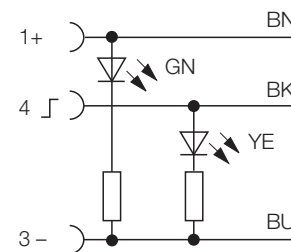
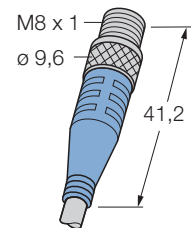
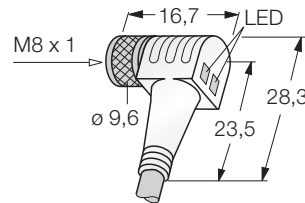
Display switch state LED yellow

Switching function pnp

Ambient temperature Connector -30 ... +90 °C

Degree of protection IP67, only in screwed status

Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-SSP3/P00 8023107	...-0,6-... 8023108	...-1-... 8023109
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-SSP3/XOR 8016145	...-0,6-... 8016115	...-1-... 8012311
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-SSP3/S90 8012313	...-0,6-... 8012314	...-1-... 8012310
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-SSP3/S74 8023120	...-0,6-... 8023121	...-1-... 8023122
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWKP3P2-0,3-SSP3/S366 8023325	...-0,6-... 8023326	...-1-... 8023327
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWKP3P2-0,3-SSP3/S77/S398 8024161	...-0,6-... 8024162	...-1-... 8024163
		Standard cable-length		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-SSP3/P00 8023110	...-2-... 8023111	...-5-... 8023112
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-SSP3/XOR 8023116	...-2-... 8023117	...-5-... 8023118
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-SSP3/S90 8012315	...-2-... 8012312	...-5-... 8023114
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-SSP3/S74 8023123	...-2-... 8023124	...-5-... 8023125
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWKP3P2-1,5-SSP3/S366 8023328	...-2-... 8023329	...-5-... 8023330
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWKP3P2-1,5-SSP3/S77/S398 8024164	...-2-... 8024165	...-5-... 8024166

Connecting Cables
Angled Female Connector M8x1, with LED -
Straight Male Connector M8x1

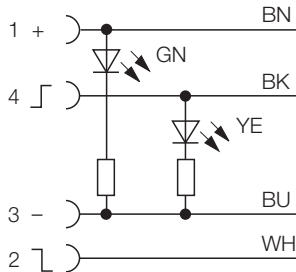
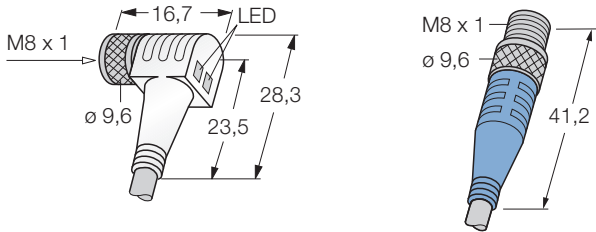


Connector female connector, M8 x 1, angled
Grip plastic, TPU, transparent
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M8 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V
Ampacity 2 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3
Operating voltage display LED green
Display switch state LED yellow
Switching function pnp

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SWKP4P2-0,3-SSP4/P00 8025507	...-0,6-... 8025508	...-1-... 8025509
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	SWKP4P2-0,3-SSP4/XOR 8025522	...-0,6-... 8025523	...-1-... 8025524
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SWKP4P2-0,3-SSP4/S90 8025515	...-0,6-... 8025516	...-1-... 8025517
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	SWKP4P2-0,3-SSP4/S77/S366 8025529	...-0,6-... 8025530	...-1-... 8025531
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	SWKP4P2-0,3-SSP4/S77/S398 8025537	...-0,6-... 8025538	...-1-... 8025539
4-pole 2 WH 4 BK 1 BN 3 BU		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SWKP4P2-1,5-SSP4/P00 8025510	...-2-... 8025512	...-5-... 8025513
	PVC, irradiated, OG 4 x0.25 mm ² / Ø 4.4 mm	SWKP4P2-1,5-SSP4/XOR 8025525	...-2-... 8025526	...-5-... 8025527
	PUR/PVC, GY 4 x0.25 mm ² / Ø 4.4 mm	SWKP4P2-1,5-SSP4/S90 8025518	...-2-... 8025519	...-5-... 8025520
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 4.7 mm	SWKP4P2-1,5-SSP4/S77/S366 8025533	...-2-... 8025534	...-5-... 8025535
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.8 mm	SWKP4P2-1,5-SSP4/S77/S398 8025540	...-2-... 8025541	...-5-... 8025542

Connecting Cables

Angled Female Connector M8x1 -

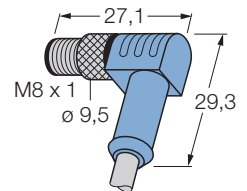
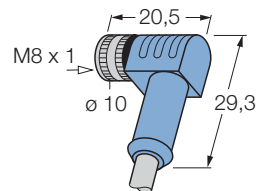
Angled Male Connector M8x1

Connector female connector, M8 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M8 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 60 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 Contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, shielded, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKPS3-0,3-SWSPS3/P00 8028361	...-0,6-... 8028362	...-1-... 8028363
	PUR, shielded, halogen-free, GY 3 x 0.25 mm ² / Ø 4.6 mm	SWKPS3-0,3-SWSPS3/S366 8028367	...-0,6-... 8028368	...-1-... 8028369
3-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKPS3-1,5-SWSPS3/P00 8028364	...-2-... 8027208	...-5-... 8028365
	PUR, shielded, halogen-free, GY 3 x 0.25 mm ² / Ø 4.6 mm	SWKPS3-1,5-SWSPS3/S366 8028370	...-2-... 8028371	...-5-... 8028372

Connecting Cables
Angled Female Connector M8x1 -
Angled Male Connector M8x1

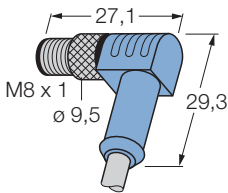
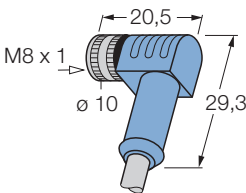


Connector female connector, M8 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated
Seal plastic, FPM/FKM

Connector male connector, M8 x 1, angled
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 30 V
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status
Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 4 BK 2 WH 3 BU 1 BN	PVC, shielded, GY 4 x0.25 mm² / Ø 5.2 mm	SWKPS4-0,3-SWSPS4/P00 8028374	...-0,6-... 8028375	...-1-... 8028376
	PUR, shielded, halogen-free, GY 4 x0.25 mm² / Ø 5.2 mm	SWKPS4-0,3-SWSPS4/S366 8028380	...-0,6-... 8028381	...-1-... 8028382
4-pole 2 WH 4 BK 1 BN 3 BU		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, shielded, GY 4 x0.25 mm² / Ø 5.2 mm	SWKPS4-1,5-SWSPS4/P00 8028377	...-2-... 8027209	...-5-... 8028378
	PUR, shielded, halogen-free, GY 4 x0.25 mm² / Ø 5.2 mm	SWKPS4-1,5-SWSPS4/S366 8028383	...-2-... 8028384	...-5-... 8028385

Connecting Cables

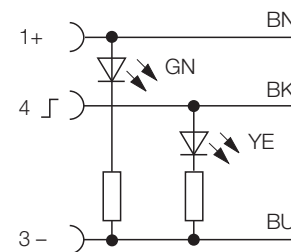
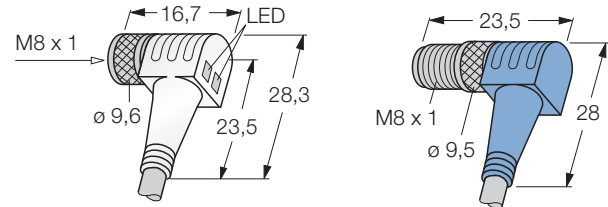
Angled Female Connector M8x1, with LED - Angled Male Connector M8 x 1

Connector female connector, M8 x 1, angled
 Grip plastic, TPU, transparent
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated
 Seal plastic, FPM/FKM

Connector male connector, M8 x 1, angled
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage 10 ... 30 V
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3
 Operating voltage display LED green
 Display switch state LED yellow
 Switching function pnp

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status
 Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-SWSP3/P00 8023127	...-0,6-... 8023128	...-1-... 8023129
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-SWSP3/XOR 8023141	...-0,6-... 8023142	...-1-... 8023143
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-SWSP3/S90 8023134	...-0,6-... 8023135	...-1-... 8023136
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-0,3-SWSP3/S74 8023146	...-0,6-... 8023147	...-1-... 8023148
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWKP3P2-0,3-SWSP3/S366 8023339	...-0,6-... 8023340	...-1-... 8023341
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWKP3P2-0,3-SWSP3/S77/S398 8024169	...-0,6-... 8024170	...-1-... 8024171
		Standard cable-length		
3-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-SWSP3/P00 8023130	...-2-... 8023131	...-5-... 8023132
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-SWSP3/XOR 8023144	...-2-... 8014418	...-5-... 8014420
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-SWSP3/S90 8023137	...-2-... 8023138	...-5-... 8023139
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	SWKP3P2-1,5-SWSP3/S74 8023149	...-2-... 8023150	...-5-... 8023151
	PUR, halogen-free, GY 3 x 0.25 mm ² / Ø 4.5 mm	SWKP3P2-1,5-SWSP3/S366 8023342	...-2-... 8023343	...-5-... 8023344
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	SWKP3P2-1,5-SWSP3/S77/S398 8024172	...-2-... 8024173	...-5-... 8024174

Connecting Cables

Angled Female Connector M8x1, with LED -

Angled Male Connector M8 x 1



Connector female connector, M8 x 1, angled

Grip plastic, TPU, transparent

Coupling nut/screw metal, CuZn, nickel-plated

Contact carriers plastic, TPU, black

Contacts metal, CuZn, gold-plated

Seal plastic, FPM/FKM

Connector male connector, M8 x 1, angled

Grip plastic, TPU, blue

Coupling nut/screw metal, CuZn, nickel-plated

Contact carriers plastic, TPU, black

Contacts metal, CuZn, gold-plated

Rated voltage 10 ...30 V

Ampacity 2 A

Insulation resistance $\geq 10^9 \Omega$

Forward resistance $\leq 5 \text{ m}\Omega$

Pollution degree 3

Operating voltage display LED green

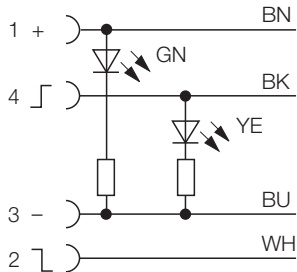
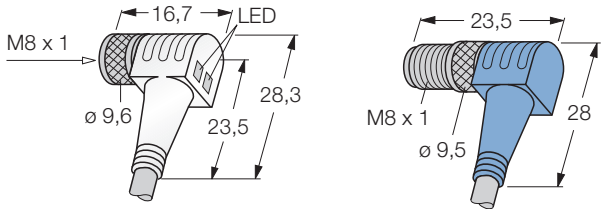
Display switch state LED yellow

Switching function pnp

Ambient temperature Connector -30 ... +90 °C

Degree of protection IP67, only in screwed status

Mechanical lifespan min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-0,3-SWSP4/P00 8025544	...-0,6-... 8025545	...-1-... 8025546
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-0,3-SWSP4/XOR 8025558	...-0,6-... 8025559	...-1-... 8025560
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-0,3-SWSP4/S90 8025551	...-0,6-... 8025552	...-1-... 8025553
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	SWKP4P2-0,3-SWSP4/S77/S366 8025621	...-0,6-... 8025622	...-1-... 8025623
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	SWKP4P2-0,3-SWSP4/S77/S398 8025565	...-0,6-... 8025566	...-1-... 8025567
4-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-1,5-SWSP4/P00 8025547	...-2-... 8025548	...-5-... 8025549
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-1,5-SWSP4/XOR 8025561	...-2-... 8025562	...-5-... 8025563
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	SWKP4P2-1,5-SWSP4/S90 8025554	...-2-... 8025555	...-5-... 8025556
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.7 mm	SWKP4P2-1,5-SWSP4/S77/S366 8025624	...-2-... 8025625	...-5-... 8025626
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	SWKP4P2-1,5-SWSP4/S77/S398 8025568	...-2-... 8025569	...-5-... 8025570

Connecting Cables

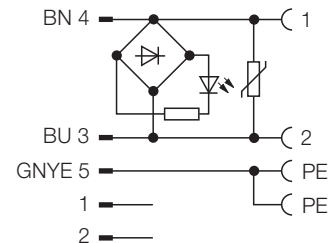
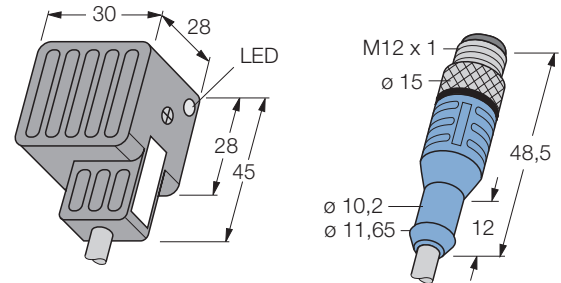
Valve-Connector Type A, with Protection-Circuit, Ground Contacts Parallel Wired, Integral Sealing - Straight Male Connector M12 x 1

Connector valve connector, construction type A,
straight
Grip plastic, TPU, black
Contact carriers plastic, PA 6 GF, black
Fiber-optic sensor plastic, PC transparent
Contacts metal, CuSn, silver-plated
Seal plastic, TPU, moulded
Coupling nut/screw metal, CuZn, nickel-plated

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 48 VAC/DC
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 m\Omega$
Pollution degree 3
Display switch state LED yellow
Protective component Varistor

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground, ground contacts parallel wired 	PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VAS22-2.048-0,3-WAS5.31/P00 8009081	...-0,6-... 8008526	...-1-... 8014298
	PVC, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VAS22-2.048-0,3-WAS5.31/XOR 8006623	...-0,6-... 8006626	...-1-... 8006615
	PUR/PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VAS22-2.048-0,3-WAS5.31/S90 8006622	...-0,6-... 8006625	...-1-... 8006614
	PUR, halogen-free, highly flexible, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VAS22-2.048-0,3-WAS5.31/S74 8006624	...-0,6-... 8006627	...-1-... 8006616
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VAS22-2.048-0,3-WAS5.31/S366 8025876	...-0,6-... 8025877	...-1-... 8025878
	PUR, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VAS22-2.048-0,3-WAS5.31/S398 8025956	...-0,6-... 8025957	...-1-... 8018054
2-pole + ground 	PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	Standard cable-length		
	PVC, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	1,5 m	2 m	5 m
	PUR/PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VAS22-2.048-1,5-WAS5.31/P00 8025872	...-2-... 8018500	...-5-... 8025873
	PUR, halogen-free, highly flexible, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VAS22-2.048-1,5-WAS5.31/XOR 8006629	...-2-... 8006618	...-5-... 8006621
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VAS22-2.048-1,5-WAS5.31/S90 8006628	...-2-... 8006617	...-5-... 8006620
	PUR, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VAS22-2.048-1,5-WAS5.31/S74 8006630	...-2-... 8006619	...-5-... 8020255
	PUR, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VAS22-2.048-1,5-WAS5.31/S366 8025879	...-2-... 8025880	...-5-... 8025881
	PUR, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VAS22-2.048-1,5-WAS5.31/S398 8016269	...-2-... 8025958	...-5-... 8025959

Connecting Cables

Valve-Connector Type A, Pressure Switch, Integral Sealing - Straight Male Connector M12 x 1

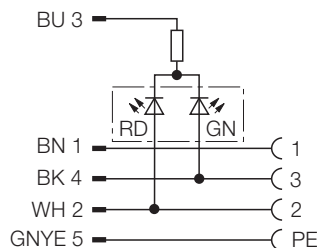
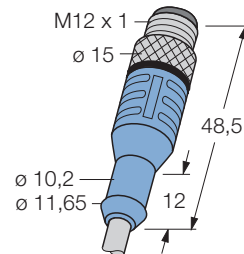
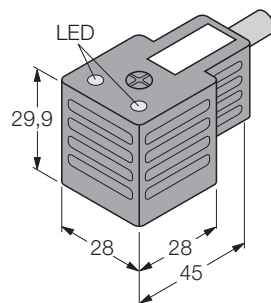


Connector valve connector, construction type A, straight
 Grip plastic, TPU, black
 Contact carriers plastic, PA 6 GF, black
 Fiber-optic sensor plastic, PC transparent
 Contacts metal, CuZn, silver-plated
 Seal plastic, TPU, moulded
 Coupling nut/screw metal, CuZn, nickel-plated

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 48 VDC
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3
 Display switch state LED red/green

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole + ground 	PVC, GY 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.2 mm	VASD41-4.048-0,3-WAS5/P00 8010169	...-0,6-... 8010175	...-1-... 8010149
	PVC, irradiated, OG 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.5 mm	VASD41-4.048-0,3-WAS5/XOR 8010171	...-0,6-... 8010177	...-1-... 8010151
	PUR/PVC, GY 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.7 mm	VASD41-4.048-0,3-WAS5/S90 8010170	...-0,6-... 8010176	...-1-... 8010150
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.3 mm	VASD41-4.048-0,3-WAS5/S74 8010174	...-0,6-... 8010180	...-1-... 8010154
	PUR, halogen-free, GY 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.7 mm	VASD41-4.048-0,3-WAS5/S366 8026019	...-0,6-... 8026020	...-1-... 8026021
	PUR, irradiated, OG 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.3 mm	VASD41-4.048-0,3-WAS5/S398 8025962	...-0,6-... 8019453	...-1-... 8017543
		Standard cable-length		
4-pole + ground 	PVC, GY 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.2 mm	1,5 m	2 m	5 m
	PVC, irradiated, OG 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.5 mm	VASD41-4.048-1,5-WAS5/P00 8010181	...-2-... 8010155	...-5-... 8010164
	PUR/PVC, GY 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.7 mm	VASD41-4.048-1,5-WAS5/XOR 8010183	...-2-... 8010157	...-5-... 8010166
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.3 mm	VASD41-4.048-1,5-WAS5/S90 8010182	...-2-... 8010156	...-5-... 8010165
	PUR, halogen-free, GY 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.7 mm	VASD41-4.048-1,5-WAS5/S74 8010186	...-2-... 8010163	...-5-... 8010168
	PUR, irradiated, OG 4 x0.34 mm ² / 1 x0.5 mm ² / Ø 5.3 mm	VASD41-4.048-1,5-WAS5/S366 8026022	...-2-... 8026023	...-5-... 8026024
		VASD41-4.048-1,5-WAS5/S398 8025963	...-2-... 8018907	...-5-... 8025964

Connecting Cables

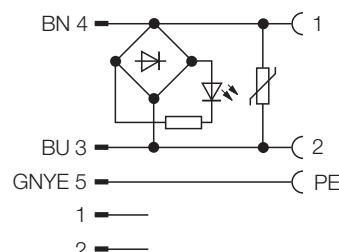
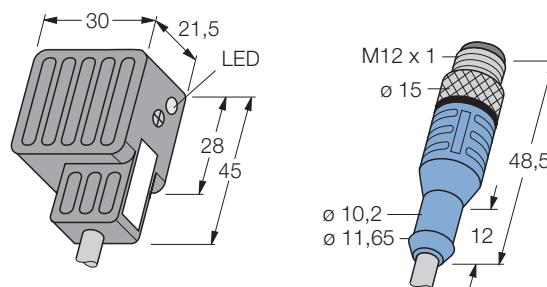
Valve-Connector Type B, PE 0 Degree, with Protection-Circuit, Integral Sealing - Straight Male Connector M12 x 1

Connector valve connector, construction type B, straight
 Grip plastic, TPU, black
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, silver-plated
 Seal plastic, TPU, moulded
 Coupling nut/screw metal, CuZn, nickel-plated

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 48 VAC/DC
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3
 Display switch state LED yellow
 Protective component Varistor

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VBS21-2.048-0,3-WAS5.31/P00 8007670	...-0,6-... 8007674	...-1-... 8007658
	PVC, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VBS21-2.048-0,3-WAS5.31/XOR 8007672	...-0,6-... 8007676	...-1-... 8007660
	PUR/PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VBS21-2.048-0,3-WAS5.31/S90 8007671	...-0,6-... 8007675	...-1-... 8007659
	PUR, halogen-free, highly flexible, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VBS21-2.048-0,3-WAS5.31/S74 8007673	...-0,6-... 8007677	...-1-... 8007661
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VBS21-2.048-0,3-WAS5.31/S366 8025888	...-0,6-... 8025889	...-1-... 8025890
	PUR, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.3 mm	VBS21-2.048-0,3-WAS5.31/S398 8016285	...-0,6-... 8016286	...-1-... 8018551
2-pole + ground 	PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	Standard cable-length		
	PVC, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	1,5 m	2 m	5 m
	PUR/PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VBS21-2.048-1,5-WAS5.31/P00 8007678	...-2-... 8007662	...-5-... 8007666
	PUR, halogen-free, highly flexible, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VBS21-2.048-1,5-WAS5.31/XOR 8007680	...-2-... 8007664	...-5-... 8007668
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VBS21-2.048-1,5-WAS5.31/S90 8007679	...-2-... 8007663	...-5-... 8007667
	PUR, irradiated, OG 4 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.3 mm	VBS21-2.048-1,5-WAS5.31/S398 8025966	...-2-... 8025967	...-5-... 8025968

Connecting Cables

Valve-Connector Type B, PE 180 Degree, with Protection-Circuit, Integral Sealing - Straight Male Connector M12 x 1

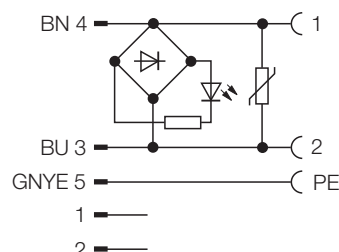
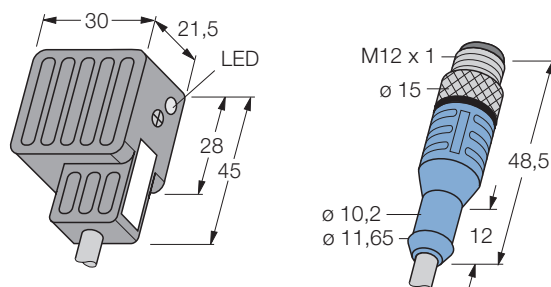


Connector valve connector, construction type B, straight
 Grip plastic, TPU, black
 Contact carriers plastic, PA 6 GF, black
 Contacts metal, CuZn, silver-plated
 Seal plastic, TPU, moulded
 Coupling nut/screw metal, CuZn, nickel-plated

Connector male connector, M12 x 1, straight
 Grip plastic, TPU, blue
 Coupling nut/screw metal, CuZn, nickel-plated
 Contact carriers plastic, TPU, black
 Contacts metal, CuZn, gold-plated

Rated voltage max. 48 VAC/DC
 Ampacity 4 A
 Insulation resistance $\geq 10^9 \Omega$
 Forward resistance $\leq 5 \text{ m}\Omega$
 Pollution degree 3
 Display switch state LED yellow
 Protective component Varistor

Ambient temperature Connector -30 ... +90 °C
 Degree of protection IP67, only in screwed status



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 2-pole + ground 	PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TBS21-2.048-0,3-WAS5.31/P00 8025895	...-0,6-... 8025896	...-1-... 8025897
	PVC, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TBS21-2.048-0,3-WAS5.31/XOR 8025907	...-0,6-... 8015498	...-1-... 8015247
	PUR/PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TBS21-2.048-0,3-WAS5.31/S90 8025902	...-0,6-... 8018489	...-1-... 8025903
	PUR, halogen-free, highly flexible, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TBS21-2.048-0,3-WAS5.31/S74 8025911	...-0,6-... 8025912	...-1-... 8025913
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TBS21-2.048-0,3-WAS5.31/S366 8025918	...-0,6-... 8025919	...-1-... 8025920
	PUR, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TBS21-2.048-0,3-WAS5.31/S398 8025970	...-0,6-... 8025971	...-1-... 8025972
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TBS21-2.048-1,5-WAS5.31/P00 8025898	...-2-... 8025899	...-5-... 8025900
	PVC, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TBS21-2.048-1,5-WAS5.31/XOR 8025908	...-2-... 8018819	...-5-... 8025909
	PUR/PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TBS21-2.048-1,5-WAS5.31/S90 8025904	...-2-... 8013419	...-5-... 8025905
	PUR, halogen-free, highly flexible, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TBS21-2.048-1,5-WAS5.31/S74 8025914	...-2-... 8025915	...-5-... 8025916
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TBS21-2.048-1,5-WAS5.31/S366 8025921	...-2-... 8025922	...-5-... 8025923
	PUR, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TBS21-2.048-1,5-WAS5.31/S398 8025973	...-2-... 8025974	...-5-... 8025975

Connecting Cables

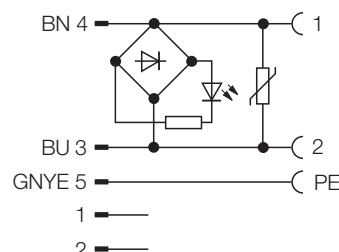
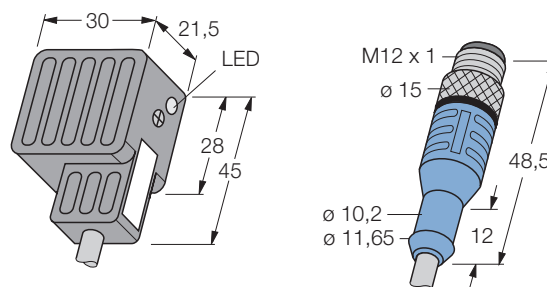
Valve-Connector Type I, PE 0 Degree, with Protection-Circuit, Integral Sealing - Straight Male Connector M12 x 1

Connector valve connector, construction type I,
straight
Grip plastic, TPU, black
Contact carriers plastic, PA 6 GF, black
Contacts metal, CuZn, silver-plated
Seal plastic, TPU, moulded
Coupling nut/screw metal, CuZn, nickel-plated

Connector male connector, M12 x 1, straight
Grip plastic, TPU, blue
Coupling nut/screw metal, CuZn, nickel-plated
Contact carriers plastic, TPU, black
Contacts metal, CuZn, gold-plated

Rated voltage max. 48 VAC/DC
Ampacity 4 A
Insulation resistance $\geq 10^9 \Omega$
Forward resistance $\leq 5 \text{ m}\Omega$
Pollution degree 3
Display switch state LED yellow
Protective component Varistor

Ambient temperature Connector -30 ... +90 °C
Degree of protection IP67, only in screwed status

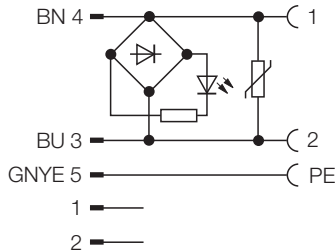
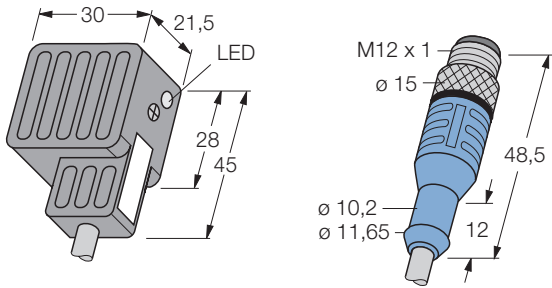


		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VIS21-2.048-0,3-WAS5.31/P00 8007718	...-0,6-... 8007722	...-1-... 8007706
	PVC, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VIS21-2.048-0,3-WAS5.31/X0R 8007720	...-0,6-... 8007724	...-1-... 8007708
	PUR/PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VIS21-2.048-0,3-WAS5.31/S90 8007719	...-0,6-... 8007723	...-1-... 8007707
	PUR, halogen-free, highly flexible, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VIS21-2.048-0,3-WAS5.31/S74 8007721	...-0,6-... 8007725	...-1-... 8007709
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VIS21-2.048-0,3-WAS5.31/S366 8025927	...-0,6-... 8025928	...-1-... 8025929
	PUR, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VIS21-2.048-0,3-WAS5.31/S398 8025977	...-0,6-... 8020141	...-1-... 8025978
	Standard cable-length 1,5 m 2 m 5 m			
	PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VIS21-2.048-1,5-WAS5.31/P00 8007726	...-2-... 8007710	...-5-... 8007714
	PVC, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VIS21-2.048-1,5-WAS5.31/XOR 8007728	...-2-... 8007712	...-5-... 8007716
	PUR/PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VIS21-2.048-1,5-WAS5.31/S90 8007727	...-2-... 8007711	...-5-... 8007715
2-pole + ground 	PUR, halogen-free, highly flexible, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VIS21-2.048-1,5-WAS5.31/S74 8007729	...-2-... 8007713	...-5-... 8007717
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	VIS21-2.048-1,5-WAS5.31/S366 8025930	...-2-... 8025931	...-5-... 8025932
	PUR, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	VIS21-2.048-1,5-WAS5.31/S398 8019029	...-2-... 8025979	...-5-... 8013280

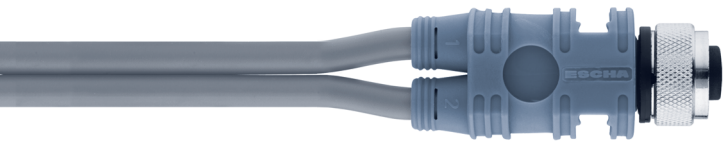
Connecting Cables
Valve-Connector Type I, PE 180 Degree,
with Protection-Circuit, Integral Sealing -
Straight Male Connector M12 x 1



Connector	valve connector, construction type I, straight
Grip	plastic, TPU, black
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, silver-plated
Seal	plastic, TPU, moulded
Coupling nut/screw	metal, CuZn, nickel-plated
Connector	male connector, M12 x 1, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Rated voltage	max. 48 VAC/DC
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature Connector	-30 ... +90 °C
Degree of protection	IP67, only in screwed status



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
2-pole + ground 	PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TIS21-2.048-0,3-WAS5.31/P00 8025981	...-0,6-... 8025982	...-1-... 8025983
	PVC, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TIS21-2.048-0,3-WAS5.31/XOR 8025995	...-0,6-... 8015591	...-1-... 8009970
	PUR/PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TIS21-2.048-0,3-WAS5.31/S90 8025988	...-0,6-... 8025989	...-1-... 8025990
	PUR, halogen-free, highly flexible, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TIS21-2.048-0,3-WAS5.31/S74 8025998	...-0,6-... 8025999	...-1-... 8026000
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TIS21-2.048-0,3-WAS5.31/S366 8026005	...-0,6-... 8026006	...-1-... 8026007
	PUR, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TIS21-2.048-0,3-WAS5.31/S398 8026012	...-0,6-... 8026013	...-1-... 8026014
		Standard cable-length		
2-pole + ground 		1,5 m	2 m	5 m
	PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TIS21-2.048-1,5-WAS5.31/P00 8025984	...-2-... 8025985	...-5-... 8025986
	PVC, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TIS21-2.048-1,5-WAS5.31/XOR 8015510	...-2-... 8020942	...-5-... 8025996
	PUR/PVC, GY 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TIS21-2.048-1,5-WAS5.31/S90 8025991	...-2-... 8025992	...-5-... 8025993
	PUR, halogen-free, highly flexible, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TIS21-2.048-1,5-WAS5.31/S74 8026001	...-2-... 8026002	...-5-... 8026003
	PUR, halogen-free, GY 2 x 0.75 mm ² / 1 x 0.75 mm ² / Ø 6.2 mm	TIS21-2.048-1,5-WAS5.31/S366 8026008	...-2-... 8026009	...-5-... 8026010
	PUR, irradiated, OG 2 x 0.34 mm ² / 1 x 0.5 mm ² / Ø 5.2 mm	TIS21-2.048-1,5-WAS5.31/S398 8026015	...-2-... 8026016	...-5-... 8026017



With dual junctions the distribution or collection of signals is no longer a problem. You can choose from a wide range of dual junctions of the M12x1 and M8x1 series and connector and/or cable versions.

Dust- and waterproof
according to IEC 60529

IP67

2-way Junction-Box-Systems

Y-splitter without cable	12.1 – 12.10

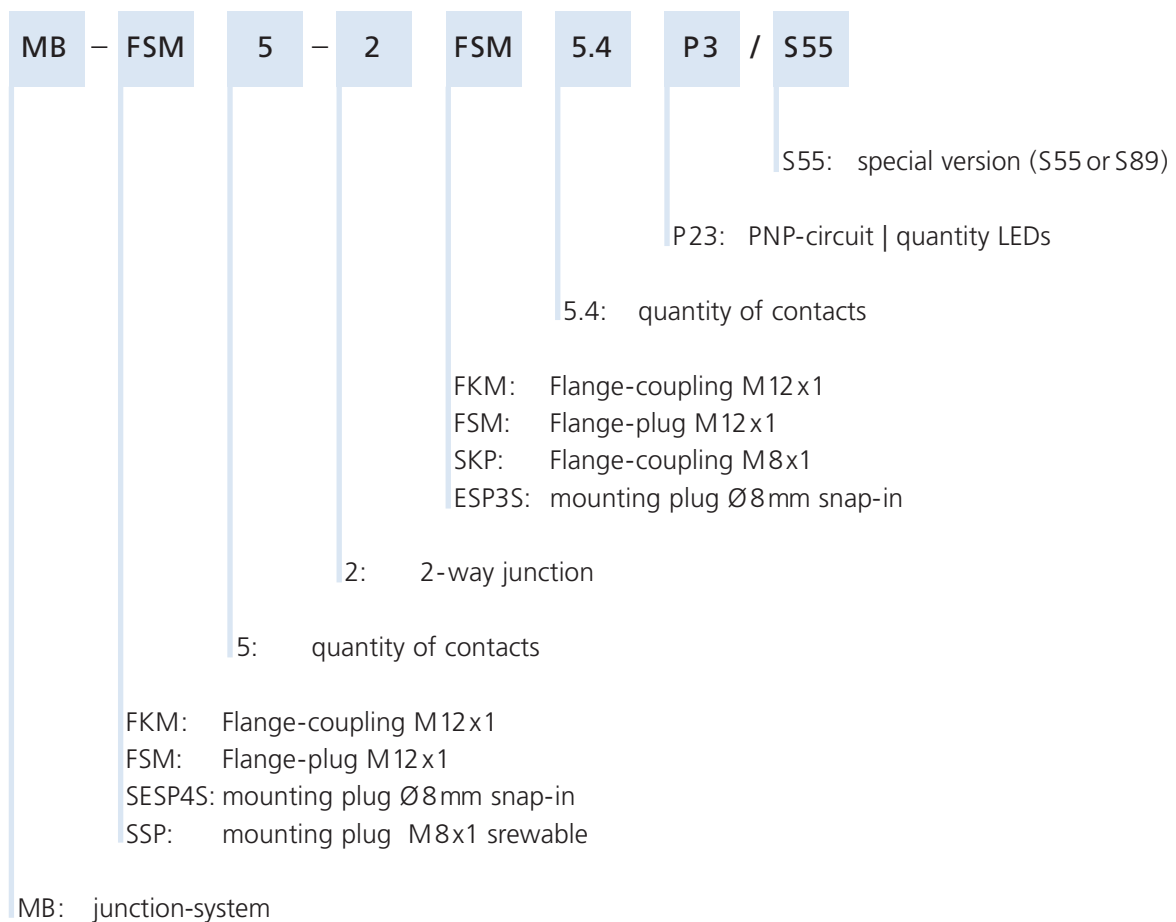
Block-splitter without cable	12.11 – 12.12

T-junction M12x1	12.13

Block-splitter with cable	12.14 – 12.16

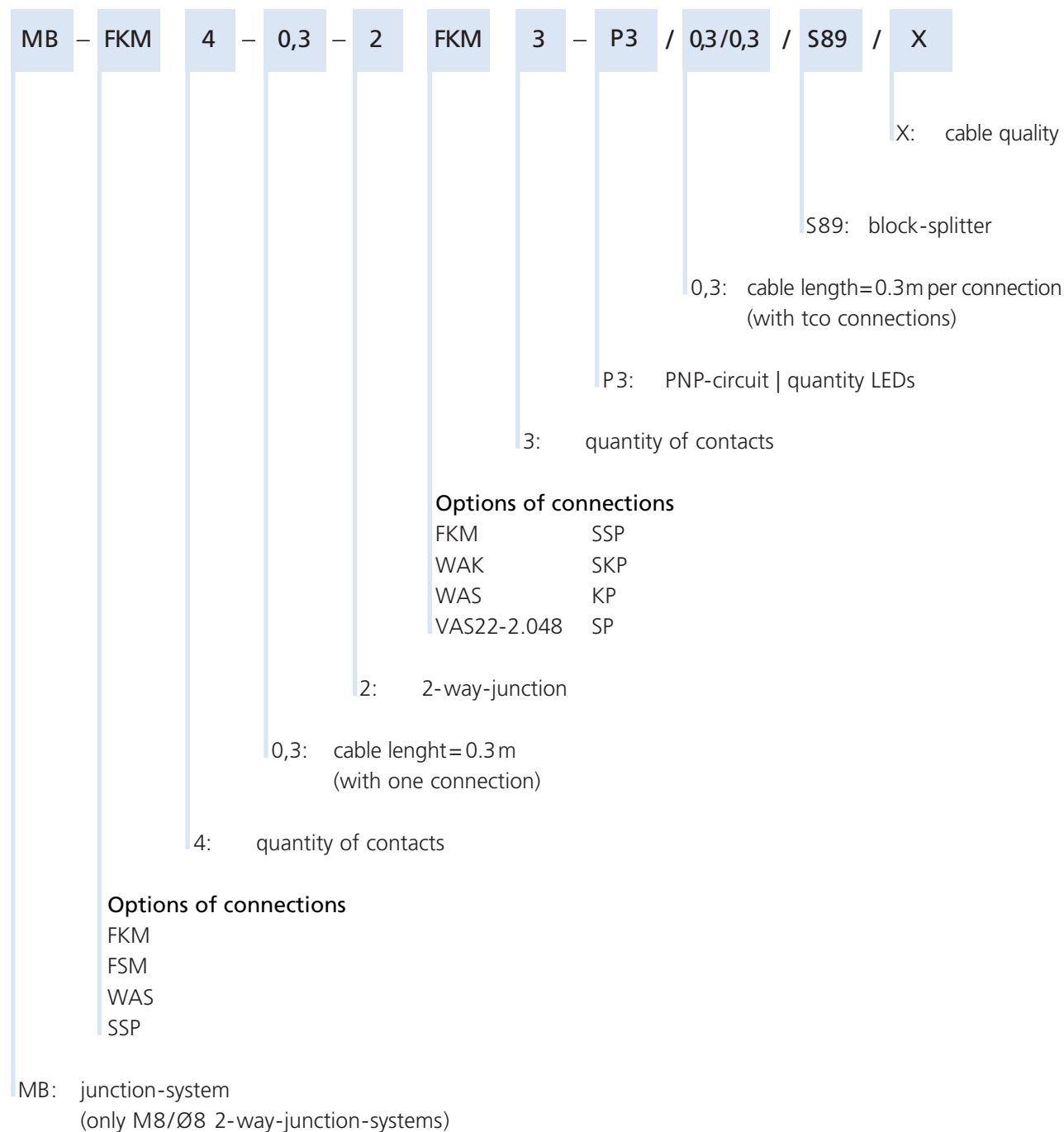
Y-splitter with cable	12.17 – 12.27

Nomenclature 2-way-junction-system without cable

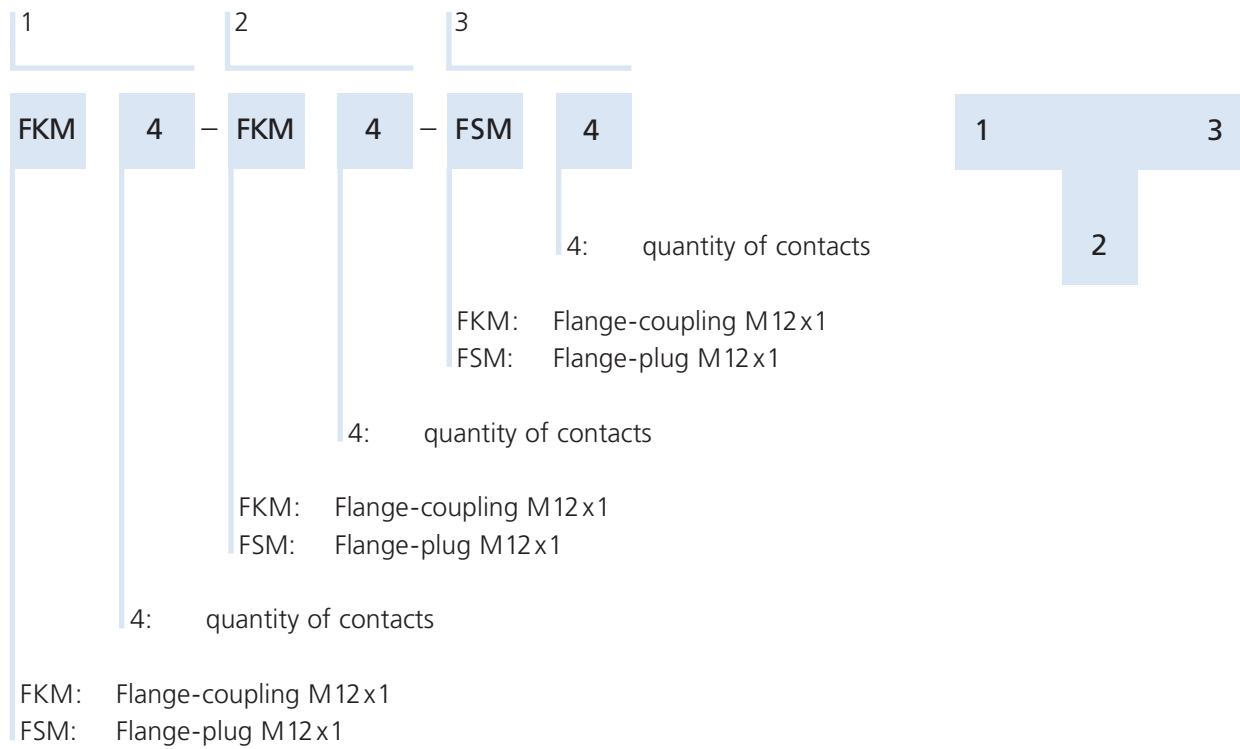


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Nomenclature 2-way-junction-system with cable



Nomenclature T-junction

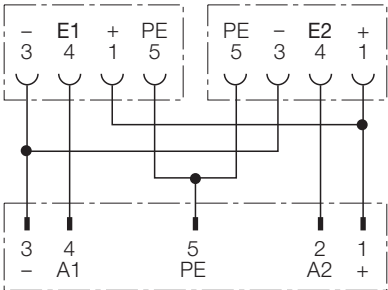
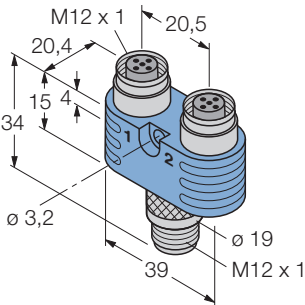


Non appropriate will be let out.

2-Way Junction-Systems
Y-Splitter
Male M12 x 1 - 2x Female M12 x 1



Junction box	Y junction, 5/4-pole
Connector	male connector, M12 x 1, 5-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Polarity	5/4-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

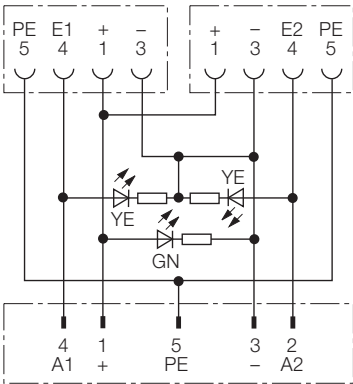
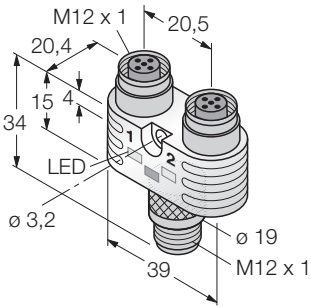


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
5-pole 		MB-FSM5-2FKM5.4 8024643
4-pole 		
4-pole 		

Subject to change without notice Edition: 11.2008

2-Way Junction-Systems
Y-Splitter
Male M12 x 1 - 2x Female M12 x 1, with LED

Junction box	Y junction, 5/4-pole
Connector	male connector, M12 x 1, 5-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, transparent
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Polarity	5/4-pole
Ampacity	4 A
Rated voltage	10 ...30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

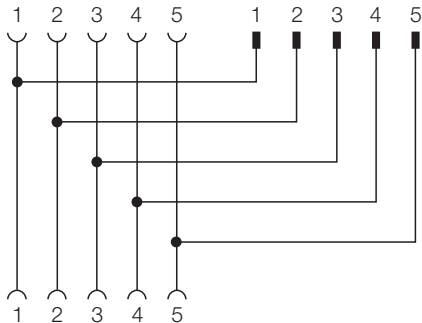
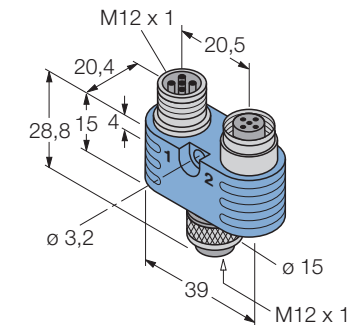


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
5-pole		
4-pole		MB-FSM5-2FKM5.4P3 8024644
4-pole		

2-Way Junction-Systems
Y-Splitter
M12 x 1 / Female - Male - Female



Junction box	Y junction, 5-pole
Connector	female connector, M12 x 1, 5-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	male connector/female connector, M12x1, 5-pole, straight
Grip	plastic, TPU, blue
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



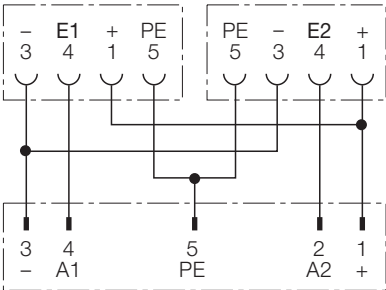
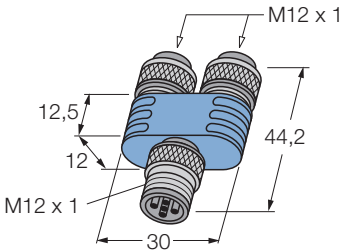
		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
5-pole		MB-FKM5-FSM5-FKM5 8024976
5-pole		
5-pole		

Subject to change without notice Edition: 11.2008

2-Way Junction-Systems
Y-Splitter
Male M12 x 1 - 2x Female M12 x 1
Miniature-Type



Junction box	Y junction, 5/4-pole
Connector	male connector, M12 x 1, 5-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Polarity	5/4-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

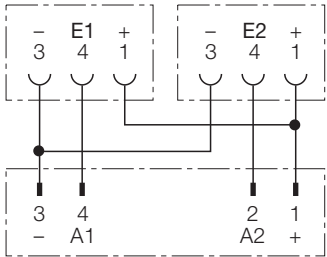
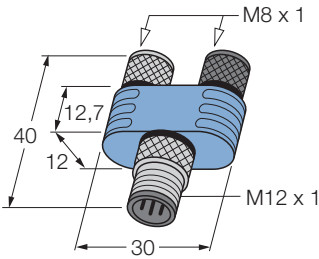


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
5-pole		FSM5-2FKM5.4/S55 8018720
4-pole		
4-pole		

2-Way Junction-Systems
Y-Splitter
Male M12 x 1 - 2x Female M8 x 1
Miniature-Type



Junction box	Y junction, 4/3-pole
Connector	male connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M8 x 1, 3-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, channel 1: PTFE/Channel 2: nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Polarity	4/3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

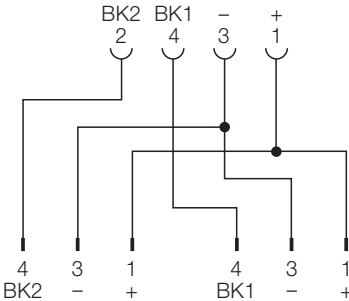
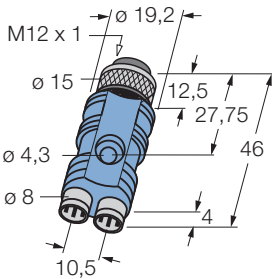


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole		
3-pole		FSM4-2SKP3/S55 8027000
3-pole		

Subject to change without notice Edition: 11.2008

2-Way Junction-Systems
Y-Splitter
Female M12 x 1 - 2x Male Ø 8mm, Snap-In

Junction box	Y junction, 4/3-pole
Connector	female connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	2x male connector, Ø 8 mm, 3-pole, straight, snap-in
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Polarity	4/3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

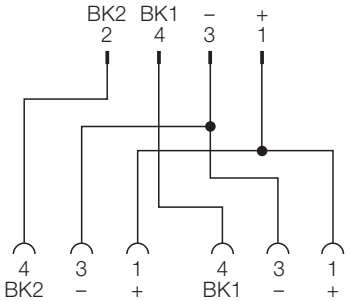
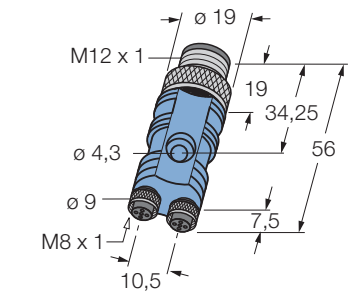


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole 		
3-pole 		FKM4-2ESP3S 8008080
3-pole 		

2-Way Junction-Systems
Y-Splitter
Male M12 x 1 - 2x Female M8 x 1



Junction box	Y junction, 4/3-pole
Connector	male connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M8 x 1, 3-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Polarity	4/3-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



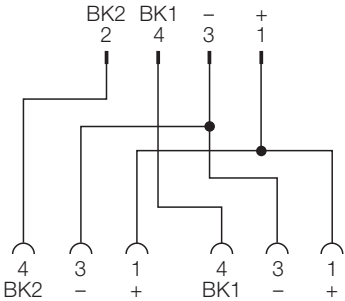
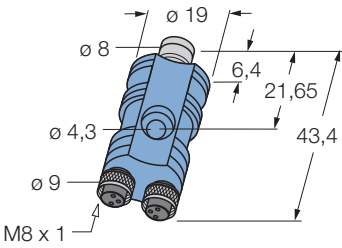
		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole 		FSM4-2SKP3 8008081
3-pole 		
3-pole 		

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2-Way Junction-Systems
Y-Splitter
Male Ø 8mm - 2x Female M8 x 1



Junction box	Y junction, 4/3-pole
Connector	male connector, Ø 8 mm, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	plastic, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M8 x 1, 3-pole, straight
Grip	plastic, TPU, blue
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Polarity	4/3-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

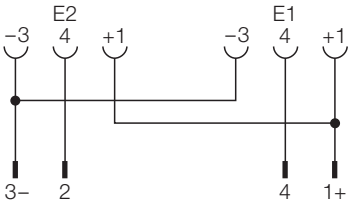
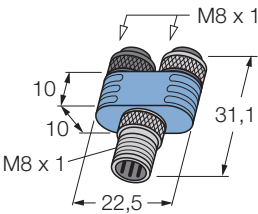


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
4-pole 3-pole 3-pole	Wire-construction	SESP4S-2SKP3 8008082

2-Way Junction-Systems
Y-Splitter
Male M8 x 1 - 2x Female M8 x 1



Junction box	Y junction, 4/3-pole
Connector	male connector, M8 x 1, 4-pole, straight, screwable
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M8 x 1, 3-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, channel 1: PTFE/Channel 2: nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Polarity	4/3-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

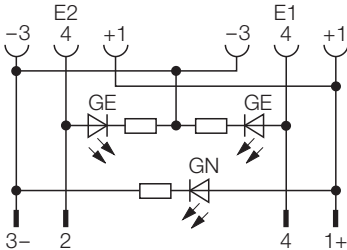
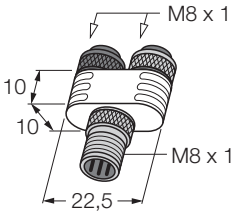


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole 		MB-SSP4-2SKP3 8025693
3-pole 		
3-pole 		

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2-Way Junction-Systems
Y-Splitter
Male M8 x 1 - 2x Female M8 x 1, with LED

Junction box	Y junction, 4/3-pole
Connector	male connector, M8 x 1, 3-pole, straight
Grip	plastic, TPU, transparent
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M8 x 1, 3-pole, straight
Grip	plastic, TPU, transparent
Coupling nut/screw	metal, CuZn, channel 1: PTFE/Channel 2: nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Polarity	4/3-pole
Ampacity	4 A
Rated voltage	max. 30 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

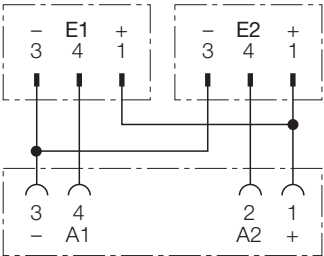
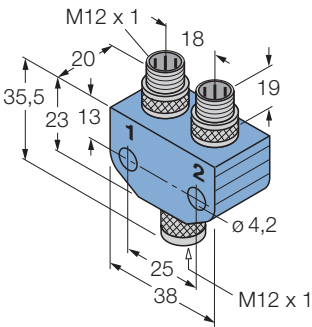


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole  3-pole  3-pole 		MB-SSP4-2SKP3P3 8024659

2-Way Junction-Systems
Block-Splitter
Female M12x1 - 2x Male M12 x 1



Junction box	block junction, 4/3-pole
Connector	female connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	2x male connector, M12 x 1, 3-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	4/3-pole
Ampacity	4 A
Rated voltage	max. 250 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

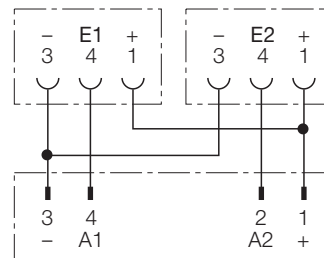


		Standard cable-length
		Type m
Coding	Cable-quality	Type-designation Order-number
	Wire-construction	
4-pole 		FKM4-2FSM3/S89 8012651
3-pole 		
3-pole 		

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Technical drawing of a mechanical part (Fig. 1.10) showing dimensions and labels:

- Overall width: 38
- Distance between top holes: 18
- Top hole diameter: $\varnothing 9$
- Top hole thread: M8 x 1
- Top hole depth: 13
- Top hole position offset: 7,5
- Bottom hole diameter: $\varnothing 19$
- Bottom hole thread: M12 x 1
- Bottom hole depth: 23
- Bottom hole position offset: 19
- Overall height: 25
- Top hole position offset: 20

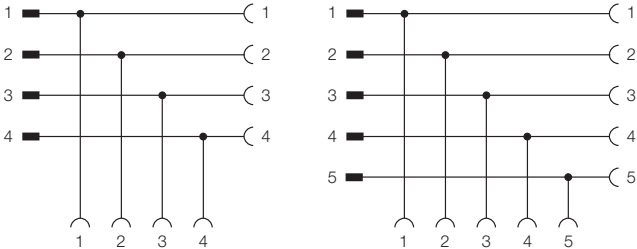
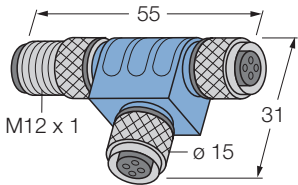


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2-Way Junction-Systems T-Connection M12 x 1, Female - Female - Male



Junction box	T adapter, 4-pole
Connector	2x female connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM (Viton)
Connector	male connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Polarity	4-pole
Ampacity	4 A
Rated voltage	max. 250 V
Polarity	5-pole
Ampacity	4 A
Rated voltage	max. 60 V
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



		Standard cable-length
		Type m
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole 		FKM4-FKM4-FSM4 8009675
4-pole 		
4-pole 		
5-pole 		FKM5-FKM5-FSM5 8011661
5-pole 		
5-pole 		

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Subject to change without notice

2-Way Junction-Systems
Block-Splitter
Male M12 x 1 - 2x Female M12 x 1, with Cable



Junction box
Connector
Grip
Coupling nut/screw
Contact carriers
Contacts

block junction, 4/3-pole
male connector, M12 x 1, 4-pole, straight
plastic, TPU, blue
metal, CuZn, nickel-plated
plastic, TPU, black
metal, CuZn, gold-plated

Connector

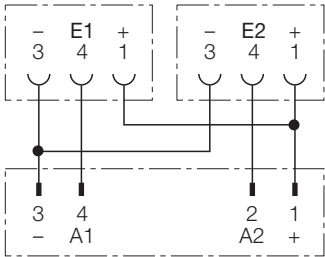
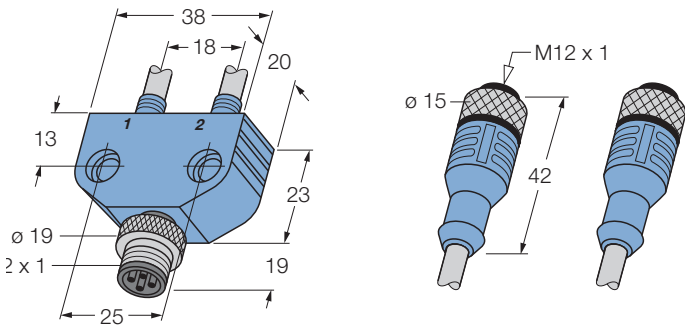
2x female connector, M12 x 1, 3-pole,
straight, with cable
plastic, TPU, blue
metal, CuZn, nickel-plated
plastic, TPU, black
metal, CuZn, gold-plated
plastic, FKM/FPM

Rated voltage
Ampacity
Insulation resistance
Forward resistance
Pollution degree

max. 250 V
4 A
 $\geq 10^9 \Omega$
 $\leq 5 \text{ m}\Omega$
3

Ambient temperature junction
Degree of protection
Mechanical lifespan

-30 ... +90 °C
IP67
min. 100 contact durability



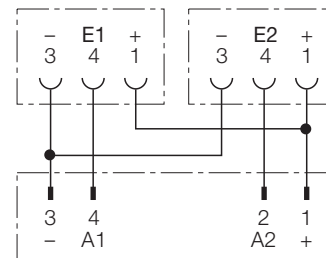
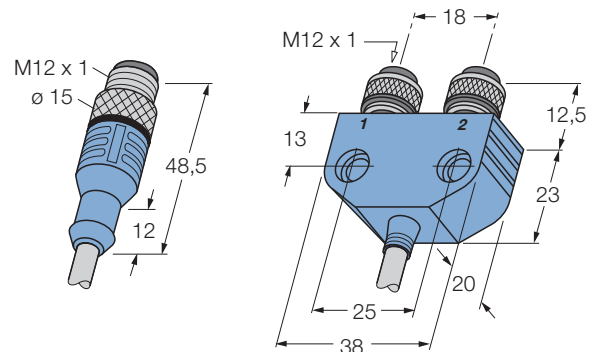
		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
Wire-construction				
4-pole 	PVC, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-0,3/0,3/S89/P00 8009590	...-0,6/0,6/... 8009594	...-1/1/... 8009564
	PVC, irradiated, OG 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-0,3/0,3/S89/XOR 8009593	...-0,6/0,6/... 8009598	...-1/1/... 8009569
	PUR/PVC, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-0,3/0,3/S89/S90 8008715	...-0,6/0,6/... 8009597	...-1/1/... 8009568
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm ² / Ø 4.6 mm	FSM4-2WAK3-0,3/0,3/S89/S74 8009591	...-0,6/0,6/... 8009595	...-1/1/... 8009565
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-0,3/0,3/S89/S366 auf Anfrage	...-0,6/0,6/... auf Anfrage	...-1/1/... auf Anfrage
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.4 mm	FSM4-2WAK3-0,3/0,3/S89/S398 auf Anfrage	...-0,6/0,6/... auf Anfrage	...-1/1/... auf Anfrage
	Standard cable-length			
		1,5 m	2 m	5 m
	PVC, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/S89/P00 8009600	...-2/2/... 8009574	...-5/5/... 8009584
	PVC, irradiated, OG 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/S89/XOR 8009604	...-2/2/... 8009579	...-5/5/... 8009589
3-pole 	PUR/PVC, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/S89/S90 8009603	...-2/2/... 8009578	...-5/5/... 8009588
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm ² / Ø 4.6 mm	FSM4-2WAK3-1,5/1,5/S89/S74 8009601	...-2/2/... 8009575	...-5/5/... 8009585
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/S89/S366 auf Anfrage	...-2/2/... auf Anfrage	...-5/5/... auf Anfrage
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.4 mm	FSM4-2WAK3-1,5/1,5/S89/S398 auf Anfrage	...-2/2/... auf Anfrage	...-5/5/... auf Anfrage
	Standard cable-length			
		1,5 m	2 m	5 m
3-pole 	PVC, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/S89/P00 8009600	...-2/2/... 8009574	...-5/5/... 8009584
	PVC, irradiated, OG 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/S89/XOR 8009604	...-2/2/... 8009579	...-5/5/... 8009589
	PUR/PVC, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/S89/S90 8009603	...-2/2/... 8009578	...-5/5/... 8009588
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm ² / Ø 4.6 mm	FSM4-2WAK3-1,5/1,5/S89/S74 8009601	...-2/2/... 8009575	...-5/5/... 8009585
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/S89/S366 auf Anfrage	...-2/2/... auf Anfrage	...-5/5/... auf Anfrage
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.4 mm	FSM4-2WAK3-1,5/1,5/S89/S398 auf Anfrage	...-2/2/... auf Anfrage	...-5/5/... auf Anfrage

2-Way Junction-Systems

Block-Splitter

Male M12 x 1, with Cable - 2x Female M12 x 1

Junction box	block junction, 4/3-pole
Connector	male connector, M12 x 1, 4-pole, straight, with cable
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M12 x 1, 3-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

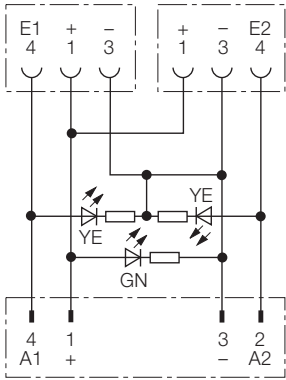
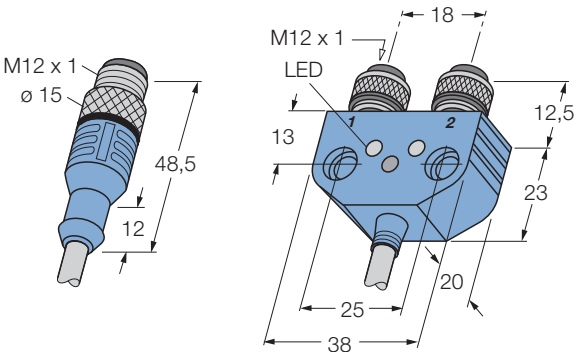


		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 3-pole 3-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WAS4-0,3-2FKM3/S89/P00 8012653	...-0,6/0,6/... 8012654	...-1/1/... 8012655
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WAS4-0,3-2FKM3/S89/XOR 8012665	...-0,6/0,6/... 8012666	...-1/1/... 8012667
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WAS4-0,3-2FKM3/S89/S90 8012659	...-0,6/0,6/... 8012660	...-1/1/... 8012661
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 4.6 mm	WAS4-0,3-2FKM3/S89/S74 8012671	...-0,6/0,6/... 8012672	...-1/1/... 8012673
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 5.2 mm	WAS4-0,3-2FKM3/S89/S366 auf Anfrage	...-0,6/0,6/... auf Anfrage	...-1/1/... auf Anfrage
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	WAS4-0,3-2FKM3/S89/S398 auf Anfrage	...-0,6/0,6/... auf Anfrage	...-1/1/... auf Anfrage
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WAS4-1,5-2FKM3/S89/P00 8012656	...-2/2/... 8012657	...-5/5/... 8012658
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	WAS4-1,5-2FKM3/S89/XOR 8012668	...-2/2/... 8012669	...-5/5/... 8012670
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	WAS4-1,5-2FKM3/S89/S90 8012662	...-2/2/... 8012663	...-5/5/... 8012664
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 4.6 mm	WAS4-1,5-2FKM3/S89/S74 8012674	...-2/2/... 8012675	...-5/5/... 8012676
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 5.2 mm	WAS4-1,5-2FKM3/S89/S366 auf Anfrage	...-2/2/... auf Anfrage	...-5/5/... auf Anfrage
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	WAS4-1,5-2FKM3/S89/S398 auf Anfrage	...-2/2/... auf Anfrage	...-5/5/... auf Anfrage

2-Way Junction-Systems
Block-Splitter
Male M12 x 1, with Cable -
2x Female M12 x 1, with LED



Junction box	block junction, 4/3-pole
Connector	male connector, M12 x 1, 4-pole, straight, with cable
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M12 x 1, 3-pole, straight
Grip	plastic, TPU, transparent
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Rated voltage	10 ...30
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



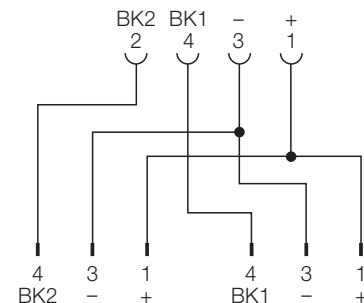
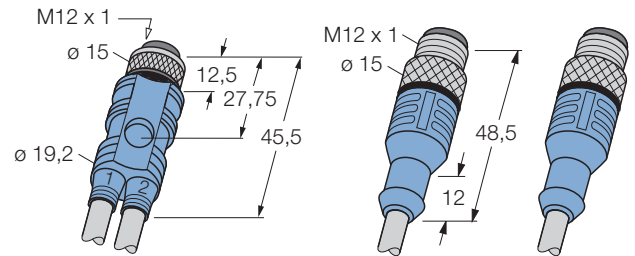
		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WAS4-0,3-2FKM3P3/S89/P00 auf Anfrage	...-0,6/0,6/... auf Anfrage	...-1/1/... auf Anfrage
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WAS4-0,3-2FKM3P3/S89/XOR auf Anfrage	...-0,6/0,6/... auf Anfrage	...-1/1/... 8015710
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WAS4-0,3-2FKM3P3/S89/S90 auf Anfrage	...-0,6/0,6/... auf Anfrage	...-1/1/... auf Anfrage
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 4.6 mm	WAS4-0,3-2FKM3P3/S89/S74 auf Anfrage	...-0,6/0,6/... 8015522	...-1/1/... 8015523
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 5.2 mm	WAS4-0,3-2FKM3P3/S89/S366 auf Anfrage	...-0,6/0,6/... auf Anfrage	...-1/1/... auf Anfrage
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.4 mm	WAS4-0,3-2FKM3P3/S89/S398 auf Anfrage	...-0,6/0,6/... auf Anfrage	...-1/1/... auf Anfrage
3-pole 	Standard cable-length			
		1,5 m	2 m	5 m
	PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WAS4-1,5-2FKM3P3/S89/P00 auf Anfrage	...-2/2/... auf Anfrage	...-5/5/... auf Anfrage
	PVC, irradiated, OG 4 x0.34 mm² / Ø 5.2 mm	WAS4-1,5-2FKM3P3/S89/XOR auf Anfrage	...-2/2/... auf Anfrage	...-5/5/... auf Anfrage
	PUR/PVC, GY 4 x0.34 mm² / Ø 5.2 mm	WAS4-1,5-2FKM3P3/S89/S90 auf Anfrage	...-2/2/... auf Anfrage	...-5/5/... auf Anfrage
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm² / Ø 4.6 mm	WAS4-1,5-2FKM3P3/S89/S74 auf Anfrage	...-2/2/... 8040604	...-5/5/... auf Anfrage
3-pole 	PUR, halogen-free, GY 4 x0.34 mm² / Ø 5.2 mm	WAS4-1,5-2FKM3P3/S89/S366 auf Anfrage	...-2/2/... auf Anfrage	...-5/5/... auf Anfrage
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.4 mm	WAS4-1,5-2FKM3P3/S89/S398 8032149	...-2/2/... auf Anfrage	...-5/5/... auf Anfrage

2-Way Junction-Systems

Y - Splitter

Female M12 x 1 - 2x Male M12 x 1, with Cable

Junction box	Y junction, 4/3-pole
Connector	female connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	2x male connector, M12 x 1, 3-pole, straight, with cable
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Rated voltage	max. 250 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
	Wire-construction			
4-pole 	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	FKM4-2WAS3-0,3/0,3/P00 8008096	...-0,6/0,6/... 8008101	...-1/1/... 8009622
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	FKM4-2WAS3-0,3/0,3/XOR 8008098	...-0,6/0,6/... 8008103	...-1/1/... 8009624
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	FKM4-2WAS3-0,3/0,3/S90 8008097	...-0,6/0,6/... 8008102	...-1/1/... 8009623
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 4.6 mm	FKM4-2WAS3-0,3/0,3/S74 8008100	...-0,6/0,6/... 8008105	...-1/1/... 8009626
3-pole 	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 5.2 mm	FKM4-2WAS3-0,3/0,3/S366 8026161	...-0,6/0,6/... 8026162	...-1/1/... 8026163
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	FKM4-2WAS3-0,3/0,3/S398 8017860	...-0,6/0,6/... 8019469	...-1/1/... 8018368
3-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	FKM4-2WAS3-1,5/1,5/P00 8008106	...-2/2/... 8009627	...-5/5/... 8009632
	PVC, irradiated, OG 4 x 0.34 mm ² / Ø 5.2 mm	FKM4-2WAS3-1,5/1,5/XOR 8008108	...-2/2/... 8009629	...-5/5/... 8009634
	PUR/PVC, GY 4 x 0.34 mm ² / Ø 5.2 mm	FKM4-2WAS3-1,5/1,5/S90 8008107	...-2/2/... 8009628	...-5/5/... 8009633
	PUR, halogen-free, highly flexible, OG 4 x 0.34 mm ² / Ø 4.6 mm	FKM4-2WAS3-1,5/1,5/S74 8008110	...-2/2/... 8009631	...-5/5/... 8009636
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 5.2 mm	FKM4-2WAS3-1,5/1,5/S366 8026164	...-2/2/... 8026165	...-5/5/... 8026166
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	FKM4-2WAS3-1,5/1,5/S398 8026224	...-2/2/... 8018927	...-5/5/... 8026225

2-Way Junction-Systems
Y - Splitter
Male M12 x 1 - 2x Female M12 x 1, with Cable



- Junction box

Connector

Grip

Coupling nut/screw

Contact carriers

Contacts
- Y junction, 4/3-pole
male connector, M12 x 1, 4-pole, straight
plastic, TPU, blue
metal, CuZn, nickel-plated
plastic, TPU, black
metal, CuZn, gold-plated
- Connector

Grip

Coupling nut/screw

Contact carriers

Contacts

Seal
- 2x female connector, M12 x 1, 3-pole,
straight, with cable
plastic, TPU, blue
metal, CuZn, nickel-plated
plastic, TPU, black
metal, CuZn, gold-plated
plastic, FKM/FPM
- Rated voltage

Ampacity

Insulation resistance

Forward resistance

Pollution degree
- max. 250 V

4 A

$\geq 10^9 \Omega$

$\leq 5 \text{ m}\Omega$

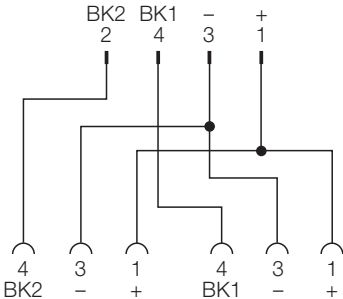
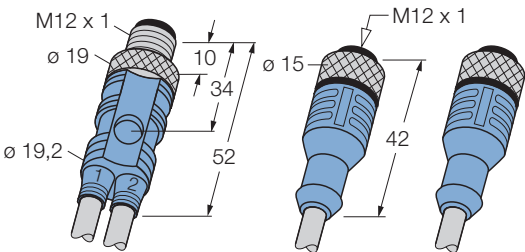
3
- Ambient temperature junction

Degree of protection

Mechanical lifespan
- 30 ... +90 °C

IP67

min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
Wire-construction				
4-pole 2 BK line 2 3 BU x 2 1 BN x 2 4 BK line 1 3-pole 2 1 BN 3 BU 4 BK 3-pole 2 1 BN 3 BU 4 BK	PVC, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-0,3/0,3/P00 8008065	...-0,6/0,6/... 8008070	...-1/1/... 8009560
	PVC, irradiated, OG 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-0,3/0,3/XOR 8008067	...-0,6/0,6/... 8008072	...-1/1/... 8009562
	PUR/PVC, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-0,3/0,3/S90 8008066	...-0,6/0,6/... 8008071	...-1/1/... 8009561
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm ² / Ø 4.6 mm	FSM4-2WAK3-0,3/0,3/S74 8008069	...-0,6/0,6/... 8008074	...-1/1/... 8009567
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-0,3-0,3/S366 8026168	...-0,6/0,6/... 8026169	...-1/1/... 8026170
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.4 mm	FSM4-2WAK3-0,3/0,3/S398 8017324	...-0,6/0,6/.. 8018817	...-1/1/... 8018058
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/P00 8008075	...-2/2/... 8009570	...-5/5/... 8009580
	PVC, irradiated, OG 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/XOR 8008077	...-2/2/... 8009572	...-5/5/... 8009582
	PUR/PVC, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/S90 8008076	...-2/2/... 8009571	...-5/5/... 8009581
	PUR, halogen-free, highly flexible, OG 4 x0.34 mm ² / Ø 4.6 mm	FSM4-2WAK3-1,5/1,5/S74 8008078	...-2/2/... 8009577	...-5/5/... 8009587
	PUR, halogen-free, GY 4 x0.34 mm ² / Ø 5.2 mm	FSM4-2WAK3-1,5/1,5/S366 8026171	...-2/2/... 8026172	...-5/5/... 8026173
	PUR, irradiated, OG 4 x0.34 mm ² / Ø 4.4 mm	FSM2-2WAK3-1,5/1,5/S398 8018818	...-2/2/... 8018753	...-5/5/... 8018820

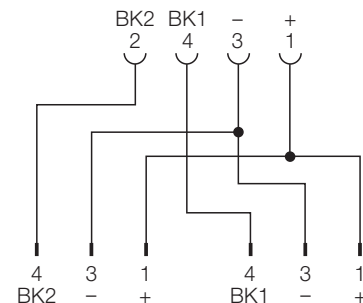
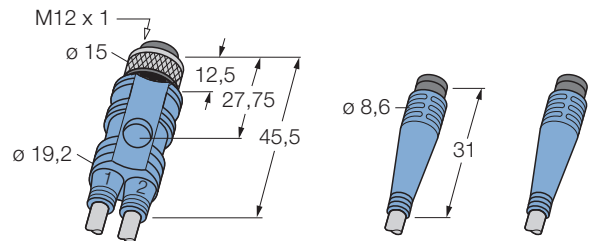
2-Way Junction-Systems

Y - Splitter

Female M12 x 1 -

2x Male Ø 8mm, with Cable, Snap-In

Junction box	Y junction, 4/3-pole
Connector	female connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	2x male connector, Ø 8 mm, 3-pole, straight, with cable, snap-in
Grip	plastic, TPU, blue
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	max. 60 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

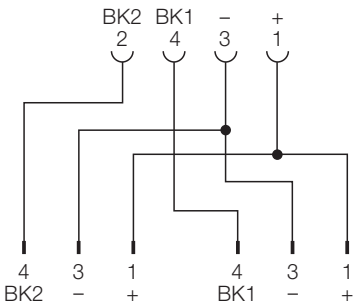
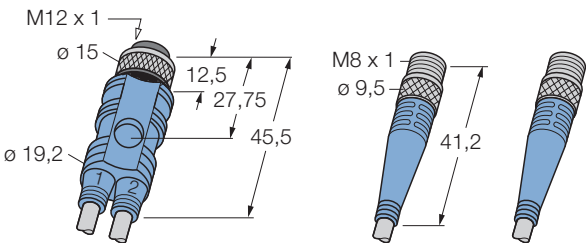


		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-0,3/0,3/P00 8008085	...-0,6/0,6/... 8008088	...-1/1/... 8009608
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-0,3/0,3/XOR 8009620	...-0,6/0,6/... 8008090	...-1/1/... 8009610
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-0,3/0,3/S90 8008086	...-0,6/0,6/... 8008089	...-1/1/... 8009609
	PUR, halogen-free, highly flexible, OG 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-0,3/0,3/S74 8008087	...-0,6/0,6/... 8008091	...-1/1/... 8009611
	PUR, halogen-free, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-0,3/0,3/S366 8026175	...-0,6/0,6/... 8026176	...-1/1/... 8026177
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	FKM4-2SP3-0,3/0,3/S77/S398 8026182	...-0,6/0,6/... 8026183	...-1/1/... 8026184
	Standard cable-length			
3-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-1,5/1,5/P00 8008092	...-2/2/... 8009612	...-5/5/... 8009616
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-1,5/1,5/XOR 8008094	...-2/2/... 8009614	...-5/5/... 8009618
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-1,5/1,5/S90 8008093	...-2/2/... 8009613	...-5/5/... 8009617
	PUR, halogen-free, highly flexible, OG 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-1,5/1,5/S74 8008095	...-2/2/... 8009615	...-5/5/... 8009619
	PUR, halogen-free, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-1,5/1,5/S366 8026178	...-2/2/... 8026179	...-5/5/... 8026180
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	FKM4-2SP3-1,5/1,5/S77/S398 8026185	...-2/2/... 8026186	...-5/5/... 8026187
	Standard cable-length			
3-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-1,5/1,5/P00 8008092	...-2/2/... 8009612	...-5/5/... 8009616
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-1,5/1,5/XOR 8008094	...-2/2/... 8009614	...-5/5/... 8009618
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-1,5/1,5/S90 8008093	...-2/2/... 8009613	...-5/5/... 8009617
	PUR, halogen-free, highly flexible, OG 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SP3-1,5/1,5/S74 8008095	...-2/2/... 8009615	...-5/5/... 8009619

2-Way Junction-Systems
Y - Splitter
Female M12 x 1 - 2x Male M8 x 1, with Cable



Junction box	Y junction, 4/3-pole
Connector	female connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	2x male connector, M8 x 1, 3-pole, straight, with cable, screwable
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Rated voltage	max. 60 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



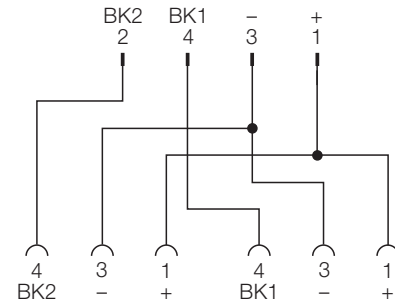
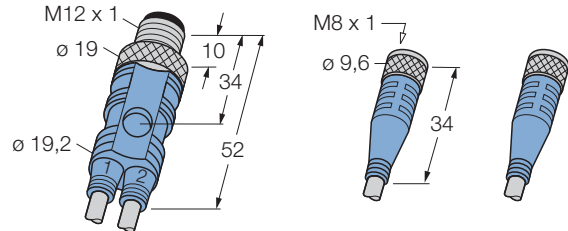
		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SSP3-0,3/0,3/P00 8008126	...-0,6/0,6/... 8008130	...-1/1/... 8009657
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SSP3-0,3/0,3/XOR 8008128	...-0,6/0,6/... 8008132	...-1/1/... 8009659
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SSP3-0,3/0,3/S90 8008127	...-0,6/0,6/... 8008131	...-1/1/... 8009658
	PUR, halogen-free, highly flexible, OG 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SSP3-0,3/0,3/S74 8008129	...-0,6/0,6/... 8008133	...-1/1/... 8009661
	PUR, halogen-free, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SSP3-0,3/0,3/S366 8026189	...-0,6/0,6/... 8026190	...-1/1/... 8026191
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	FKM4-2SSP3-0,3/0,3/S77/S398 8015606	...-0,6/0,6/... 8026227	...-1/1/... 8026228
	3-pole 	Standard cable-length		
		1,5 m	2 m	5 m
		FKM4-2SSP3-1,5/1,5/P00 8008134	...-2/2/... 8009662	...-5/5/... 8009667
		FKM4-2SSP3-1,5/1,5/XOR 8008136	...-2/2/... 8009664	...-5/5/... 8009669
		FKM4-2SSP3-1,5/1,5/S90 8008135	...-2/2/... 8009663	...-5/5/... 8009668
		FKM4-2SSP3-1,5/1,5/S74 8008137	...-2/2/... 8009666	...-5/5/... 8009671
		FKM4-2SSP3-1,5/1,5/S366 8026192	...-2/2/... 8026193	...-5/5/... 8026194
		FKM4-2SSP3-1,5/1,5/S77/S398 8026229	...-2/2/... 8026230	...-5/5/... 8026231
3-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SSP3-1,5/1,5/P00 8008134	...-2/2/... 8009662	...-5/5/... 8009667
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SSP3-1,5/1,5/XOR 8008136	...-2/2/... 8009664	...-5/5/... 8009669
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SSP3-1,5/1,5/S90 8008135	...-2/2/... 8009663	...-5/5/... 8009668
	PUR, halogen-free, highly flexible, OG 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SSP3-1,5/1,5/S74 8008137	...-2/2/... 8009666	...-5/5/... 8009671
3-pole 	PUR, halogen-free, GY 4 x 0.25 mm ² / Ø 4.4 mm	FKM4-2SSP3-1,5/1,5/S366 8026192	...-2/2/... 8026193	...-5/5/... 8026194
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	FKM4-2SSP3-1,5/1,5/S77/S398 8026229	...-2/2/... 8026230	...-5/5/... 8026231

2-Way Junction-Systems

Y - Splitter

Male M12 x 1 - 2x Female M8 x 1, with Cable

Junction box	Y junction, 4/3-pole
Connector	male connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M8 x 1, 3-pole, straight, with cable
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Rated voltage	max. 60 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

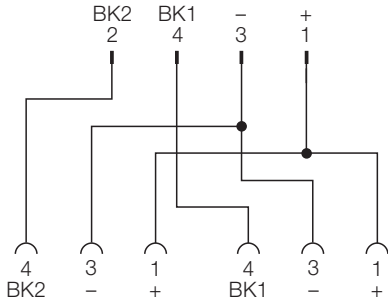
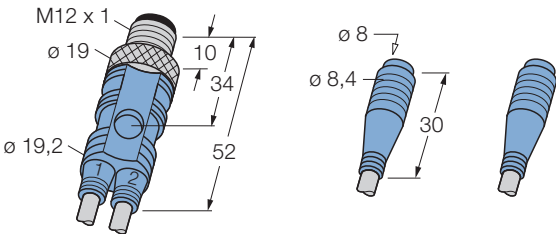


		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 3-pole 3-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2SKP3-0,3/0,3/P00 8008053	...-0,6/0,6/... 8008057	...-1/1/... 8009541
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2SKP3-0,3/0,3/XOR 8008055	...-0,6/0,6/... 8008059	...-1/1/... 8009543
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2SKP3-0,3/0,3/S90 8008054	...-0,6/0,6/... 8008058	...-1/1/... 8009542
	PUR, halogen-free, highly flexible, OG 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2SKP3-0,3/0,3/S74 8008056	...-0,6/0,6/... 8008060	...-1/1/... 8009545
	PUR, halogen-free, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2SKP3-0,3/0,3/S366 8026196	...-0,6/0,6/... 8026197	...-1/1/... 8026198
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	FSM4-2SKP3-0,3/0,3/S77/S398 8026233	...-0,6/0,6/... 8018846	...-1/1/... 8021290
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2SKP3-1,5/1,5/P00 8008061	...-2/2/... 8009546	...-5/5/... 8009551
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2SKP3-1,5/1,5/XOR 8008063	...-2/2/... 8009548	...-5/5/... 8009553
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2SKP3-1,5/1,5/S90 8008062	...-2/2/... 8009547	...-5/5/... 8009552
	PUR, halogen-free, highly flexible, OG 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2SKP3-1,5/1,5/S74 8008064	...-2/2/... 8009550	...-5/5/... 8009555
	PUR, halogen-free, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2SKP3-1,5/1,5/S366 8026199	...-2/2/... 8026200	...-5/5/... 8026201
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	FSM4-2SKP3-1,5/1,5/S77/S38 8021806	...-2/2/... 8026234	...-5/5/... 8026235

2-Way Junction-Systems
Y - Splitter
Male M12 x 1 -
2x Female Ø8 mm, with Cable, Snap-In



Junction box	Y junction, 4/3-pole
Connector	male connector, M12 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, Ø 8 mm, 3-pole, straight, with cable, snap-in
Grip	plastic, TPU, blue
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Rated voltage	max. 60 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



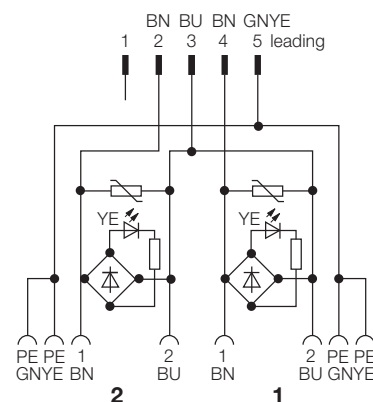
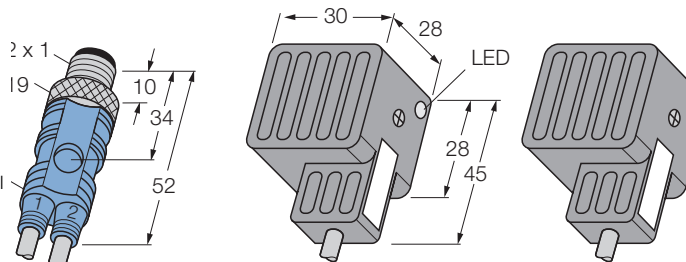
		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2KP3-0,3/0,3/P00 8008140	...-0,6/0,6/... 8008144	...-1/1/... 8009676
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2KP3-0,3/0,3/XOR 8008142	...-0,6/0,6/... 8008146	...-1/1/... 8009678
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2KP3-0,3/0,3/S90 8008141	...-0,6/0,6/... 8008145	...-1/1/... 8009677
	PUR, halogen-free, highly flexible, OG 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2KP3-0,3/0,3/S74 8008143	...-0,6/0,6/... 8008147	...-1/1/... 8009680
	PUR, halogen-free, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2KP3-0,3/0,3/S366 8026203	...-0,6/0,6/... 8026204	...-1/1/... 8026205
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	FSM4-2KP3-0,3/0,3/S77/S398 8026210	...-0,6/0,6/... 8026211	...-1/1/... 8026212
		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2KP3-1,5/1,5/P00 8008148	...-2/2/... 8009681	...-5/5/... 8009686
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2KP3-1,5/1,5/XOR 8008150	...-2/2/... 8009683	...-5/5/... 8009688
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2KP3-1,5/1,5/S90 8008149	...-2/2/... 8009682	...-5/5/... 8009687
	PUR, halogen-free, highly flexible, OG 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2KP3-1,5/1,5/S74 8008151	...-2/2/... 8009685	...-5/5/... 8009690
	PUR, halogen-free, GY 4 x 0.25 mm ² / Ø 4.4 mm	FSM4-2KP3-1,5/1,5/S366 8026206	...-2/2/... 8026207	...-5/5/... 8026208
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.4 mm	FSM4-2KP3-1,5/1,5/S77/S398 8026213	...-2/2/... 8026214	...-5/5/... 8026215

2-Way Junction-Systems

Y-Splitter, Male M12 x 1 -

2x Valve-Connector Type A, with Cable, Ground Contacts Parallel Wired

Junction box	Y junction, 3/2-pole + ground
Connector	male connector, M12 x 1, 3-pole + ground, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x valve connector, construction type A, 2-pole + ground, ground contacts parallel wired, straight, with cable
Grip	plastic, TPU, black
Contact carriers	plastic, TPU, black
Fiber-optic sensor	plastic, PC transparent
Contacts	metal, CuSn, silver-plated
Seal	plastic, TPU
Coupling nut/screw	metal, CuZn, nickel-plated
Rated voltage	max. 48 VAC/DC
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Display switch state	LED yellow
Protective component	Varistor
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability

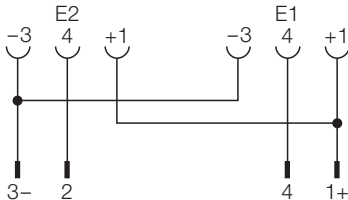
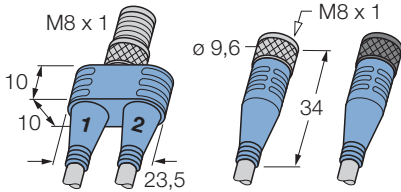


		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole + ground 	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	FSM5-2VAS-22-2.048-03/0,3/P00 8008115	...-0,6/0,6/... 8008119	...-1/1/... 8009638
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	FSM5-2VAS-22-2.048-0,3/0,3/XOR 8008117	...-0,6/0,6/... 8008121	...-1/1/... 8009640
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	FSM5-2VAS22-2.048-0,3/0,3/S90 8008116	...-0,6/0,6/... 8008120	...-1/1/... 8009639
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 5.2 mm	FSM5-2VAS22-2.048-0,3/0,3/S74 8008118	...-0,6/0,6/... 8008122	...-1/1/... 8009642
	PUR, halogen-free, GY 3 x 0.75 mm ² / Ø 6.2 mm	FSM5-2VAS22-2.048-0,3/0,3/S366 8026217	...-0,6/0,6/... 8026218	...-1/1/... 8026219
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 6.2 mm	FSM5-2VAS22-2.048-0,3/0,3/S398 8026237	...-0,6/0,6/... 8017828	...-1/1/... 8019404
2-pole + ground, ground contacts parallel wired 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	FSM5-2VAS22-2.048-1,5/1,5/P00 8009655	...-2/2/... 8009643	...-5/5/... 8009648
	PVC, irradiated, OG 3 x 0.34 mm ² / Ø 5.2 mm	FSM5-2VAS22-2.048-1,5/1,5/XOR 8008124	...-2/2/... 8009645	...-5/5/... 8009650
	PUR/PVC, GY 3 x 0.34 mm ² / Ø 5.2 mm	FSM5-2VAS22-2.048-1,5/1,5/S90 8008123	...-2/2/... 8009644	...-5/5/... 8009649
	PUR, halogen-free, highly flexible, OG 3 x 0.34 mm ² / Ø 5.2 mm	FSM5-2VAS22-2.048-1,5/1,5/S74 8008125	...-2/2/... 8009647	...-5/5/... 8009652
2-pole + ground, ground contacts parallel wired 	PUR, halogen-free, GY 3 x 0.75 mm ² / Ø 6.2 mm	FSM5-2VAS22-2.048-1,5/1,5/S366 8026220	...-2/2/... 8026221	...-5/5/... 8026223
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 6.2 mm	FSM5-2VAS22-2.048-1,5/1,5/S398 8026238	...-2/2/... 8026239	...-5/5/... 8026240

2-Way Junction-Systems
Y-Splitter
Male M8 x 1 - 2x Female M8 x 1, with Cable



Junction box	Y junction, 4/3-pole
Connector	male connector, M8 x 1, 4-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Connector	2x female connector, M8 x 1, 3-pole, straight, with cable
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, channel 1: PTFE/Channel 2: nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FKM/FPM
Rated voltage	max. 30 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
Wire-construction				
4-pole 	PVC, GY 3 x0.25 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-0,3/0,3/P00 8027861	...-0,6/0,6/... 8027862	...-1/1/... 8025704
	PVC, irradiated, OG 3 x0.25 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-0,3/0,3/XOR 8027882	...-0,6/0,6/... 8027883	...-1/1/... 8027884
	PUR/PVC, GY 3 x0.25 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-0,3/0,3/S90 8027868	...-0,6/0,6/... 8027869	...-1/1/... 8027870
	PUR, halogen-free, highly flexible, OG 3 x0.25 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-0,3/0,3/S74 8027889	...-0,6/0,6/... 8027890	...-1/1/... 8027891
	PUR, halogen-free, GY 4 x0.25 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-0,3/0,3/S366 8027875	...-0,6/0,6/... 8027876	...-1/1/... 8027877
	PUR, irradiated, OG 3 x0.34 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-0,3/0,3/S77/S398 8027897	...-0,6/0,6/... 8027898	...-1/1/... 8027899
3-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 3 x0.25 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-1,5/1,5/P00 8027863	...-2/2/... 8027864	...-5/5/... 8027865
	PVC, irradiated, OG 3 x0.25 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-1,5/1,5/XOR 8027885	...-2/2/... 8027886	...-5/5/... 8027887
	PUR/PVC, GY 3 x0.25 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-1,5/1,5/S90 8027871	...-2/2/... 8027872	...-5/5/... 8027873
	PUR, halogen-free, highly flexible, OG 3 x0.25 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-1,5/1,5/S74 8027892	...-2/2/... 8027894	...-5/5/... 8027895
3-pole 	PUR, halogen-free, GY 4 x0.25 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-1,5/1,5/S366 8027878	...-2/2/... 8027879	...-5/5/... 8027880
	PUR, irradiated, OG 3 x0.34 mm ² / Ø 4.4 mm	MB-SSP4-2SKP3-1,5/1,5/S77/S398 8027900	...-2/2/... 8027901	...-5/5/... 8027902

Subject to change without notice Edition: 11.2008

2-Way Junction-Systems

Y-Splitter

Male M8 x 1, with LED -

2x Female M8 x 1, with Cable

Junction box
Connector
Grip
Coupling nut/screw
Contact carriers
Contacts

Y junction, 4/3-pole
male connector, M8 x 1, 4-pole, straight
plastic, TPU, transparent
metal, CuZn, nickel-plated
plastic, TPU, black
metal, CuZn, gold-plated

Connector
Grip
Coupling nut/screw
Contact carriers
Contacts
Seal

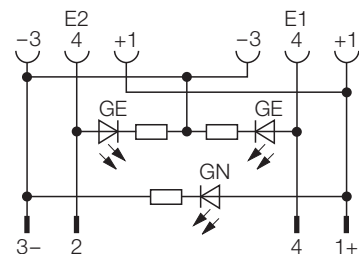
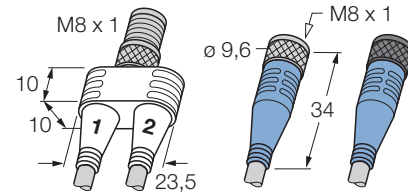
2x female connector, M8 x 1, 3-pole,
straight, with cable
plastic, TPU, blue
metal, CuZn, channel 1: PTFE/Channel 2:
nickel-plated
plastic, TPU, black
metal, CuZn, gold-plated
plastic, FKM/FPM

Rated voltage
Ampacity
Insulation resistance
Forward resistance
Pollution degree

max. 30 V
4 A
 $\geq 10^9 \Omega$
 $\leq 5 \text{ m}\Omega$
3

Ambient temperature junction
Degree of protection
Mechanical lifespan

-30 ... +90 °C
IP67
min. 100 contact durability

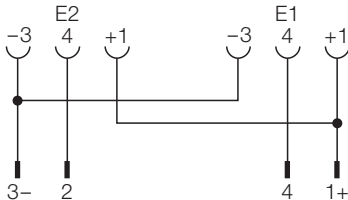
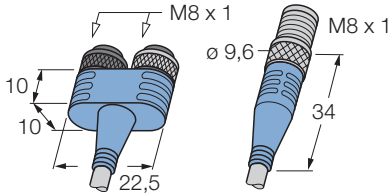


		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
4-pole 	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-0,3/0,3/P00 8028013	...-0,6/0,6/... 8028014	...-1/1/... 8025701
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-0,3/0,3/XOR 8027923	...-0,6/0,6/... 8027924	...-1/1/... 8027925
	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-0,3/0,3/S90 8027906	...-0,6/0,6/... 8027908	...-1/1/... 8027909
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-0,3/0,3/S74 8027930	...-0,6/0,6/... 8027931	...-1/1/... 8027932
	PUR, halogen-free, GY 4 x 0.25 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-0,3/0,3/S366 8027916	...-0,6/0,6/... 8027917	...-1/1/... 8027918
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-0,3/0,3/S77/S398 8027937	...-0,6/0,6/... 8027938	...-1/1/... 8027939
	Standard cable-length			
		1,5 m	2 m	5 m
	PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-1,5/1,5/P00 8028015	...-2/2/... 8028016	...-5/5/... 8028017
	PVC, irradiated, OG 3 x 0.25 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-1,5/1,5/XOR 8027926	...-2/2/... 8027927	...-5/5/... 8027928
3-pole 	PUR/PVC, GY 3 x 0.25 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-1,5/1,5/S90 8027910	...-2/2/... 8027913	...-5/5/... 8027914
	PUR, halogen-free, highly flexible, OG 3 x 0.25 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-1,5/1,5/S74 8027933	...-2/2/... 8027934	...-5/5/... 8027935
	PUR, halogen-free, GY 4 x 0.25 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-1,5/1,5/S366 8027919	...-2/2/... 8027920	...-5/5/... 8027921
	PUR, irradiated, OG 3 x 0.34 mm ² / Ø 4.4 mm	MB-SSP4P3-2SKP3-1,5/1,5/S77/S398 8027940	...-2/2/... 8027941	...-5/5/... 8027942
	Standard cable-length			
		1,5 m	2 m	5 m

2-Way Junction-Systems
Y-Splitter
2x Female M8 x 1 - Male M8 x 1, with Cable



Junction box	Y junction, 3/4-pole
Connector	2x female connector, M8 x 1, 3-pole, straight
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, channel 1: PTFE/channel 2: nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	male connector, M8 x 1, 4-pole, straight, with cable
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Rated voltage	max. 30 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



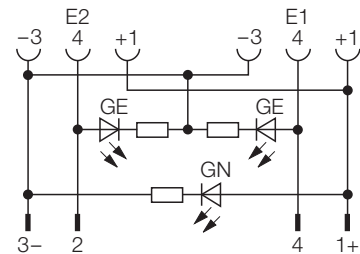
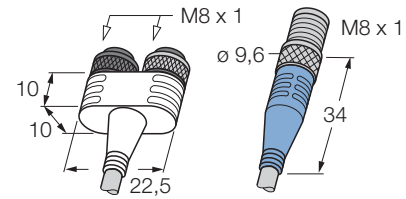
		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
Wire-construction				
3-pole 	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	MB-2SKP3-0,3-SSP4/P00 8027944	...-0,6/0,6/... 8027945	...-1/1/... 8025703
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	MB-2SKP3-0,3-SSP4/XOR 8027964	...-0,6/0,6/... 8027965	...-1/1/... 8027966
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	MB-2SKP3-0,3-SSP4/S90 8027950	...-0,6/0,6/... 8027951	...-1/1/... 8027952
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.8 mm	MB-2SKP3-0,3-SSP4/S77/S366 8027957	...-0,6/0,6/... 8027958	...-1/1/... 8027959
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	MB-2SKP3-0,3-SSP4/S77/S398 8027971	...-0,6/0,6/... 8027972	...-1/1/... 8027973
4-pole 4-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x0.25 mm² / Ø 4.4 mm	MB-2SKP3-1,5-SSP4/P00 8027946	...-2/2/... 8027947	...-5/5/... 8027948
	PVC, irradiated, OG 4 x0.25 mm² / Ø 4.4 mm	MB-2SKP3-1,5-SSP4/XOR 8027967	...-2/2/... 8027968	...-5/5/... 8027969
	PUR/PVC, GY 4 x0.25 mm² / Ø 4.4 mm	MB-2SKP3-1,5-SSP4/S90 8027953	...-2/2/... 8027954	...-5/5/... 8027955
	PUR, halogen-free, GY 4 x0.34 mm² / Ø 4.8 mm	MB-2SKP3-1,5-SSP4/S77/S366 8027960	...-2/2/... 8027961	...-5/5/... 8027962
	PUR, irradiated, OG 4 x0.34 mm² / Ø 4.8 mm	MB-2SKP3-1,5-SSP4/S77/S398 8027974	...-2/2/... 8027975	...-5/5/... 8027976

2-Way Junction-Systems

Y-Splitter

2x Female M8 x 1, with LED - Male M8 x 1, with Cable

Junction box	Y junction, 3/4-pole
Connector	2x female connector, M8 x 1, 3-pole, straight
Grip	plastic, TPU, transparent
Coupling nut/screw	metal, CuZn, channel 1: PTFE/channel 2: nickel-plated
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Connector	male connector, M8 x 1, 4-pole, straight, with cable
Grip	plastic, TPU, blue
Coupling nut/screw	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, black
Contacts	metal, CuZn, gold-plated
Rated voltage	max. 30 V
Ampacity	4 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67
Mechanical lifespan	min. 100 contact durability



		Standard cable-length		
		0,3 m	0,6 m	1 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	MB-2SKP3P3-0,3-SSP4/P00 8027978	...-0,6/0,6/... 8027979	...-1/1/... 8025700
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	MB-2SKP3P3-0,3-SSP4/XOR 8027998	...-0,6/0,6/... 8027999	...-1/1/... 8028000
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	MB-2SKP3P3-0,3-SSP4/S90 8027984	...-0,6/0,6/... 8027985	...-1/1/... 8027986
	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.8 mm	MB-2SKP3P3-0,3-SSP4/S77/S366 8027991	...-0,6/0,6/... 8027992	...-1/1/... 8027993
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	MB-2SKP3P3-0,3-SSP4/S77/S398 8028005	...-0,6/0,6/... 8028006	...-1/1/... 8028007
3-pole 		Standard cable-length		
		1,5 m	2 m	5 m
	PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	MB-2SKP3P3-1,5-SSP4/P00 8027980	...-2/2/... 8027981	...-5/5/... 8027982
	PVC, irradiated, OG 4 x 0.25 mm ² / Ø 4.4 mm	MB-2SKP3P3-1,5-SSP4/XOR 8028001	...-2/2/... 8028002	...-5/5/... 8028003
	PUR/PVC, GY 4 x 0.25 mm ² / Ø 4.4 mm	MB-2SKP3P3-1,5-SSP4/S90 8027987	...-2/2/... 8027988	...-5/5/... 8027989
4-pole 	PUR, halogen-free, GY 4 x 0.34 mm ² / Ø 4.8 mm	MB-2SKP3P3-1,5-SSP4/S77/S366 8027994	...-2/2/... 8027995	...-5/5/... 8027996
	PUR, irradiated, OG 4 x 0.34 mm ² / Ø 4.8 mm	MB-2SKP3P3-1,5-SSP4/S77/S398 8028008	...-2/2/... 8028009	...-5/5/... 8028010



Actuator/Sensor-Junction-Systems

We offer a wide spectrum of passive actuator-/sensor-boxes. These enable the user to collect the signals in the field and to transfer these centrally to the control system. As a result, it is possible to establish a clear and decentralised cabling of the periphery.

Standard-boxes are dust- and waterproof according to IEC 60529

IP67

Boxes with freely selectable slots



Development of customer specific boxes

?

M12x1-Box, pluggable	13.1 – 13.9

M12x1-Box homerun-cable	13.10 – 13.13

M12x1-Box compact type	13.14 – 13.15

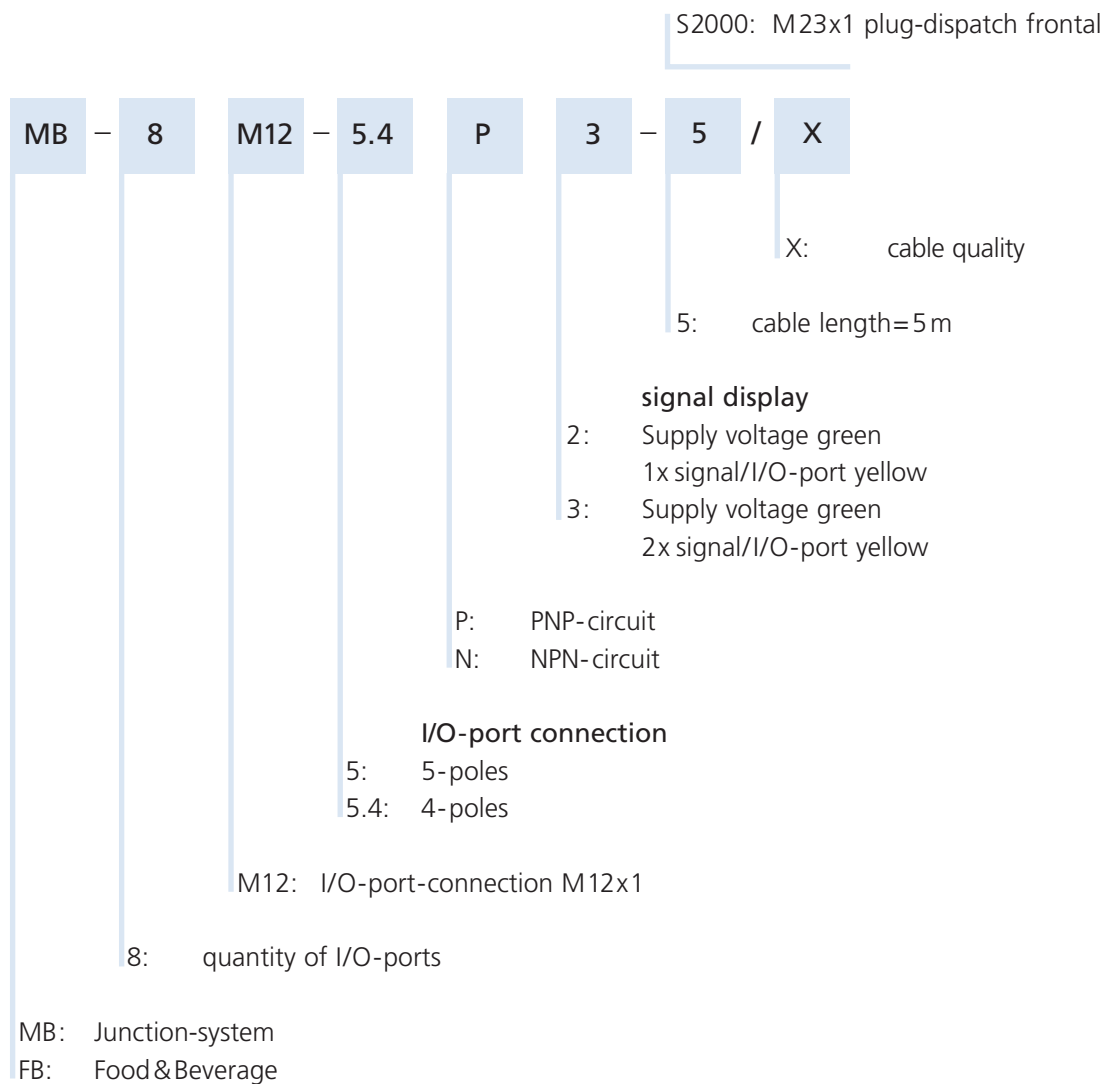
M12x1-Box screw terminal connection	13.16 – 13.22

M12x1-Box homerun-cable, stainless-steel	13.23

M8x1 Ø8mm-Box, pluggable	13.24 – 13.35

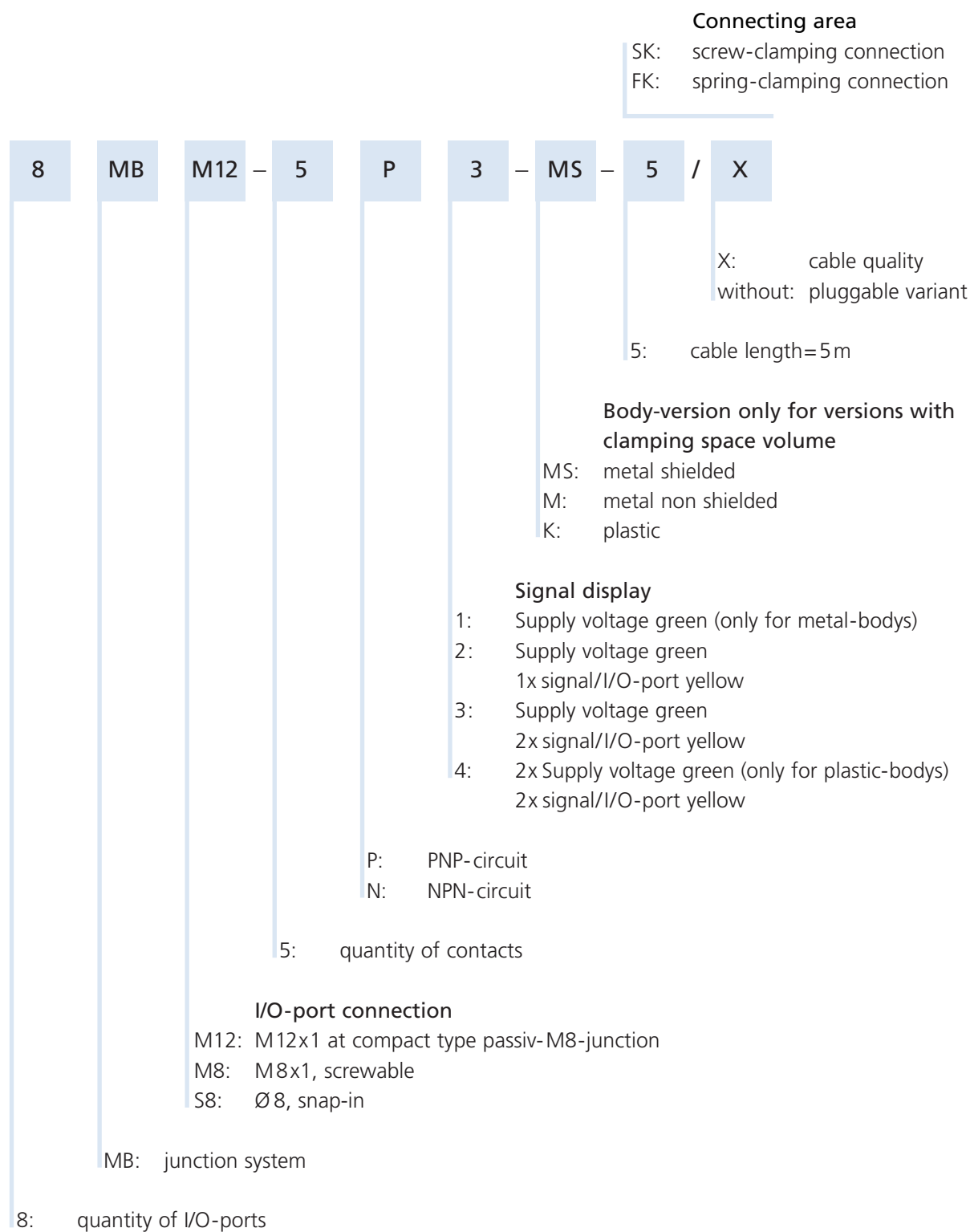
M8x1 Ø8mm-Box, homerun-cable	13.36 – 13.59

Nomenclature Actuator/Sensor-Junction Systems M12x1pluggable or with homerun-cable



Non appropriate will be let out.

Nomenclature Actuator/Sensor-Junction Systems M8x1/Ø8 mm and M12x1 compact type or with screw terminal

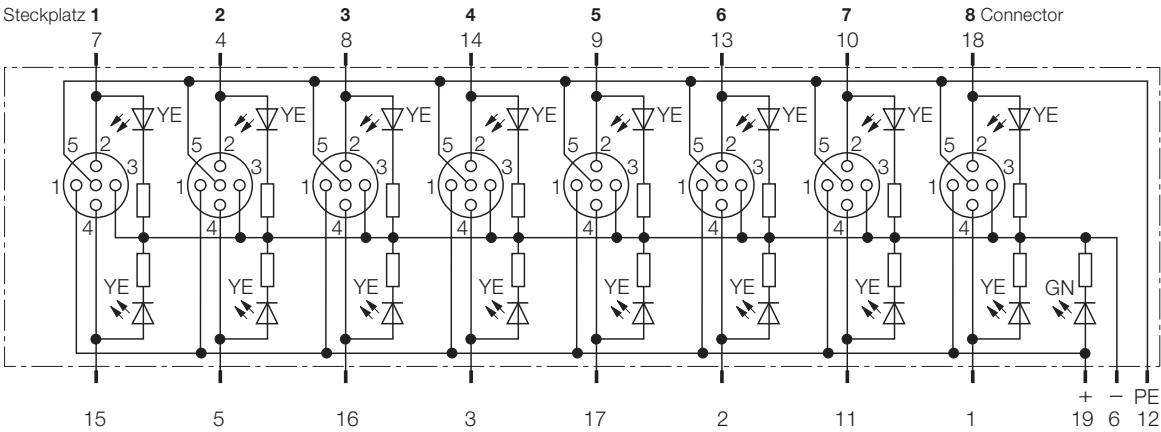
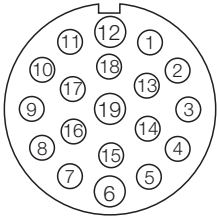
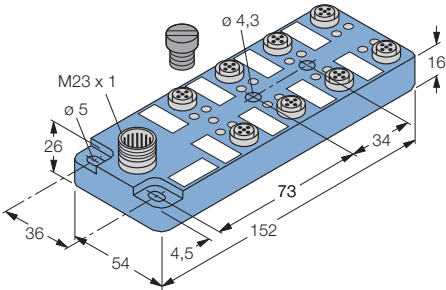


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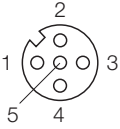
Actuator-/Sensor-Junction-Systems M12 x 1
8-Ports, I/O-Ports 4-Pole + Ground,
Connector M23 x 1, 19-Pole



Actuator/sensor box	8 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, Gd-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M23 x 1, 19-pole
Flange housing	metal, Gd-Zn, nickel-plated
Contact carriers	plastic, PBT, white
Contacts	metal, CuZn, gold-plated
Flange connector seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



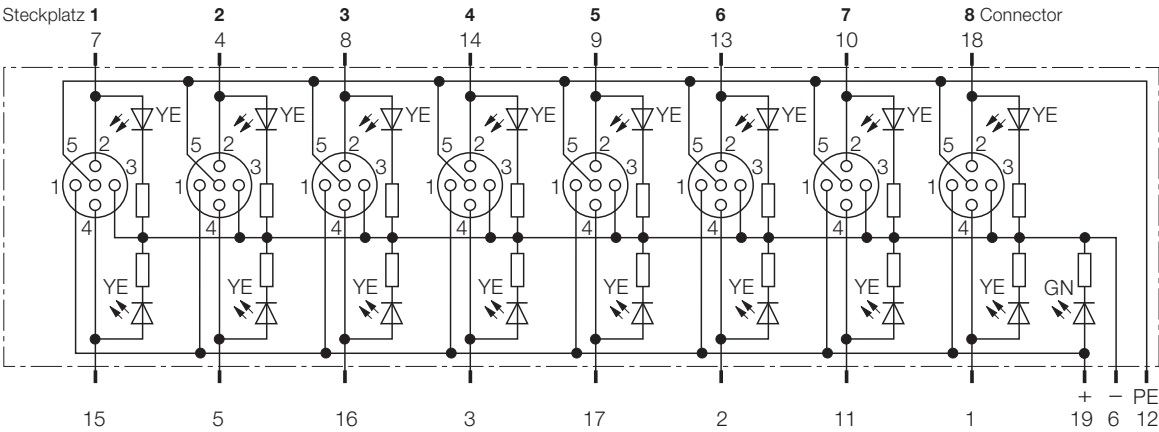
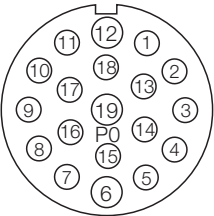
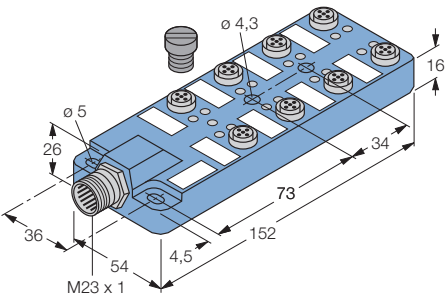
Adequate sealing-plugs > order-number 8000004
Adequate labels > order-number 8015002

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole + ground 	Wire-construction Adequate connecting cables > chapter M23 x 1	MB-8M12-5P3 8024412

Actuator-/Sensor-Junction-Systems M12 x 1
8-Ports, I/O-Ports 4-Pole + Ground,
Side Connector M23 x 1, 19-Pole

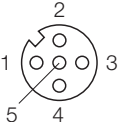


Actuator/sensor box	8 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M23 x 1, 19-pole
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, white
Contacts	metal, CuZn, gold-plated
Flange connector seal	plastic, NBR
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



Adequate sealing-plugs > order-number 8000004
Adequate labels > order-number 8015002

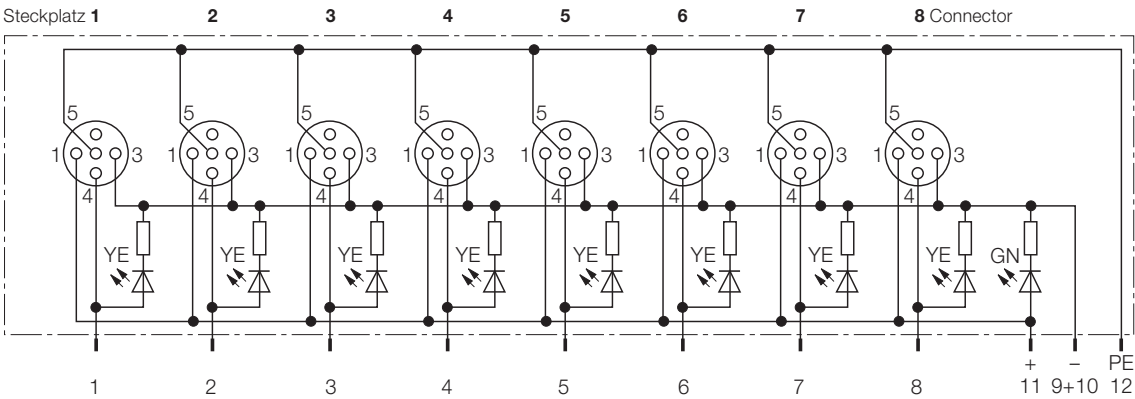
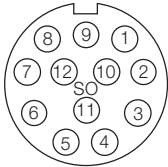
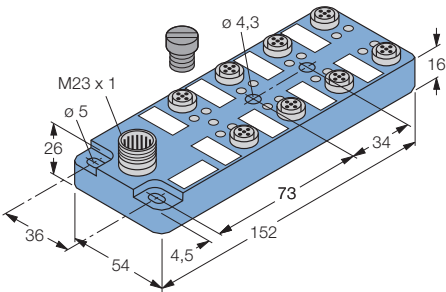
Standard cable-length	
Coding	Cable-quality
Type-designation Order-number	
4-pole + ground	Adequate connecting cables > chapter M23 x 1
MB-8M12-5P3/S2000 8025620	



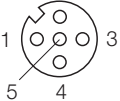
Actuator-/Sensor-Junction-Systems M12 x 1 **8-Ports, I/O-Ports 3-Pole + Ground,** **Connector M23 x 1, 12-Pole**



Actuator/sensor box	8 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 3-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M23 x 1, 12-pole
Flange housing	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, white
Contacts	metal, CuZn, gold-plated
Flange connector seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



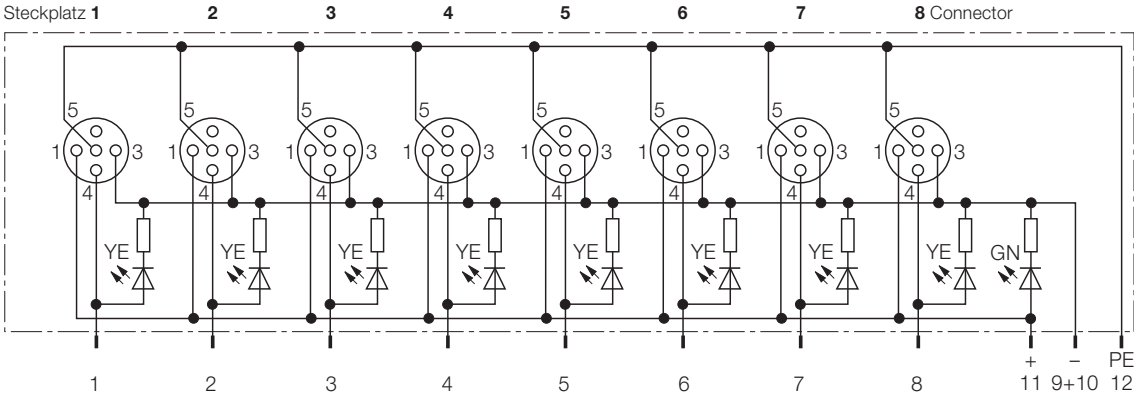
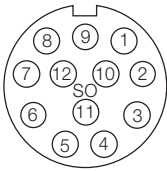
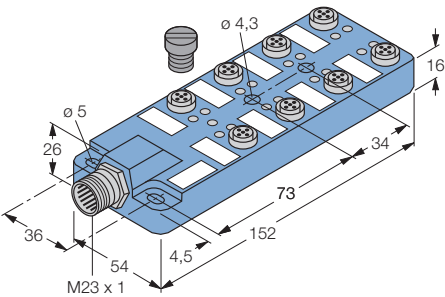
Adequate sealing-plugs > order-number 8000004
 Adequate labels > order-number 8015002

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole + ground 	Wire-construction Adequate connecting cables > chapter M23 x 1	MB-8M12-5.4P2 8024413

Actuator-/Sensor-Junction-Systems M12 x 1
8-Ports, I/O-Ports 3-Pole + Ground,
Side Connector M23 x 1, 12-Pole



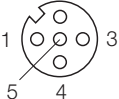
Actuator/sensor box	8 ports, with side connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 3-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M23 x 1, 12-pole
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, white
Contacts	metal, CuZn, gold-plated
Flange connector seal	plastic, NBR
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



Adequate sealing-plugs > order-number 8000004
Adequate labels > order-number 8015002

Standard cable-length	
Type-designation	Order-number
MB-8M12-5.4P2/S2000 8025619	

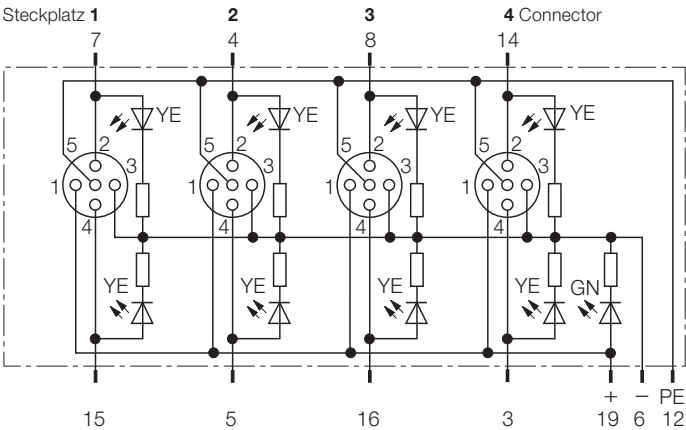
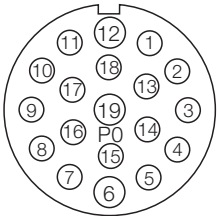
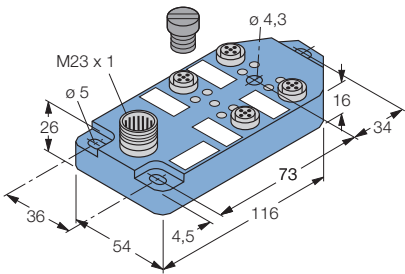
Coding	Cable-quality
Wire-construction	
3-pole + ground	Adequate connecting cables > chapter M23 x 1



Actuator-/Sensor-Junction-Systems M12 x 1 **4-Ports, I/O-Ports 4-Pole + Ground,** **Connector M23 x 1, 19-Pole**



Actuator/sensor box	4 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, Gd-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M23 x 1, 19-pole
Flange housing	metal, Gd-Zn, nickel-plated
Contact carriers	plastic, PBT, white
Contacts	metal, CuZn, gold-plated
Flange connector seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



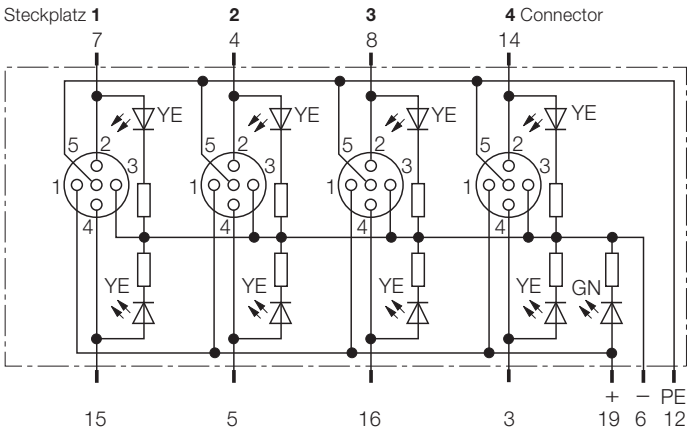
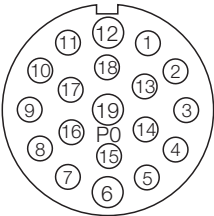
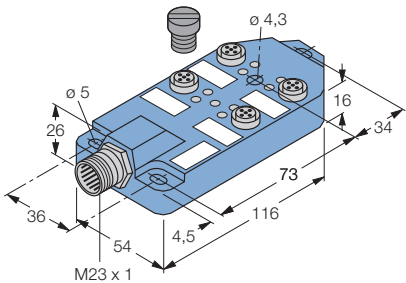
Adequate sealing-plugs > order-number 8000004
 Adequate labels > order-number 8015002

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole + ground 	Wire-construction Adequate connecting cables > chapter M23 x 1	MB-4M12-5P3 8024414

Actuator-/Sensor-Junction-Systems M12 x 1
4-Ports, I/O-Ports 4-Pole + Ground,
Side Connector M23 x 1, 19-Pole



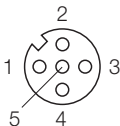
Actuator/sensor box	4 ports, with side connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M23 x 1, 19-pole
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, white
Contacts	metal, CuZn, gold-plated
Flange connector seal	plastic, NBR
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



dequate sealing-plugs > order-number 8000004
Adequate labels > order-number 8015002

Standard cable-length	
Type-designation	Order-number
MB-4M12-5P3/S2000 8025617	

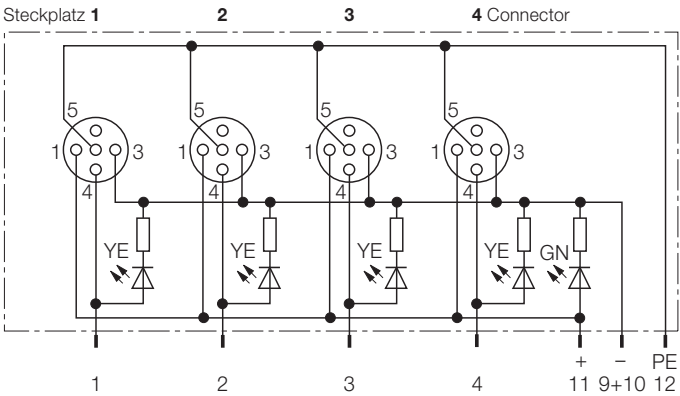
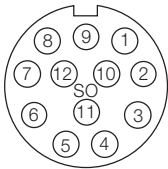
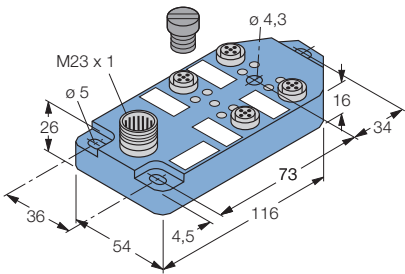
Coding	Cable-quality
Wire-construction	
4-pole + ground	Adequate connecting cables > chapter M23 x 1



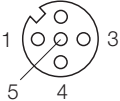
Actuator-/Sensor-Junction-Systems M12 x 1
4-Ports, I/O-Ports 3-Pole + Ground,
Connector M23 x 1, 12-Pole



Actuator/sensor box	4 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 3-pole + ground
Thread insert	metal, Gd-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M23 x 1, 12-pole
Flange housing	metal, Gd-Zn, nickel-plated
Contact carriers	plastic, PBT, white
Contacts	metal, CuZn, gold-plated
Flange connector seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



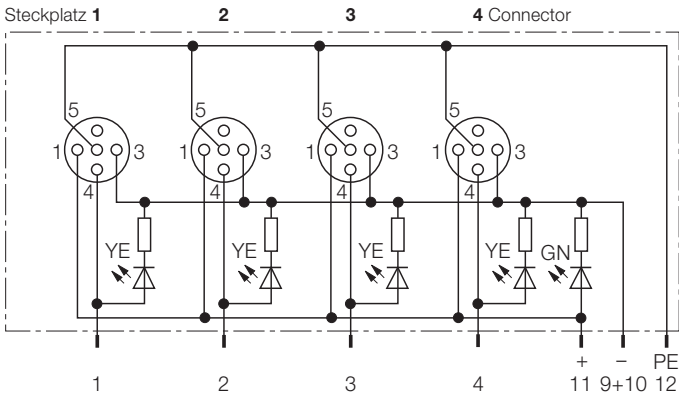
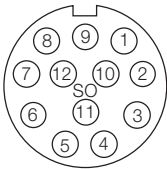
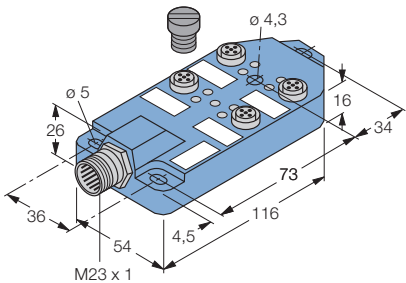
Adequate sealing-plugs > order-number 8000004
Adequate labels > order-number 8015002

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole + ground 	Wire-construction Adequate connecting cables > chapter M23 x 1	MB-4M12-5.4P2 8024415

Actuator-/Sensor-Junction-Systems M12 x 1
4-Ports, I/O-Ports 3-Pole + Ground,
Side Connector M23 x 1, 12-Pole



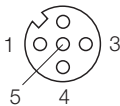
Actuator/sensor box	4 ports, with side connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 3-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M23 x 1, 12-pole
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, white
Contacts	metal, CuZn, gold-plated
Flange connector seal	plastic, NBR
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



Adequate sealing-plugs > order-number 8000004
Adequate labels > order-number 8015002

Standard cable-length	
Type-designation	Order-number
MB-4M12-5.4P2/S2000 8025612	

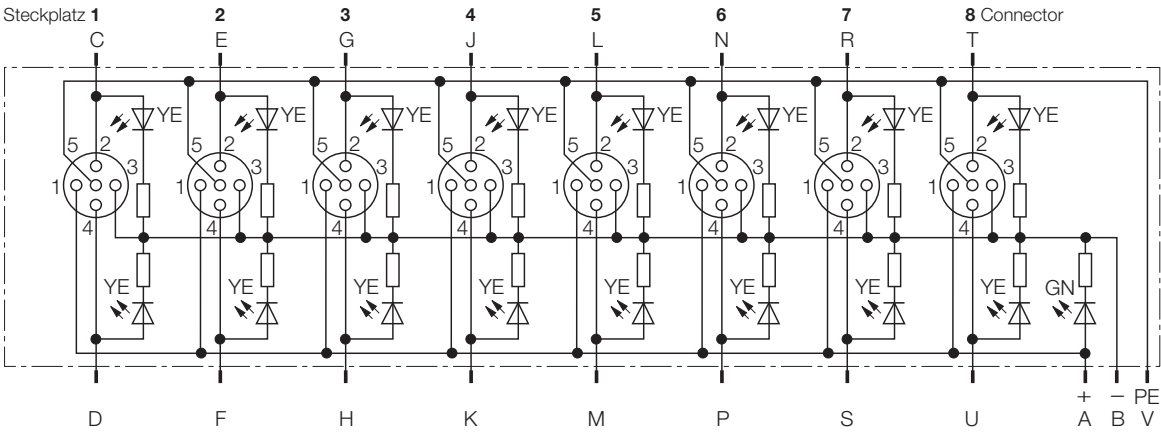
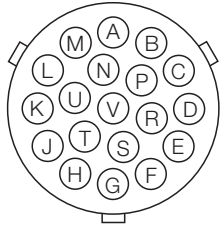
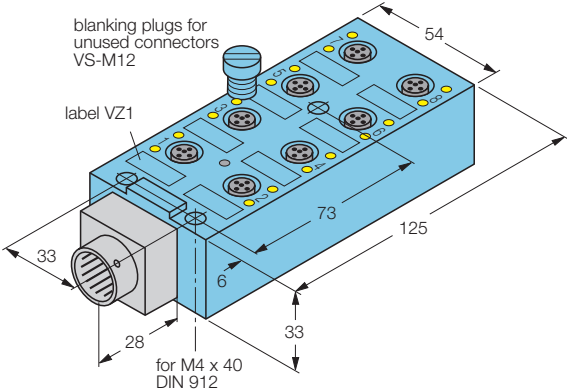
Coding	Cable-quality
Wire-construction	
3-pole + ground	Adequate connecting cables > chapter M23 x 1



Actuator-/Sensor-Junction-Systems M12 x 1
8-Ports, I/O-Ports 4-Pole + Ground,
Bayonet Nut Connector, 19-Pole



Actuator/sensor box	8 ports, with bayonet nut connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	bayonet nut connection - Burndy, 19-pole
Contact carriers	plastic, PA GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



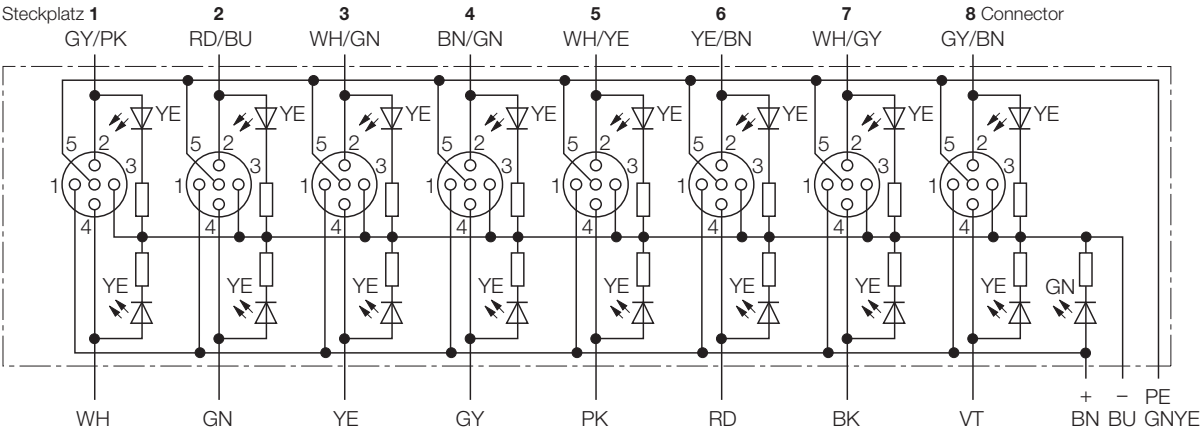
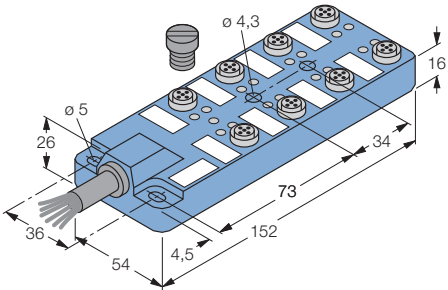
Adequate sealing-plugs > order-number 8000004
Adequate labels > order-number 8008154 (VZ1)

Standard cable-length		Type-designation Order-number
Coding	Cable-quality Wire-construction	
4-pole + ground 	Adequate connecting cables > chapter M23 x 1	8FKS5P3 8008720

Actuator-/Sensor-Junction-Systems M12 x 1
8-Ports, I/O-Ports 4-Pole + Ground,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^8 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



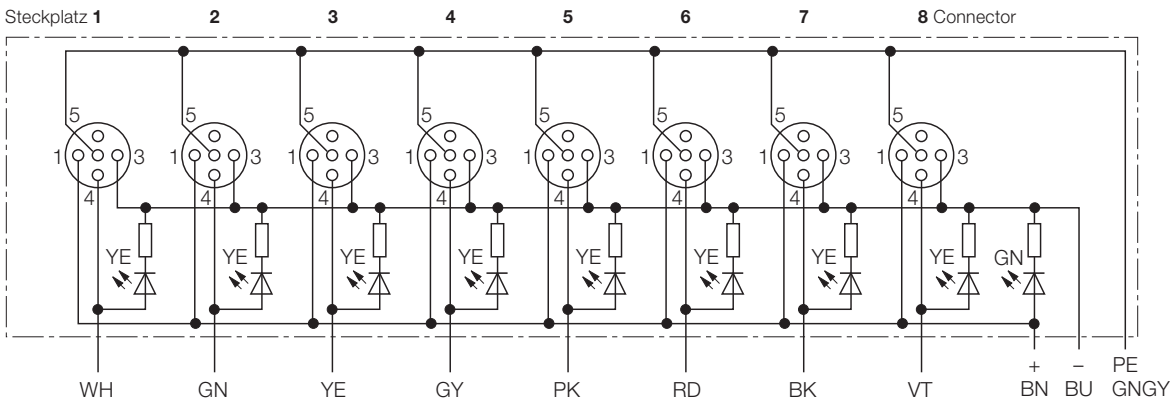
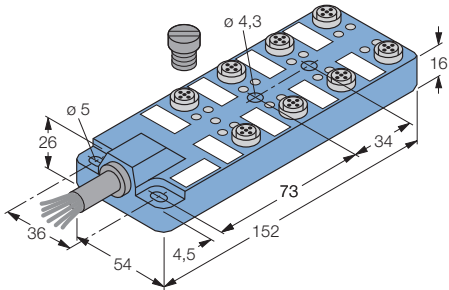
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Adequate labels > order-number 8015002

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole + ground 	PUR, halogen-free, BK 16 x 0.34 mm ² / 3 x 1 mm ² / Ø 9.7 mm	MB-8M12-5P3-2/S366 8024416	MB-8M12-5P3-5/S366 8024417	MB-8M12-5P3-10/S366 8024418

Actuator-/Sensor-Junction-Systems M12 x 1
8-Ports, I/O-Ports 3-Pole + Ground,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 3-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



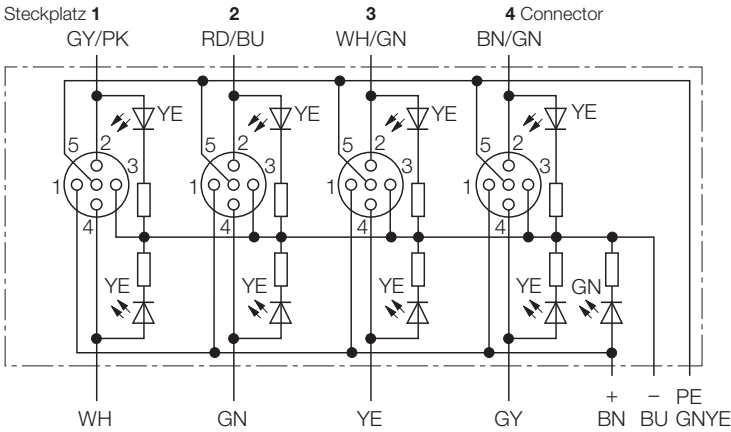
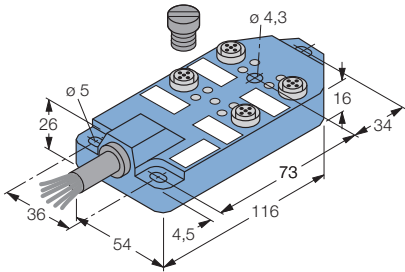
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 Adequate labels > order-number 8015002

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
3-pole + ground 	PUR, halogen-free, BK 8 x 0.34 mm ² / 3 x 1 mm ² / Ø 8.2 mm	MB-8M12-5.4P2-2/S366 8024419	MB-8M12-5.4P2-5/S366 8024420	MB-8M12-5.4P2-10/S366 8024421

Actuator-/Sensor-Junction-Systems M12 x 1
4-Ports, I/O-Ports 4-Pole + Ground,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^8 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



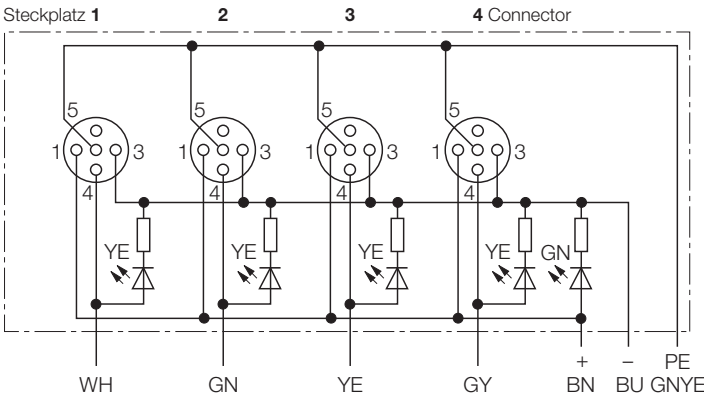
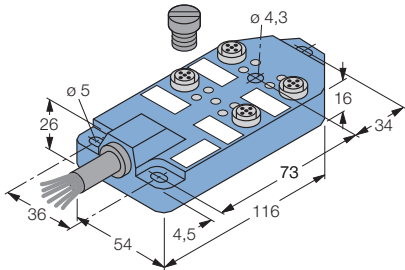
Adequate sealing-plugs > order-number 8000004
Adequate labels > order-number 8015002

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole + ground 	PUR, halogen-free, BK 8 x 0.34 mm ² / 3 x 1 mm ² / Ø 8.2 mm	MB-4M12-5P3-2/S366 8024422	MB-4M12-5P3-5/S366 8024423	MB-4M12-5P3-10/S366 8024424

Actuator-/Sensor-Junction-Systems M12 x 1 **4-Ports, I/O-Ports 3-Pole + Ground,** **with Homerun-Cable**



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 3-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



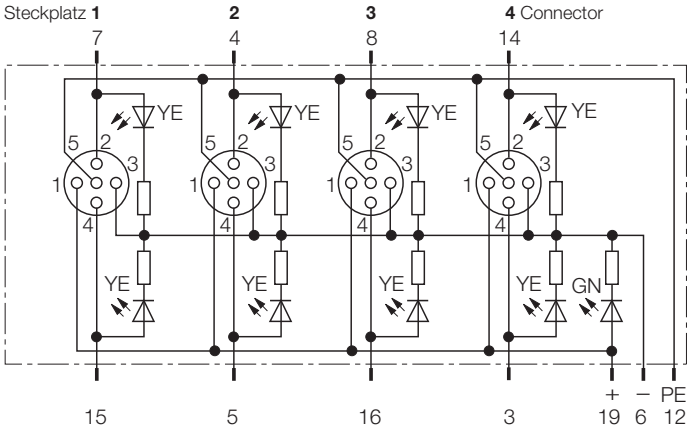
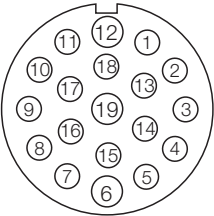
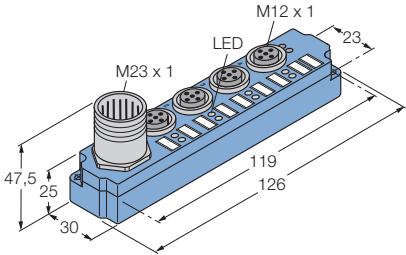
Adequate sealing-plugs > order-number 8000004
 Adequate labels > order-number 8015002

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
3-pole + ground 	PUR, halogen-free, BK 4 x 0.34 mm ² / 3 x 1 mm ² / Ø 7.5 mm	MB-4M12-5.4P2-2/S366 8024425	MB-4M12-5.4P2-5/S366 8024426	MB-4M12-5.4P2-10/S366 8024427

Actuator-/Sensor-Junction-Systems M12 x 1
4-Ports, I/O-Ports 4-Pole + Ground, Compact Type,
Connector M23 x 1, 19-Pole



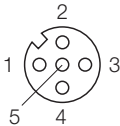
Actuator/sensor box	4 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	stainless steel, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M23 x 1, 19-pole
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, grey
Contacts	metal, CuZn, gold-plated
Flange connector seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



Adequate sealing-plugs > order-number 8000004
Adequate labels > order-number 8011349

Standard cable-length	
Type-designation	Order-number
4MBM12-5P3-M23-19 8018782	

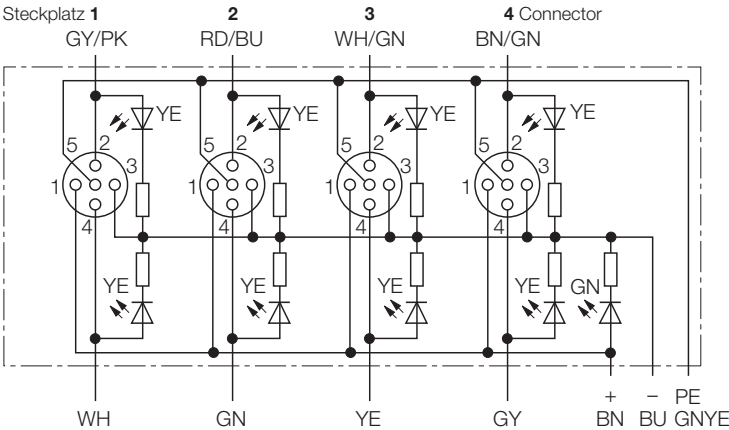
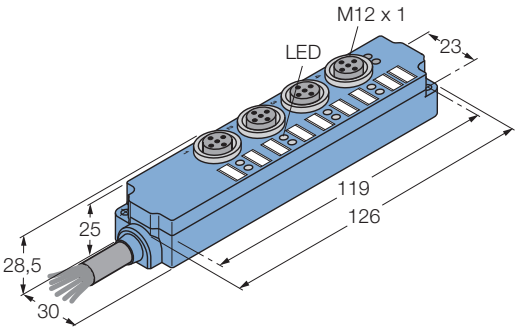
Coding	Cable-quality
4-pole + ground	Wire-construction
	Adequate connecting cables > chapter M23 x 1



Actuator-/Sensor-Junction-Systems M12 x 1 **4-Ports, I/O-Ports 4-Pole + Ground, Compact Type,** **with Homerun-Cable**



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



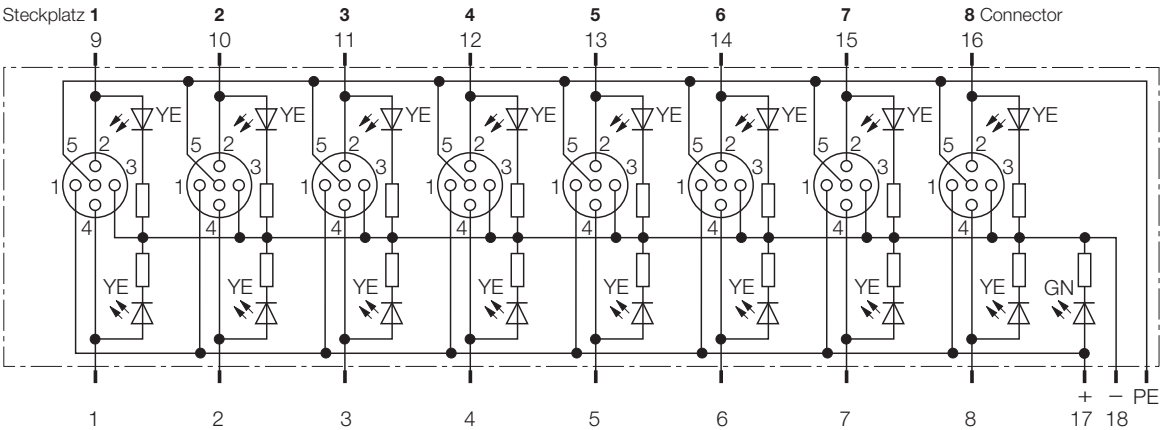
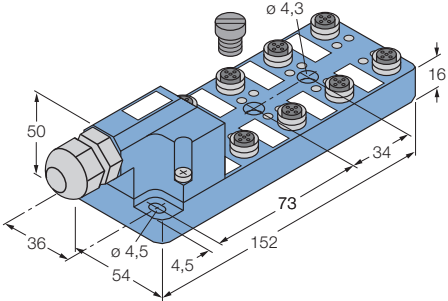
Adequate sealing-plugs > order-number 8000004
 Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
4-pole + ground 	Wire-construction PUR, halogen-free, BK 8 x0.34 mm ² / Ø 8.8 mm	4MBM12-5P3-2/S366 8019495	4MBM12-5P3-5/S366 8019496	4MBM12-5P3-10/S366 8019497

Actuator-/Sensor-Junction-Systems M12 x 1
8-Ports, I/O-Ports 4-Pole + Ground,
M12 Push-Pull-Capable,
Clamping-Space, Plastic-Type



Actuator/sensor box	8 ports, with clamping-space
Housing	plastic, PA 6 GF, blue
Clamp terminal housing seal	plastic, PUR, laid in foam
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Connection mode	screw terminals
Core cross-section/Clamping ability	0.34...1.5 mm ²
External diameter of cable	max. 12 mm
Included in scope of supply	set of labelling plates, two blanking plugs each



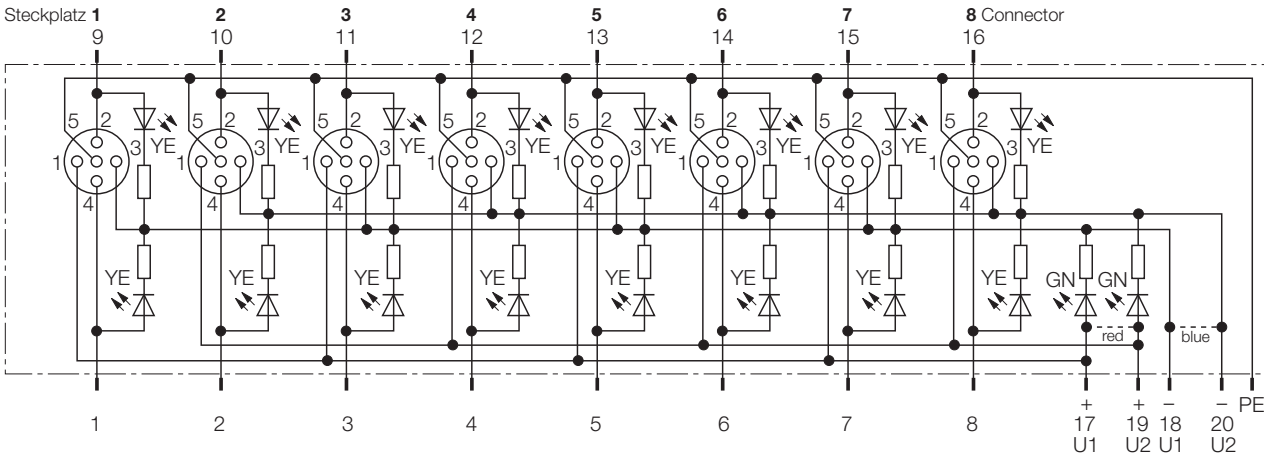
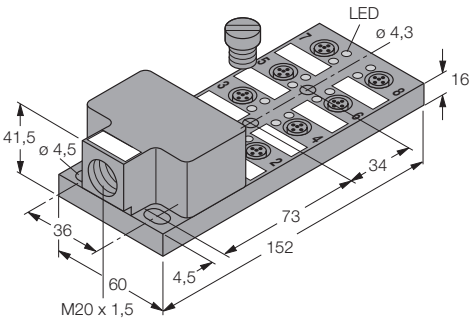
Adequate sealing-plugs > order-number 8000004
Adequate labels > order-number 8015002

Standard cable-length	
Coding	Cable-quality
4-pole + ground 	Wire-construction
	Type-designation Order-number
	MB-8M12-5P3-K-SK 8024428

Actuator-/Sensor-Junction-Systems M12 x 1 **8-Ports, I/O-Ports 4-Pole + Ground,** **Clamping-Space, Plastic-Type**



Actuator/sensor box	8 ports, with clamping-space
Housing	plastic, PBT, black
Clamp terminal housing seal	plastic, PUR, laid in foam
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Connection mode	screw terminals, also available with cage-clamp terminals
Core cross-section/Clamping ability	0.34...1.5 mm ²
External diameter of cable	max. 11 mm
Included in scope of supply	set of labelling plates, two blanking plugs each



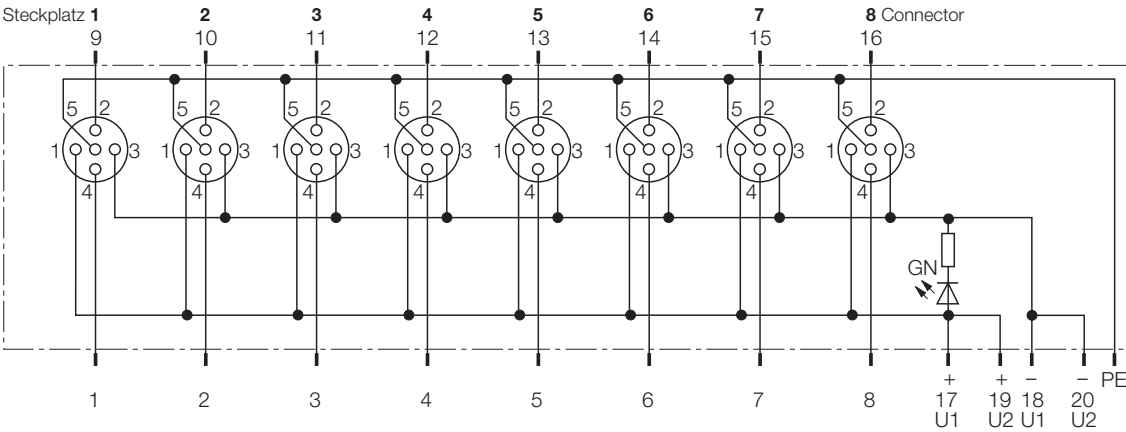
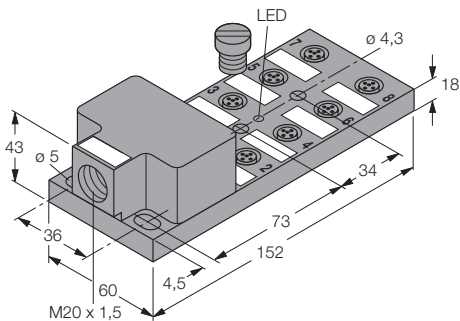
Adequate sealing-plugs > order-number 8000004
 Adequate labels > order-number 8015002

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole + ground 	Wire-construction	8MB12-5P4-K-SK 8018198

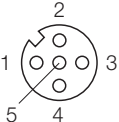
Actuator-/Sensor-Junction-Systems M12 x 1
8-Ports, I/O-Ports 4-Pole + Ground,
Clamping-Space, Metal-Type

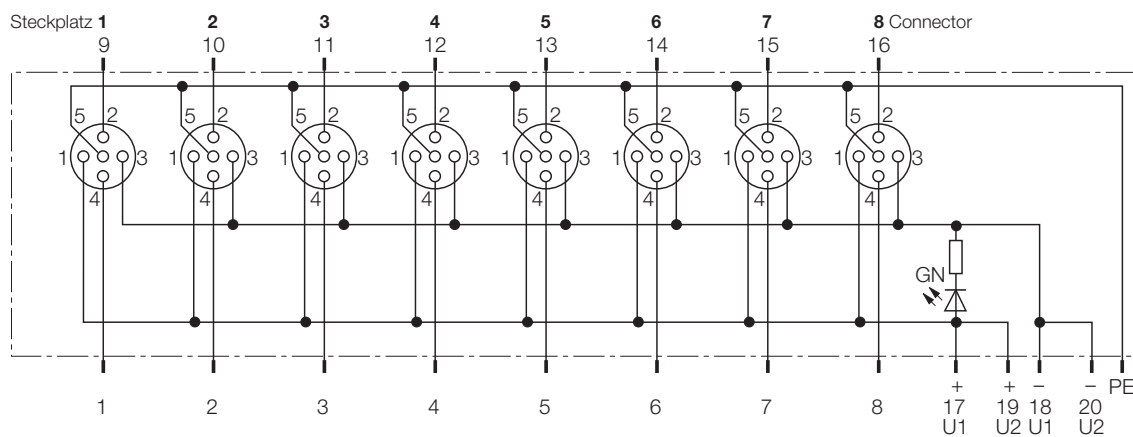


Actuator/sensor box	8 ports, with clamping-space
Housing	metal, GD-Zn, silver
Clamp terminal housing seal	plastic, PUR, laid in foam
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Connection mode	screw terminals, also available with cage-clamp terminals
Core cross-section/Clamping ability	0.34...1.5 mm ²
External diameter of cable	max. 11 mm
Included in scope of supply	set of labelling plates, two blanking plugs each



Adequate sealing-plugs > order-number 8000004
Adequate labels > order-number 8015002

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole + ground 	Wire-construction	8MB12-5P1-M-SK 8018199

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Edition: 11.2008

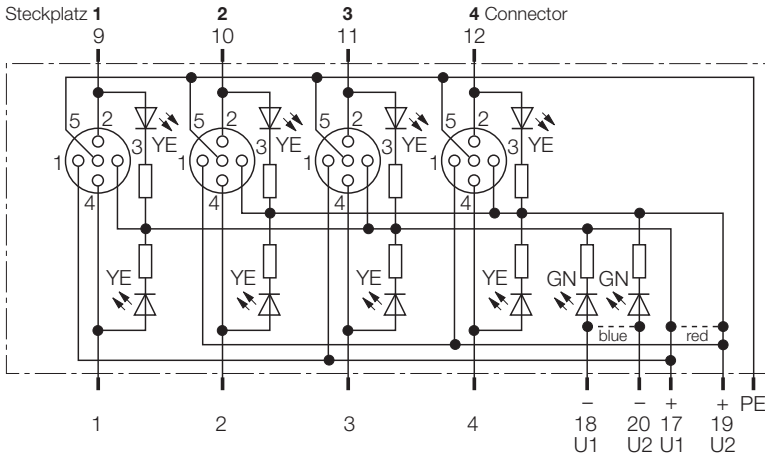
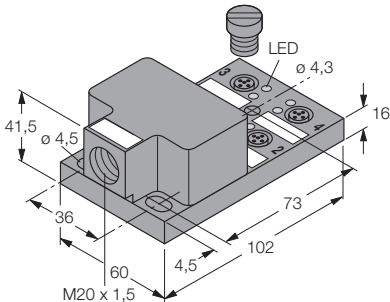
Standard cable-length

Coding	Cable-quality	Type-designation
	Wire-construction	Order-number
4-pole + ground 		8MB12-5P1-MS-SK 8018200

Actuator-/Sensor-Junction-Systems M12 x 1
4-Ports, I/O-Ports 4-Pole + Ground,
Clamping-Space, Plastic-Type



Actuator/sensor box	4 ports, with clamping-space
Housing	plastic, PBT, black
Clamp terminal housing seal	plastic, PUR, laid in foam
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Connection mode	screw terminals, also available with cage-clamp terminals
Core cross-section/Clamping ability	0.34...1.5 mm ²
External diameter of cable	max. 11 mm
Included in scope of supply	set of labelling plates, two blanking plugs each



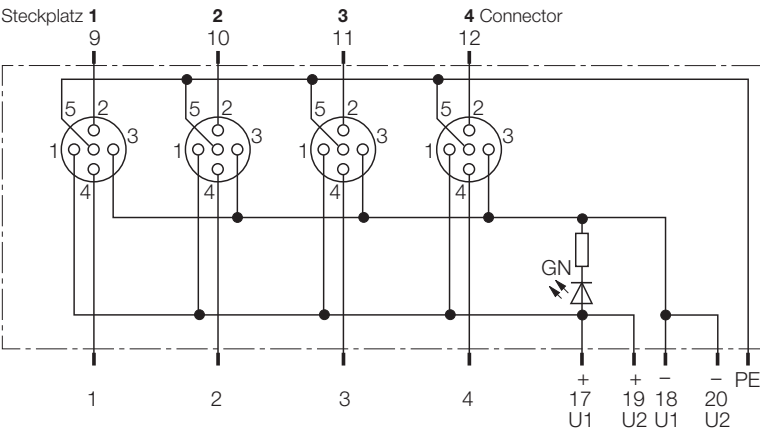
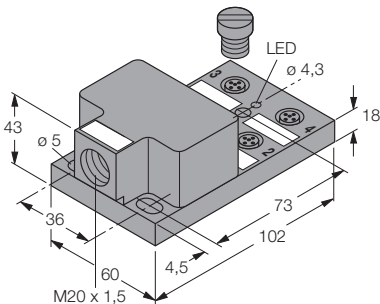
Adequate sealing-plugs > order-number 8000004
 Adequate labels > order-number 8015002

		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole + ground 		4MB12-5P4-K-SK 8018204

Actuator-/Sensor-Junction-Systems M12 x 1 **4-Ports, I/O-Ports 4-Pole + Ground,** **Clamping-Space, Metal-Type**



Actuator/sensor box	4 ports, with clamping-space
Housing	metal, GD-Zn, silver
Clamp terminal housing seal	plastic, PUR, laid in foam
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Switching function	npn
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Connection mode	screw terminals, also available with cage-clamp terminals
Core cross-section/Clamping ability	0.34...1.5 mm ²
External diameter of cable	max. 11 mm
Included in scope of supply	set of labelling plates, two blanking plugs each



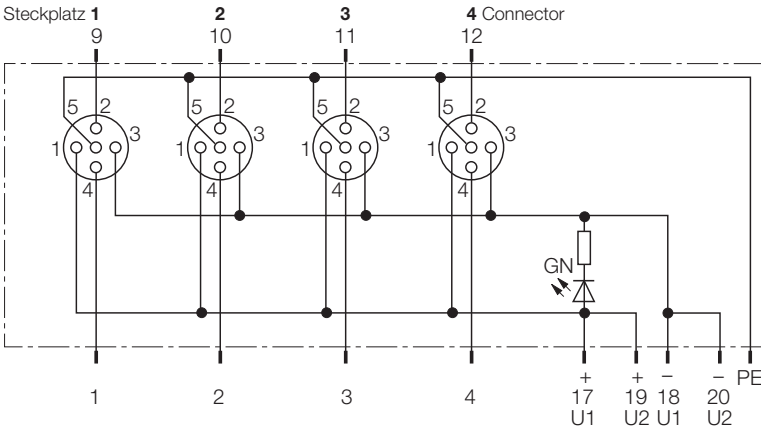
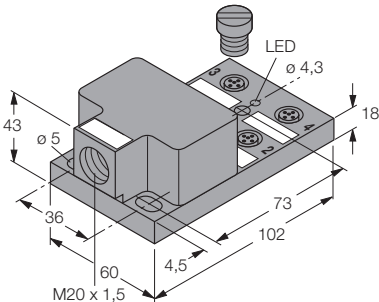
Adequate sealing-plugs > order-number 8000004
 Adequate labels > order-number 8015002

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole + ground 	Wire-construction	4MB12-5P1-M-SK 8018205

Actuator-/Sensor-Junction-Systems M12 x 1 4-Ports, I/O-Ports 4-Pole + Ground, Clamping-Space, Shielded



Actuator/sensor box	4 ports, with clamping-space
Housing	metal, GD-Zn, silver
Clamp terminal housing seal	plastic, PUR, laid in foam
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 9 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Switching function	pnp
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Connection mode	screw terminals, also available with cage-clamp terminals
Core cross-section/Clamping ability	0.34...1.5 mm ²
External diameter of cable	max. 11 mm
Included in scope of supply	set of labelling plates, two blanking plugs each



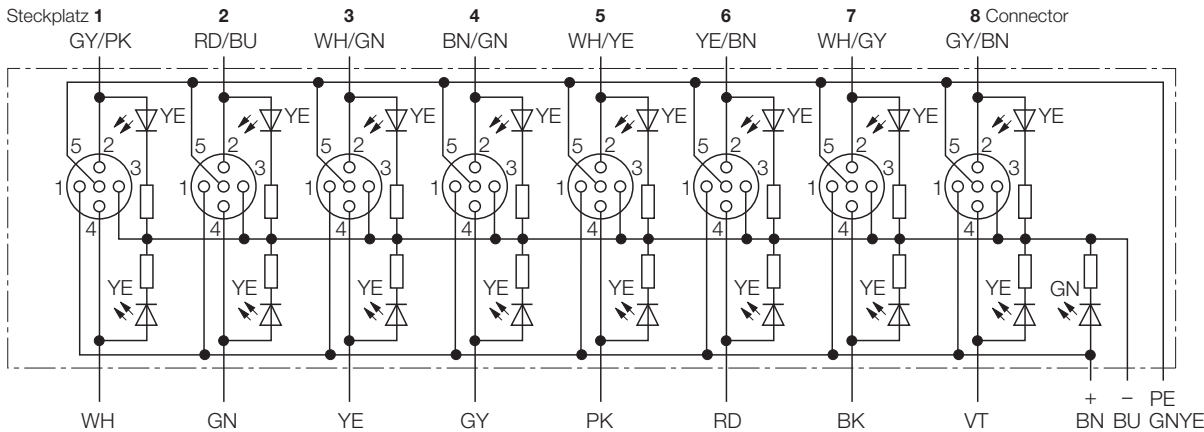
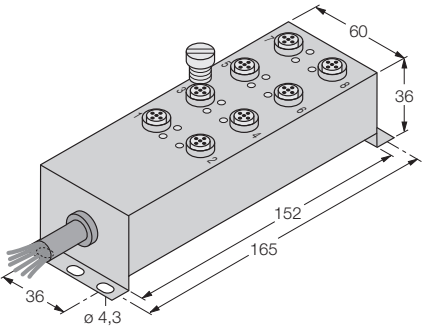
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 Adequate labels > order-number 8015002

		Standard cable-length
Coding	Cable-quality Wire-construction	Type-designation Order-number
4-pole + ground		4MB12-5P1-MS-SK 8018206

Actuator-/Sensor-Junction-Systems M12 x 1
8-Ports, I/O-Ports 4-Pole + Ground,
with Homerun-Cable, Stainless-Steel-Type



Actuator/sensor box	8 ports, with homerun-cable
Housing	stainless steel, 1.4404, silver
I/O port	female connector, M12 x 1, 4-pole + ground
Thread insert	stainless steel, 1.4404
Contact carriers	plastic, PVC, black
Contacts	metal, CuZn, gold-plated
Seal	plastic, EPDM
Rated voltage	10 ...30 V
Ampacity	4 A per signal contact, total current 12 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	2
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn
Ambient temperature junction	0 ... +60 °C
Degree of protection	IP69K, only in screwed status
Mechanical lifespan	min. 50 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



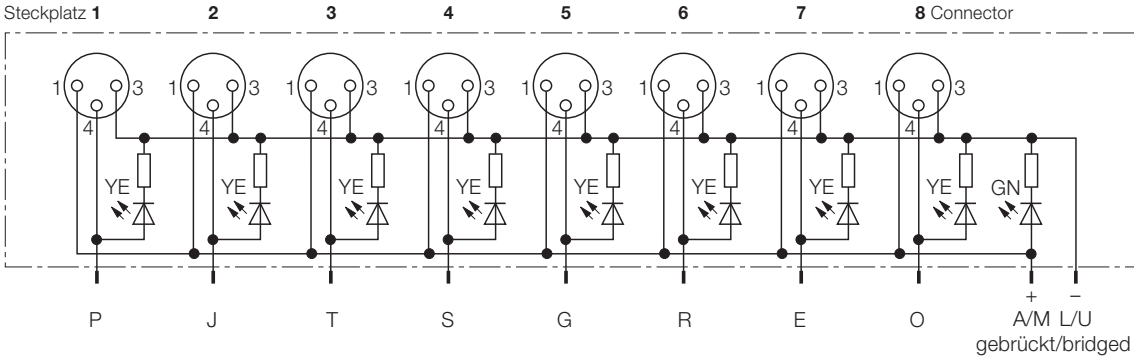
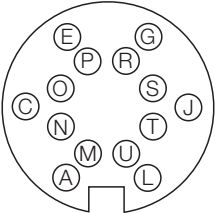
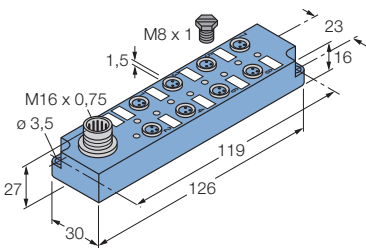
Adequate connecting cables > chapter Food & Beverage Plus

		Standard cable-length		
		15 m		
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole + ground	PVC, BK 16 x0.5 mm ² / Ø 11.6 mm	FB-8M12-5P3-15/P00 8024411		

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole,
Connector M16 x 0,75, 14-Pole

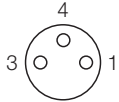


Actuator/sensor box	8 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M16 x 0.75, 14-pole
Flange housing	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^8 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnP, npN version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



Adequate sealing-plugs > order-number 8015075
Adequate labels > order-number 8011349

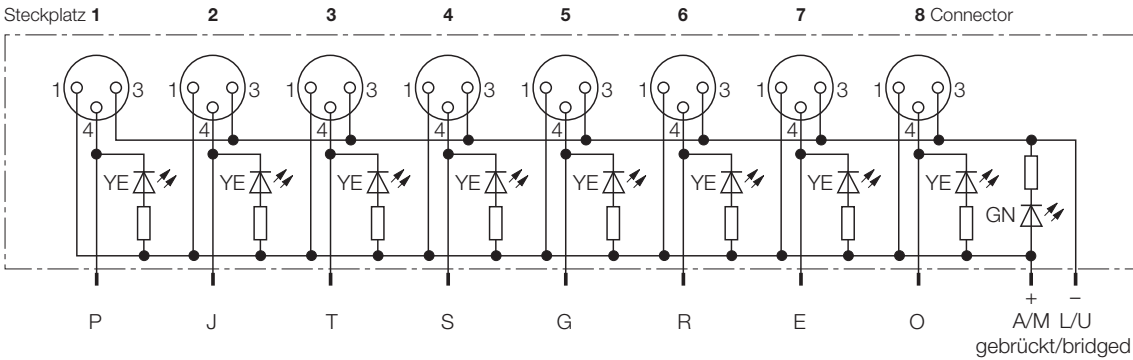
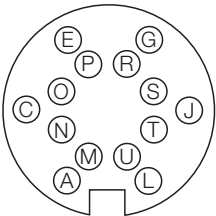
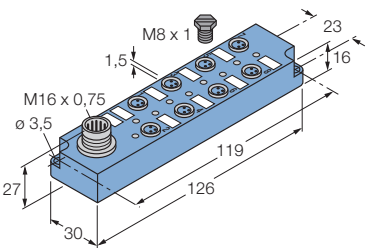
Standard cable-length	
Coding	Cable-quality
Type-designation Order-number	
3-pole	Adequate connecting cables > chapter M16 x 0,75
8MBM8-3P2 8017721	



Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole,
Connector M16 x 0,75, 14-Pole



Actuator/sensor box	8 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M16 x 0.75, 14-pole
Flange housing	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



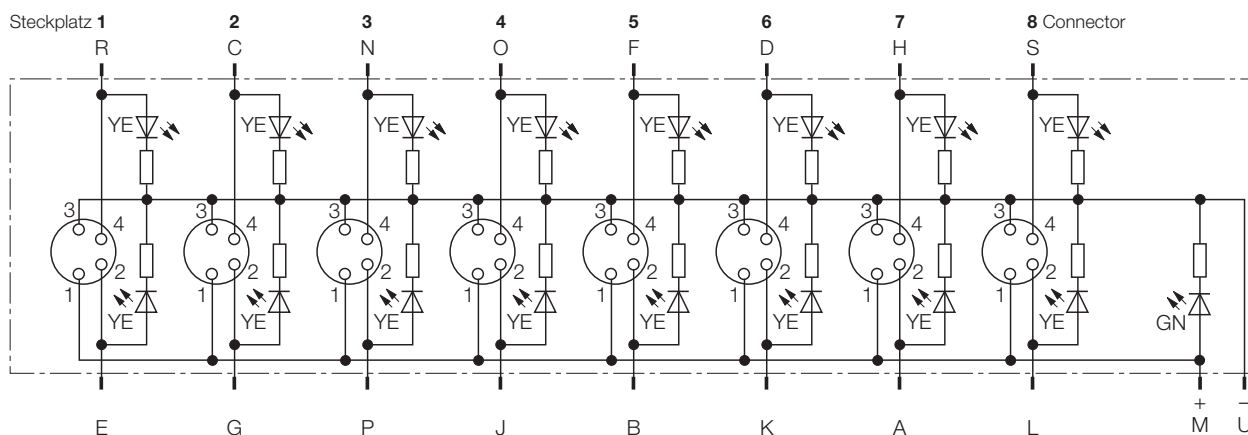
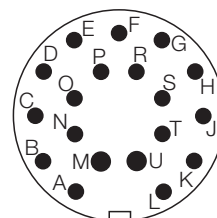
Edition: 11.2008
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Adequate sealing-plugs > order-number 8015075
Adequate labels > order-number 8011349

Standard cable-length		Type-designation Order-number
Coding	Cable-quality Wire-construction	
3-pole 	Adequate connecting cables > chapter M23 x 1	8MBM8-3N2 8021608

Technical drawing of a blue metal rail with the following dimensions and labels:

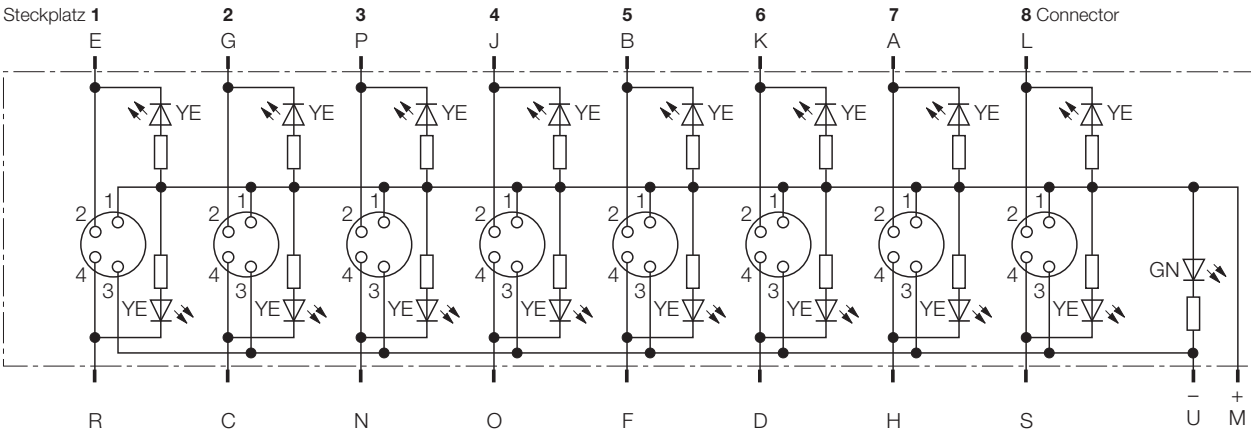
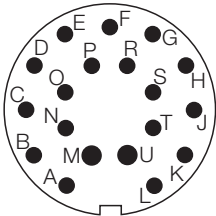
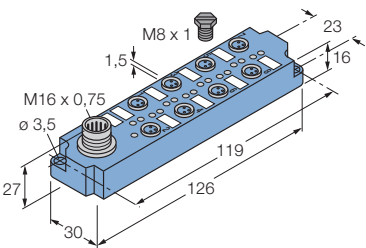
- Overall length: 126
- Overall width: 23
- Height of the rail body: 16
- Distance between mounting holes: 1,5
- Mounting hole size: M8 x 1
- Threaded hole size: M16 x 0,75
- Threaded hole diameter: $\varnothing 3,5$
- Distance from end to first threaded hole: 27
- Distance between threaded holes: 30
- Distance from end to last threaded hole: 119



Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 4-Pole,
Connector M16 x 0,75, 19-pole



Actuator/sensor box	8 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 4-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M16 x 0.75, 19-pole
Flange housing	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



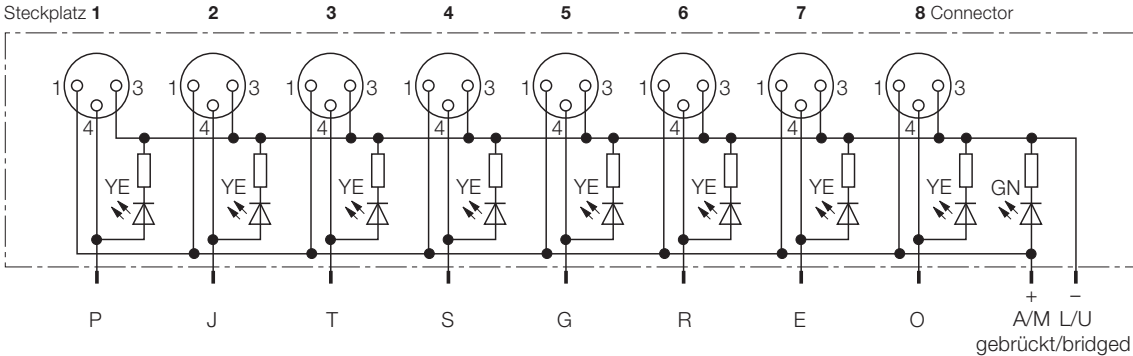
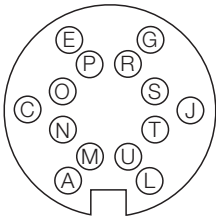
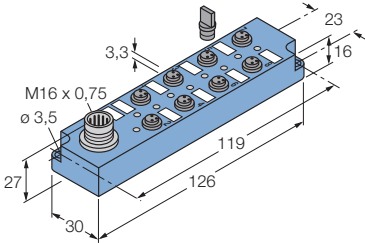
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Adequate labels > order-number 8011349

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole 	Wire-construction Adequate connecting cables > chapter M16 x 0,75	8MBM8-4N3 8025645

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole, Snap-In,
Connector M16 x 0,75, 14-Pole



Actuator/sensor box	8 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Male flange connector	M16 x 0.75, 14-pole
Flange housing	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁸ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



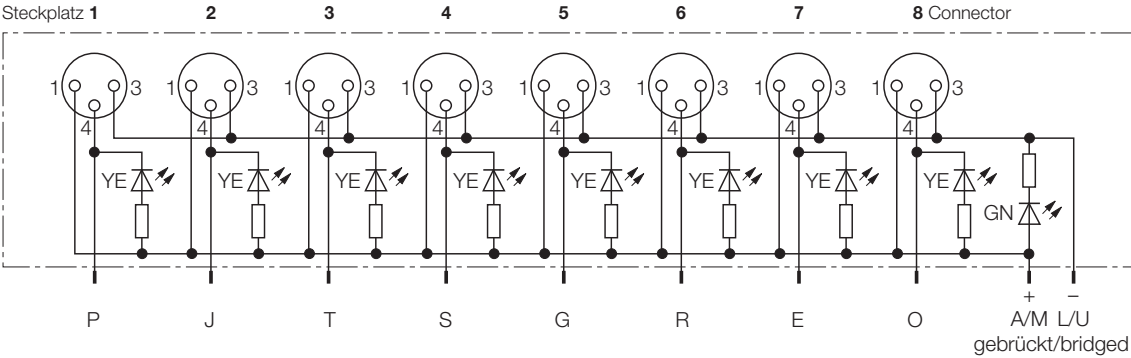
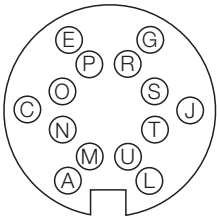
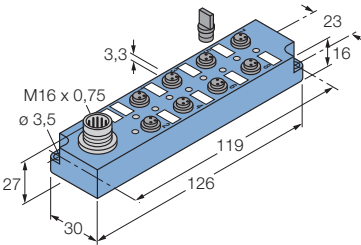
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 Adequate labels > order-number 8011349

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole 	Wire-construction Adequate connecting cables > chapter M16 x 0,75	8MBS8-3P2 8017724

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole, Snap-In,
Connector M16 x 0,75, 14-Pole



Actuator/sensor box	8 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Male flange connector	M16 x 0.75, 14-pole
Flange housing	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



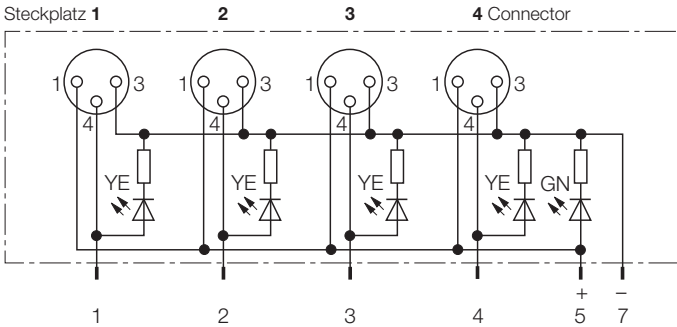
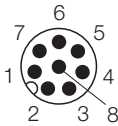
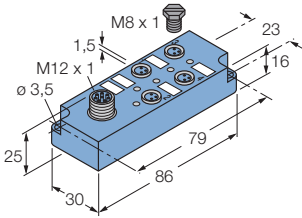
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 Adequate labels > order-number 8011349

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole 	Wire-construction Adequate connecting cables > chapter M16 x 0,75	8MBS8-3N2 8021610

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 3-Pole,
Connector M12 x 1, 8-Pole



Actuator/sensor box	4 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M12 x 1, 8-pole
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, blue
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



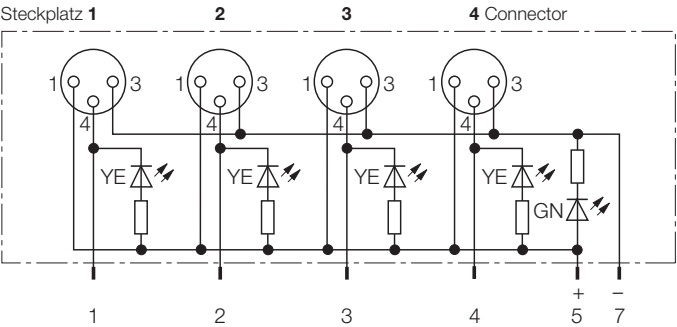
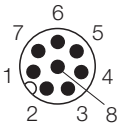
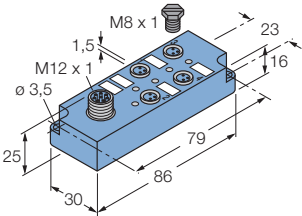
Adequate sealing-plugs > order-number 8015075
 Adequate labels > order-number 8011349

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole 	Wire-construction Adequate connecting cables > chapter M12 x 1	4MBM8-3P2 8017726

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 3-Pole,
Connector M12 x 1, 8-Pole



Actuator/sensor box	4 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M12 x 1, 8-pole
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, blue
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



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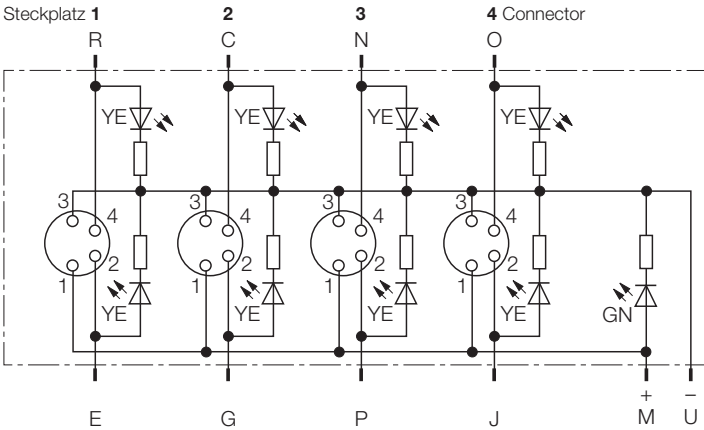
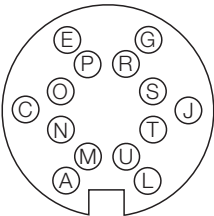
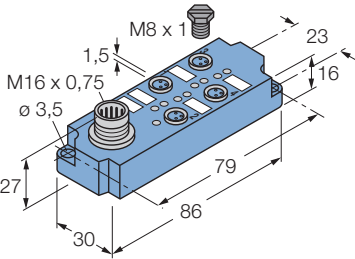
Adequate sealing-plugs > order-number 8015075
Adequate labels > order-number 8011349

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole 	Wire-construction	
	Adequate connecting cables > chapter M12 x 1	4MBM8-3N2 8021638

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 4-Pole,
Connector M16 x 0,75, 14-Pole



Actuator/sensor box	4 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 4-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M16 x 0,75, 14-pole
Flange housing	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁸ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



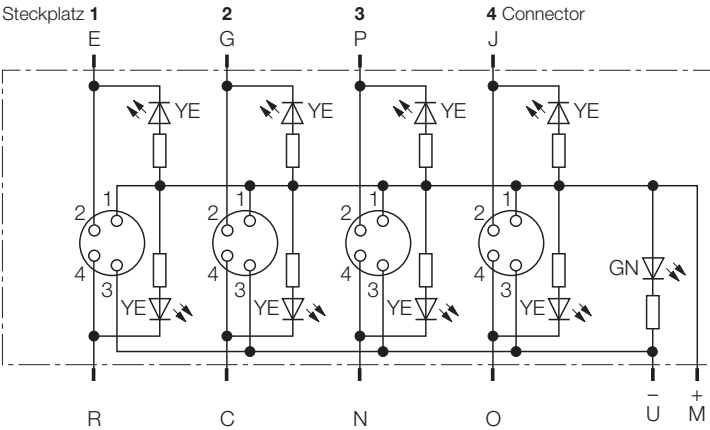
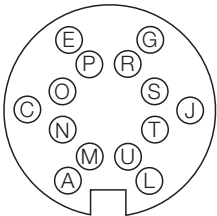
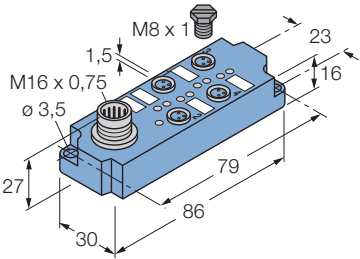
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 Adequate labels > order-number 8011349

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole 	Wire-construction Adequate connecting cables > chapter M16 x 0,75	4MBM8-4P3 8025641

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 4-Pole,
Connector M16 x 0,75, 14-Pole



Actuator/sensor box	4 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 4-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Male flange connector	M16 x 0,75, 14-pole
Flange housing	metal, GD-Zn, nickel-plated
Contact carriers	plastic, PBT, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



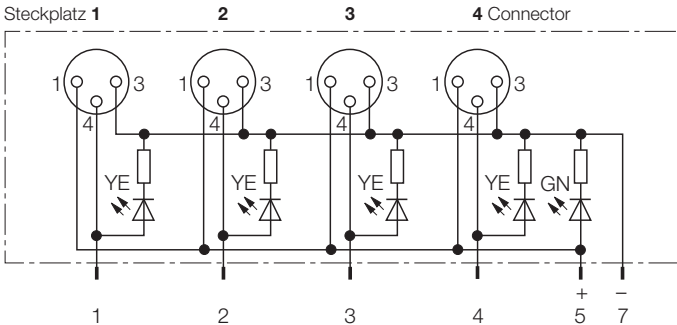
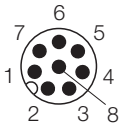
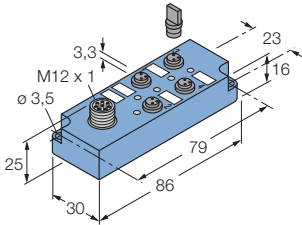
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Adequate labels > order-number 8011349

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
4-pole	Wire-construction	
4 3 2 1	Adequate connecting cables > chapter M16 x 0,75	4MBM8-4N3 8025642

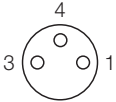
Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 3-Pole, Snap-In,
Connector M12 x 1, 8-Pole



Actuator/sensor box	4 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Male flange connector	M12 x 1, 8-pole
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, blue
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



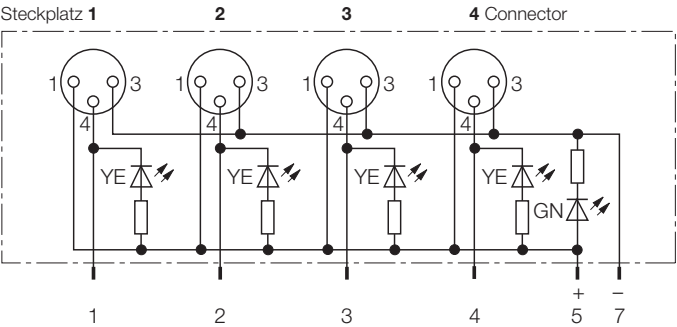
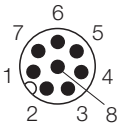
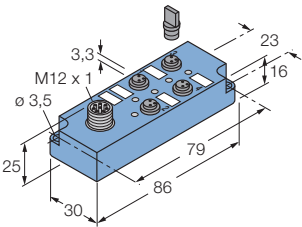
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 Adequate labels > order-number 8011349

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole 	Wire-construction Adequate connecting cables > chapter M12 x 1	4MBS8-3P2 8017725

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 3-Pole, Snap-In,
Connector M12 x 1, 8-Pole



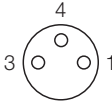
Actuator/sensor box	4 ports, with connector
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Male flange connector	M12 x 1, 8-pole
Flange housing	metal, CuZn, nickel-plated
Contact carriers	plastic, TPU, blue
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



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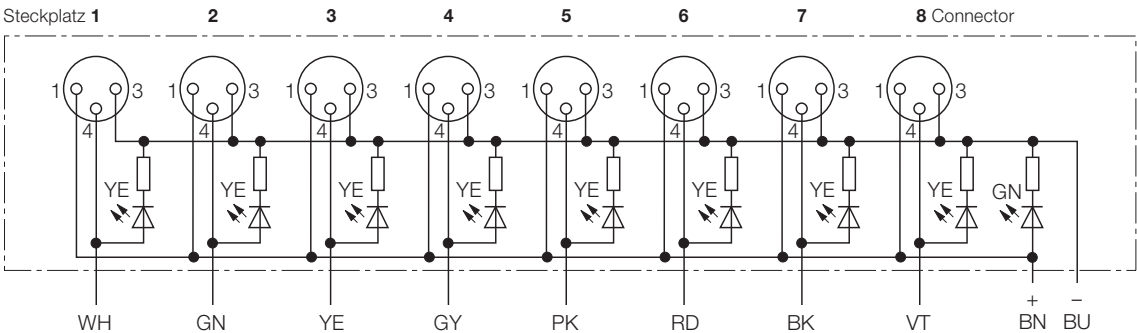
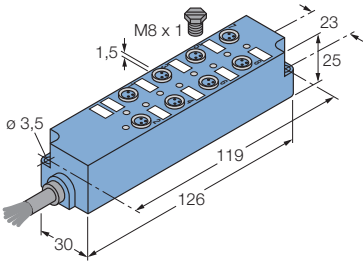
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Adequate labels > order-number 8011349

		Standard cable-length
Coding	Cable-quality	Type-designation Order-number
3-pole 	Wire-construction Adequate connecting cables > chapter M12 x 1	4MBS8-3N2 8021639

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



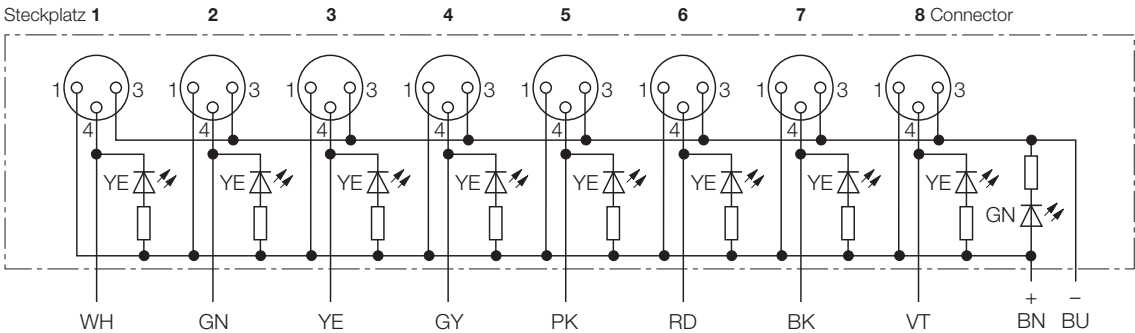
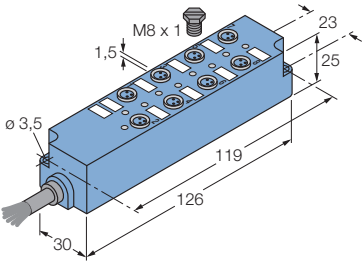
Adequate sealing-plugs > order-number 8015075
Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PUR, halogen-free, BK 8 x0.25 mm ² / 2 x0.5 mm ² / Ø 7.1 mm	8MBM8-3P2-2/S1117 8018113	8MBM8-3P2-5/S1117 8018114	8MBM8-3P2-10/S1117 8018115

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



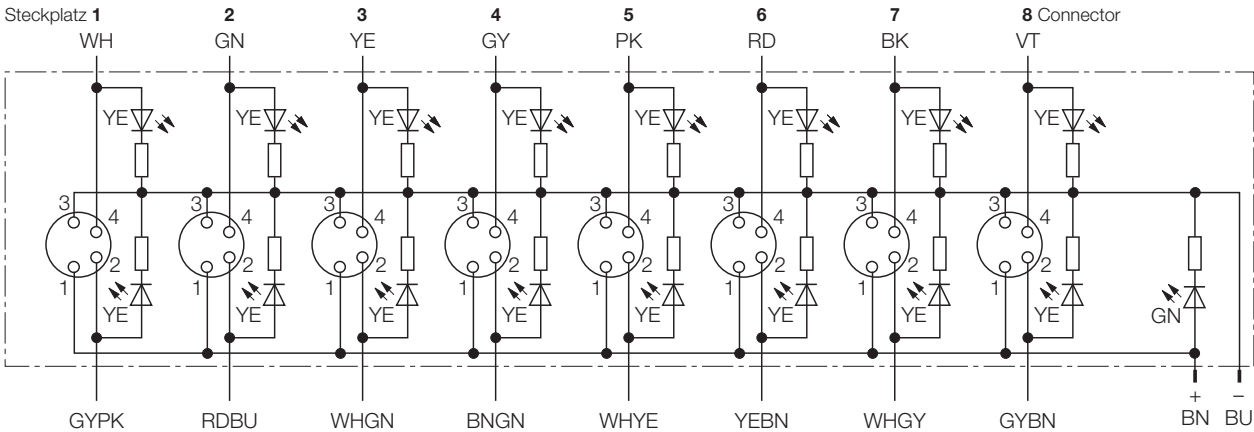
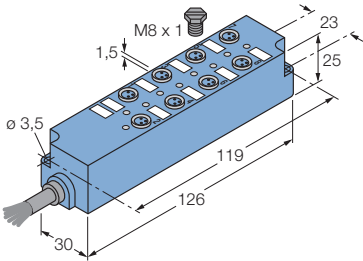
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 Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PUR, halogen-free, BK 8 x 0.25 mm ² / 2 x 0.5 mm ² / Ø 7.1 mm	8MBM8-3N2-2/S1117 8021607	8MBM8-3N2-5/S1117 8021640	8MBM8-3N2-10/S1117 8021643

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 4-Pole,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 4-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



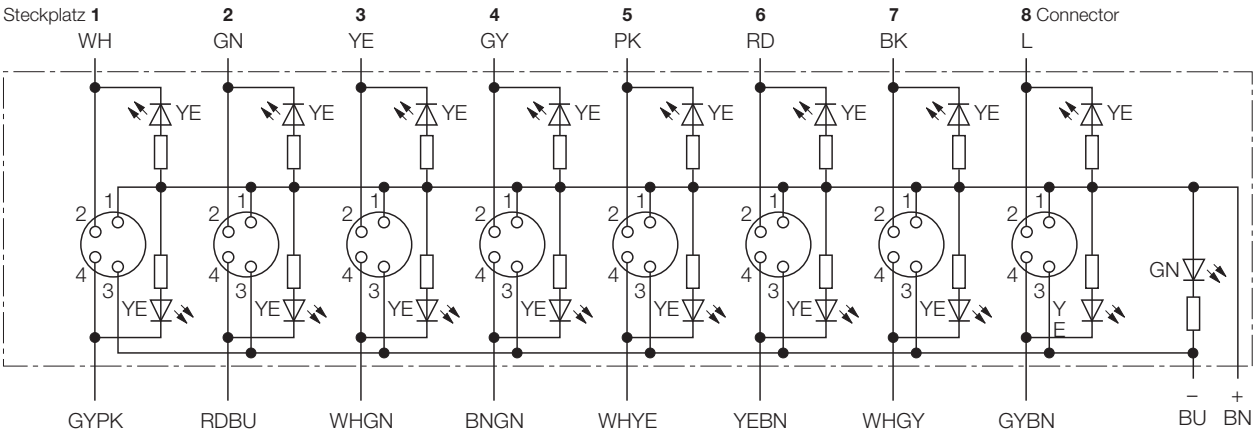
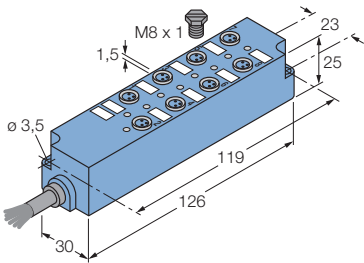
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Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 	PUR, halogen-free, BK 16 x0.25 mm² / 2 x0.5 mm² / Ø 8.5 mm	8MBM8-4P3-2/S1117 8025648	8MBM8-4P3-5/S1117 8025651	8MBM8-4P3-10/S1117 8025653

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 4-Pole,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 4-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



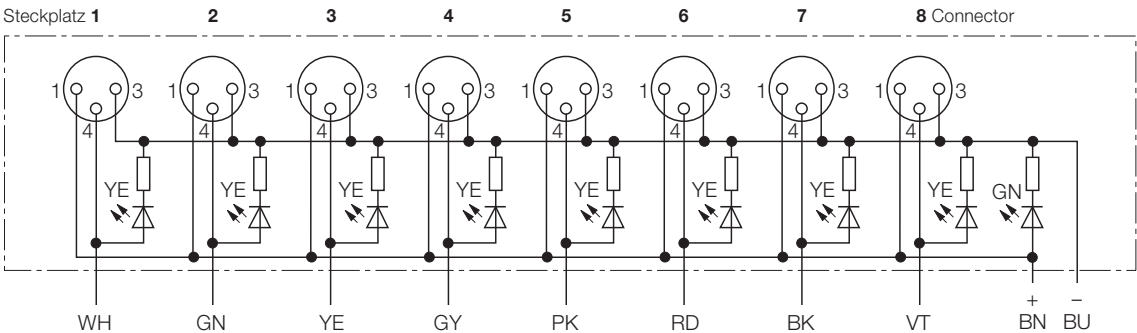
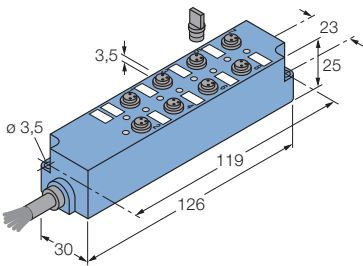
Adequate sealing-plugs > order-number 8015075
Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole				
	PUR, halogen-free, BK 16 x0.25 mm² / 2 x0.5 mm² / Ø 8.5 mm	8MBM8-4N3-2/S1117 8025662	8MBM8-4N3-5/S1117 8025663	8MBM8-4N3-10/S1117 8025664

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole, Snap-In,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



Adequate sealing-plugs > order-number 8010971
Adequate labels > order-number 8011349

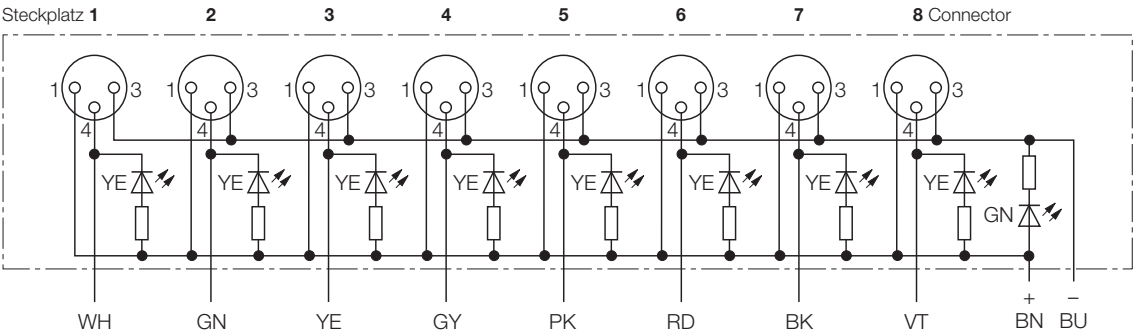
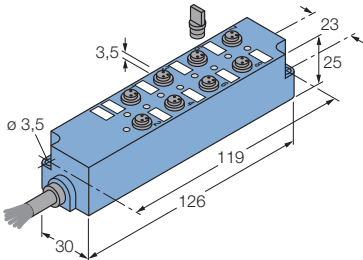
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PUR, halogen-free, BK 8 x0.25 mm ² / 2 x0.5 mm ² / Ø 7.1 mm	8MBS8-3P2-2/S1117 8018116	8MBS8-3P2-5/S1117 8018117	8MBS8-3P2-10/S1117 8018118

Edition: 11.2008
Subject to change without notice

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole, Snap-In,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



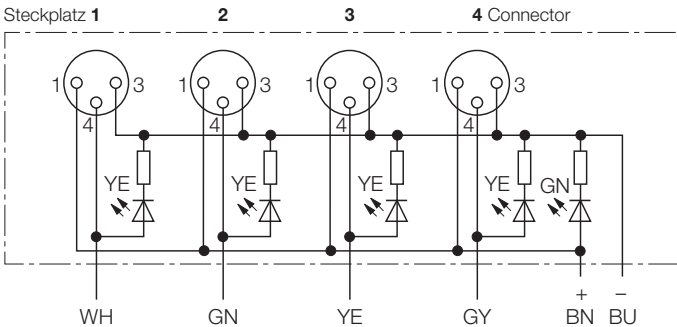
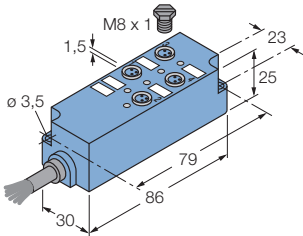
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		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
3-pole 	PUR, halogen-free, BK 8 x0.25 mm² / 2 x0.5 mm² / Ø 7.1 mm	8MBS8-3N2-2/S1117 8021609	8MBS8-3N2-5/S1117 8021641	8MBS8-3N2-10/S1117 8021642

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 3-Pole,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



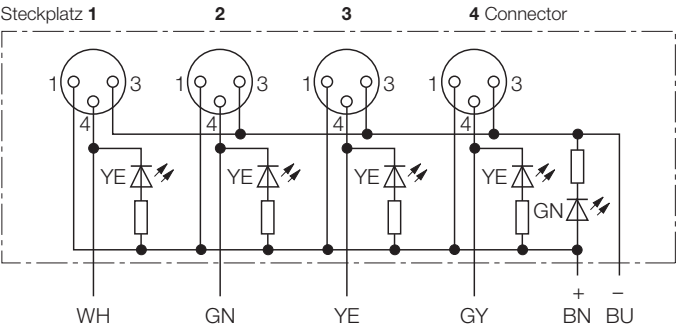
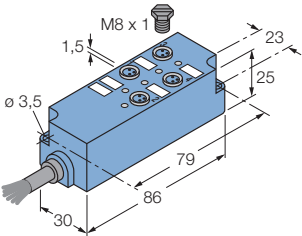
Adequate sealing-plugs > order-number 8015075
Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PUR, halogen-free, BK 4 x0.25 mm² / 2 x0.5 mm² / Ø 5.8 mm	4MBM8-3P2-2/S1117 8018119	4MBM8-3P2-5/S1117 8018120	4MBM8-3P2-10/S1117 8018121

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 3-Pole,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



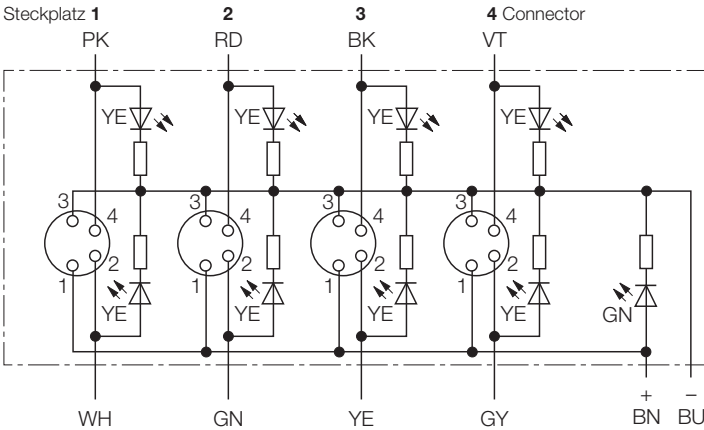
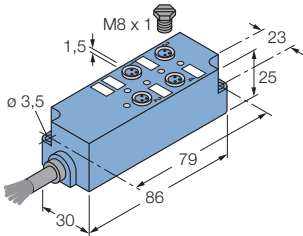
Adequate sealing-plugs > order-number 8015075
Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
3-pole 	PUR, halogen-free, BK 4 x0.25 mm² / 2 x0.5 mm² / Ø 5.8 mm	4MBM8-3N2-2/S1117 8021611	4MBM8-3N2-5/S1117 8021644	4MBM8-3N2-10/S1117 8021645

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 4-Pole,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 4-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



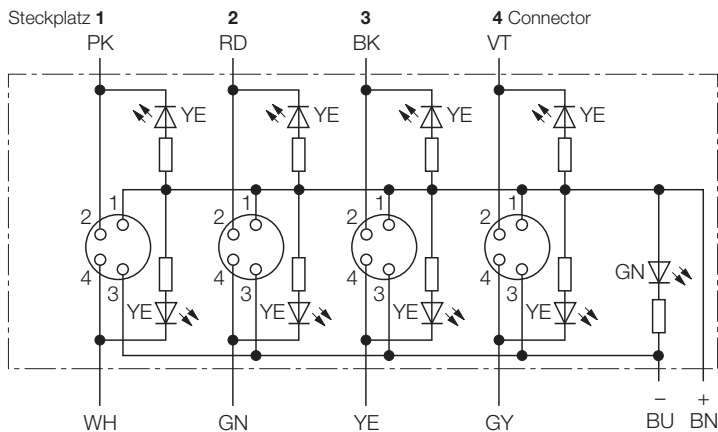
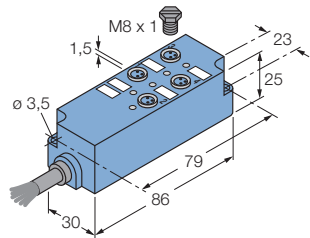
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Adequate labels > order-number 8011349

Coding	Cable-quality Wire-construction	Standard cable-length		
		2 m	5 m	10 m
4-pole 	PUR, halogen-free, BK 16 x0.25 mm² / 2 x0.5 mm² / Ø 8.5 mm	4MBM8-4P3-2/S1117 8025656	4MBM8-4P3-5/S1117 8025658	4MBM8-4P3-10/S1117 8025660

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 4-Pole,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 4-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



Adequate sealing-plugs > order-number 8015075
Adequate labels > order-number 8011349

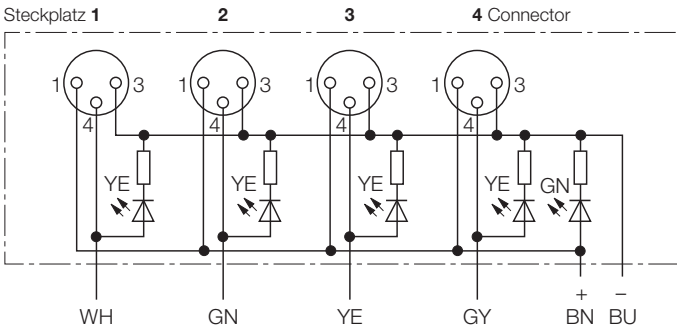
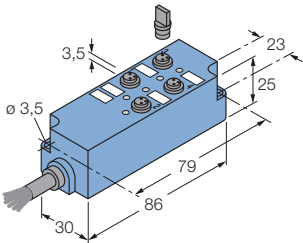
		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
Wire-construction		Order-number		
4-pole	PUR, halogen-free, BK 16 x0.25 mm ² / 2 x0.5 mm ² / Ø 8.5 mm	4MBM8-4N3-2/S1117 8025668	4MBM8-4N3-5/S1117 8025669	4MBM8-4N3-10/S1117 8025670



Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm 4-Ports, I/O-Ports 3-Pole, Snap-In, with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



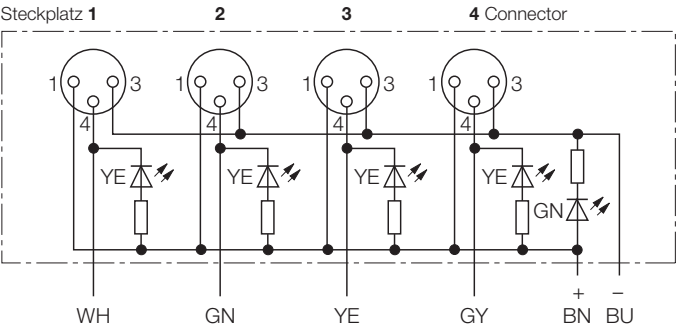
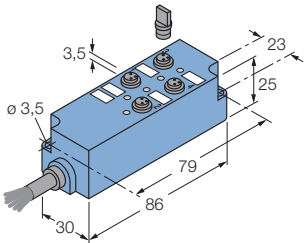
Adequate sealing-plugs > order-number 8010971
 Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PUR, halogen-free, BK 4 x0.25 mm² / 2 x0.5 mm² / Ø 5.8 mm	4MBS8-3P2-2/S1117 8018122	4MBS8-3P2-5/S1117 8018123	4MBS8-3P2-10/S1117 8018124

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 3-Pole, Snap-In,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	nnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



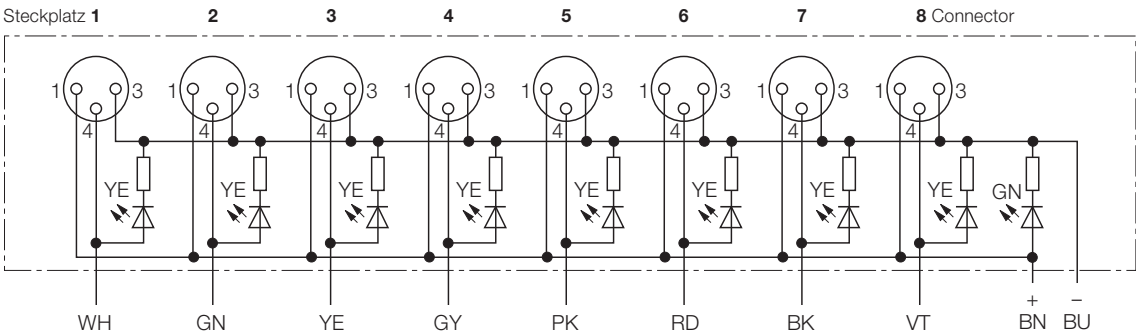
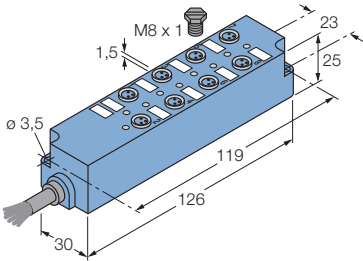
Adequate sealing-plugs > order-number 8010971
Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
Wire-construction		Order-number		
3-pole 	PUR, halogen-free, BK 4 x 0.25 mm ² / 2 x 0.5 mm ² / Ø 5.8 mm	4MBS8-3N2-2/S1117 8021614	4MBS8-3N2-5/S1117 8021646	4MBS8-3N2-10/S1117 8021647

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



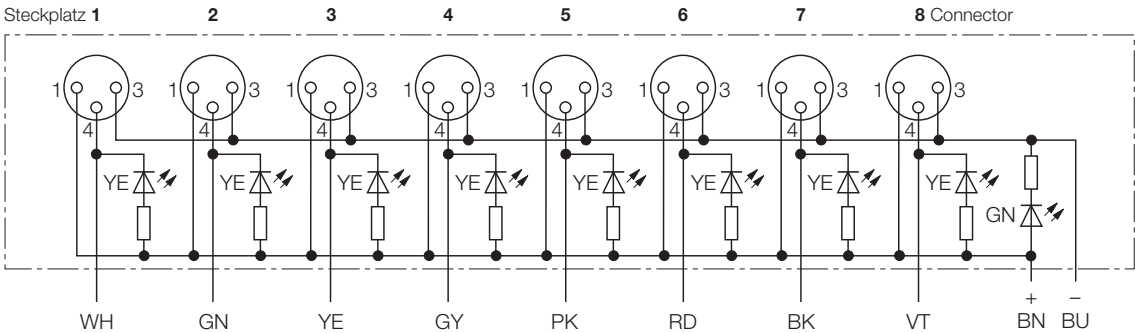
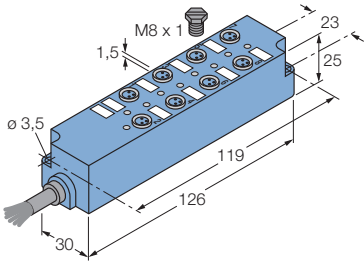
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Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, BK 8 x0.25 mm ² / 2 x0.5 mm ² / Ø 8 mm	8MBM8-3P2-2/S1118 8018125	8MBM8-3P2-5/S1118 8018126	8MBM8-3P2-10/S1118 8018127

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



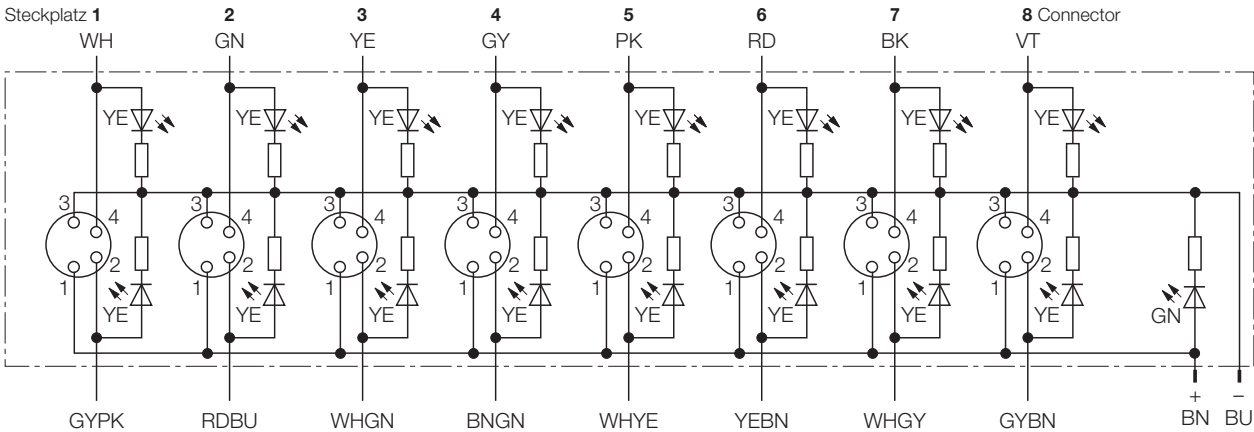
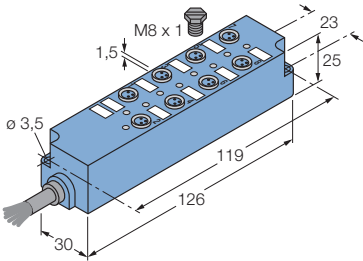
Adequate sealing-plugs > order-number 8015075
 Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
3-pole 	PVC, BK 8 x0.25 mm ² / 2 x0.5 mm ² / Ø 8 mm	8MBM8-3N2-2/S1118 8021654	8MBM8-3N2-5/S1118 8021655	8MBM8-3N2-10/S1118 8021656

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 4-Pole,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 4-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



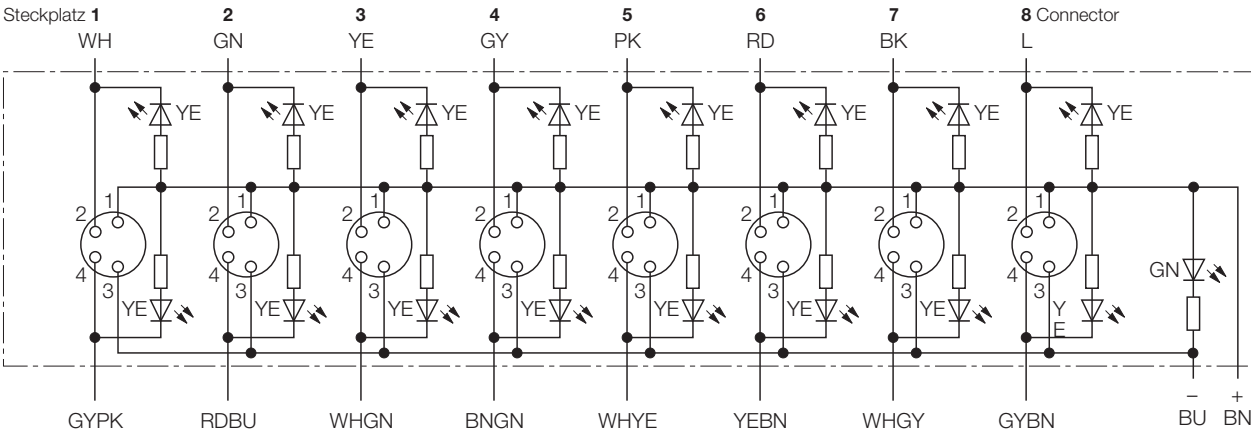
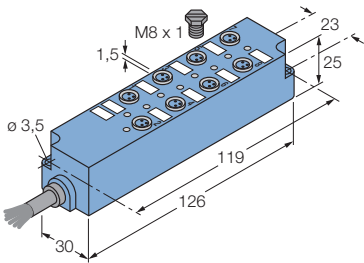
Adequate sealing-plugs > order-number 8015075
 Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole 	PVC, BK 16 x0.25 mm ² / 2 x0.5 mm ² / Ø 8.5 mm	8MBM8-4P3-2/S1118 8025650	8MBM8-4P3-5/S1118 8025652	8MBM8-4P3-10/S1118 8025655

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 4-Pole,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 4-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



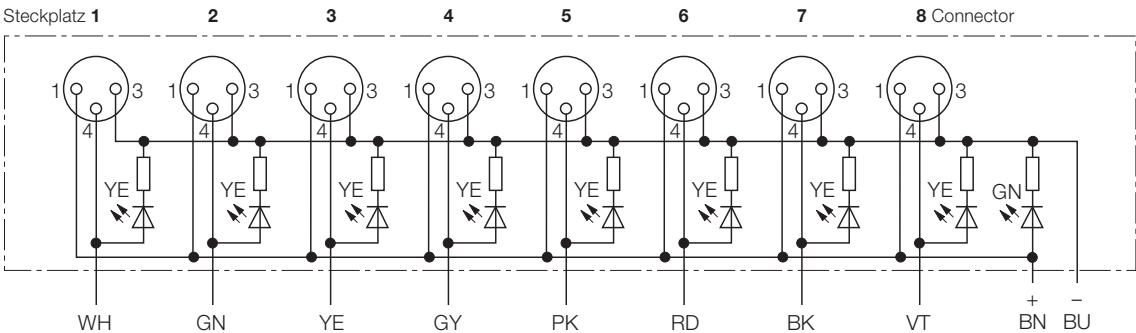
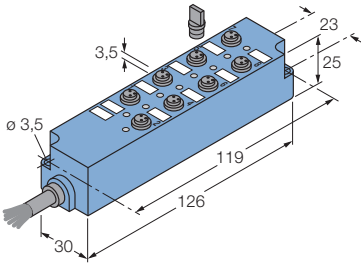
Adequate sealing-plugs > order-number 8015075
 Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
4-pole 	PVC, BK 16 x0.25 mm ² / 2 x0.5 mm ² / Ø 8.5 mm	8MBM8-4N3-2/S1118 8025665	8MBM8-4N3-5/S1118 8025666	8MBM8-4N3-10/S1118 8025667

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole, Snap-In,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



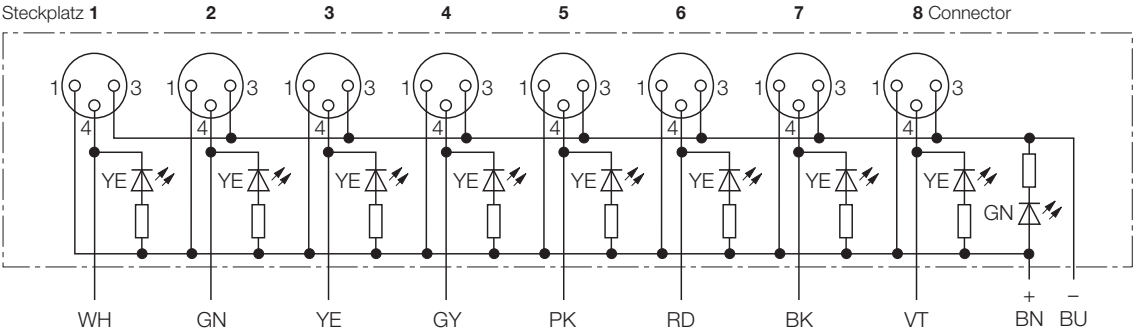
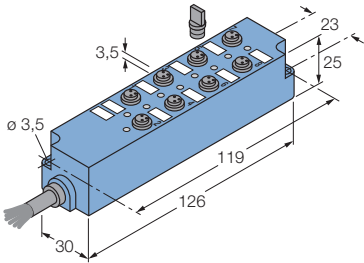
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Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, BK 8 x0.25 mm ² / 2 x0.5 mm ² / Ø 8 mm	8MBS8-3P2-2/S1118 8018128	8MBS8-3P2-5/S1118 8018129	8MBS8-3P2-10/S1118 8018130

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
8-Ports, I/O-Ports 3-Pole, Snap-In,
with Homerun-Cable



Actuator/sensor box	8 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



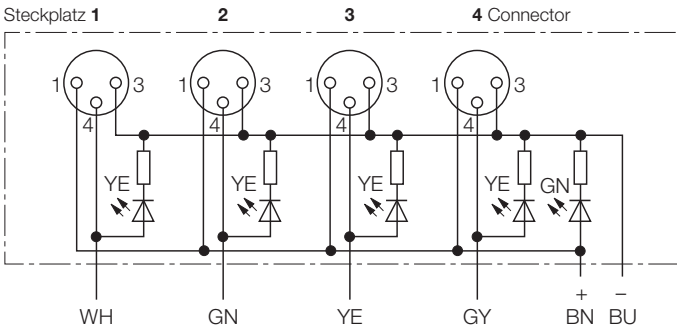
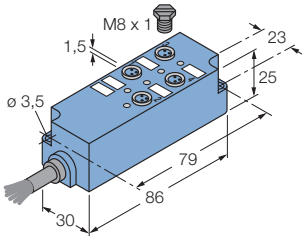
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Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
	Wire-construction	Order-number		
3-pole 	PVC, BK 8 x0.25 mm² / 2 x0.5 mm² / Ø 8 mm	8MBS8-3N2-2/S1118 8021657	8MBS8-3N2-5/S1118 8021658	8MBS8-3N2-10/S1118 8021659

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 3-Pole,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



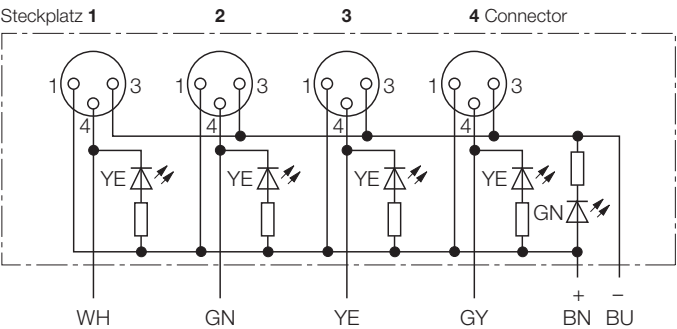
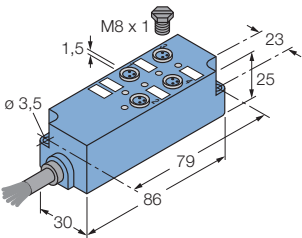
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 Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	PVC, BK 8 x0.25 mm ² / 2 x0.5 mm ² / Ø 8 mm	4MBM8-3P2-2/S1118 8018131	4MBM8-3P2-5/S1118 8018132	4MBM8-3P2-10/S1118 8018133

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 3-Pole,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 3-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



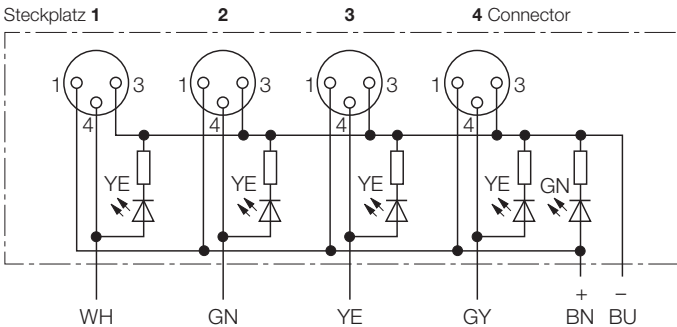
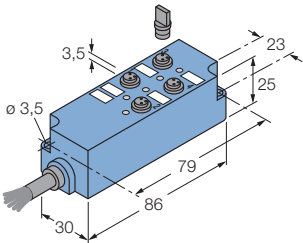
Adequate sealing-plugs > order-number 8015075
Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
Wire-construction		Order-number		
3-pole				
	PVC, BK 8 x 0.25 mm ² / 2 x 0.5 mm ² / Ø 5.8 mm	4MBM8-3N2-2/S1118 8021660	4MBM8-3N2-2/S1118 8021661	4MBM8-3N2-10/S1118 8021662

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 3-Pole, Snap-In,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	≥ 10 ⁹ Ω
Forward resistance	≤ 5 mΩ
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



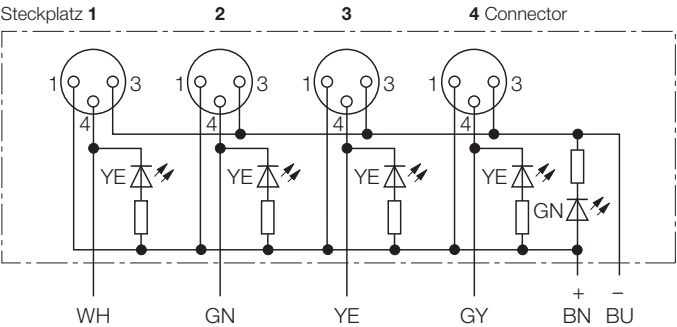
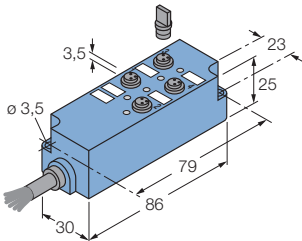
Adequate sealing-plugs > order-number 8010971
 Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
3-pole 	PVC, BK 8 x0.25 mm ² / 2 x0.5 mm ² / Ø 8 mm	4MBS8-3P2-2/S1118 8018134	4MBS8-3P2-5/S1118 8018135	4MBS8-3P2-10/S1118 8018136

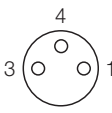
Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 3-Pole, Snap-In,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, Ø 8 mm, 3-pole, snap-in
Contact carriers	plastic, PA 6 GF, black
Contacts	metal, CuZn, gold-plated
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in plugged status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



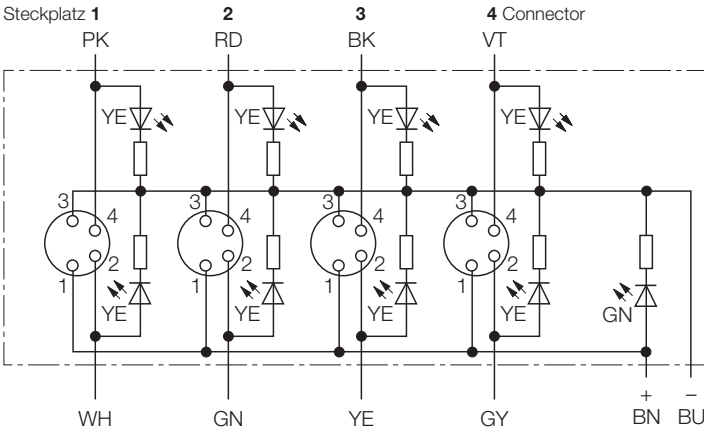
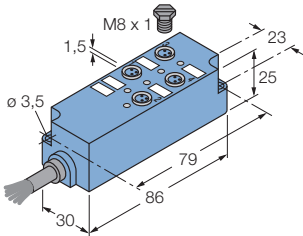
Adequate sealing-plugs > order-number 8010971
Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation Order-number		
3-pole 	Wire-construction PVC, BK 8 x0.25 mm² / 2 x0.5 mm² / Ø 5.8 mm	4MBS8-3N2-2/S1118 8021663	4MBS8-3N2-5/S1118 8021664	4MBS8-3N2-10/S1118 8021665

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 4-Pole,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 4-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	pnp, npn version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



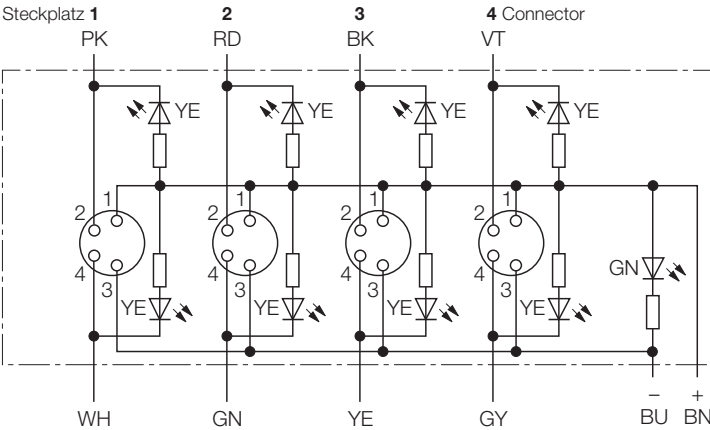
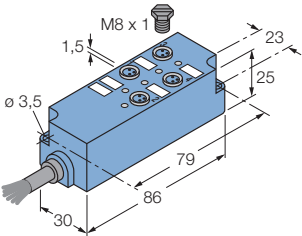
Adequate sealing-plugs > order-number 8015075
Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality Wire-construction	Type-designation Order-number		
4-pole 	PVC, BK 8 x0.25 mm ² / 2 x0.5 mm ² / Ø 8 mm	4MBM8-4P3-2/S1118 8025657	4MBM8-4P3-5/S1118 8025659	4MBM8-4P3-10/S1118 8025661

Actuator-/Sensor-Junction-Systems M8 x 1/Ø 8mm
4-Ports, I/O-Ports 4-Pole,
with Homerun-Cable



Actuator/sensor box	4 ports, with homerun-cable
Housing	plastic, PA 6 GF, blue
I/O port	female connector, M8 x 1, 4-pole
Thread insert	metal, CuZn, nickel-plated
Contact carriers	plastic, PA 6 GF, blue
Contacts	metal, CuZn, gold-plated
Seal	plastic, FPM/FKM
Rated voltage	10 ...30 V
Ampacity	2 A per signal contact, total current 6 A
Insulation resistance	$\geq 10^9 \Omega$
Forward resistance	$\leq 5 \text{ m}\Omega$
Pollution degree	3
Operating voltage display	LED green
Display switch state	LED yellow
Switching function	npn, pnp version also available
Ambient temperature junction	-30 ... +90 °C
Degree of protection	IP67, only in screwed status
Mechanical lifespan	min. 100 contact durability
Included in scope of supply	set of labelling plates, two blanking plugs each



Adequate sealing-plugs > order-number 8015075
Adequate labels > order-number 8011349

		Standard cable-length		
		2 m	5 m	10 m
Coding	Cable-quality	Type-designation		
Wire-construction		Order-number		
4-pole	PVC, BK	4MBM8-4N3-2/S1118	4MBM8-4N3-5/S1118	4MBM8-4N3-10/S1118
	8 x 0.25 mm ² / 2 x 0.5 mm ² / Ø 8 mm	8025671	8025672	8025673

Typ-Bezeichnung Type-Designation	Ident-Nr. Order-No.	Seite Page	Typ-Bezeichnung Type-Designation	Ident-Nr. Order-No.	Seite Page
4MB12-5P1-M-SK	8018205	13.21	8MBM8-3N2-2/S1118	8021654	13.49
4MB12-5P1-MS-SK	8018206	13.22	8MBM8-3N2-5/S1117	8021640	13.37
4MB12-5P4-K-SK	8018204	13.20	8MBM8-3N2-5/S1118	8021655	13.49
4MBM12-5P3-10/S366	8019497	13.15	8MBM8-3P2	8017721	13.24
4MBM12-5P3-2/S366	8019495	13.15	8MBM8-3P2-10/S1117	8018115	13.36
4MBM12-5P3-5/S366	8019496	13.15	8MBM8-3P2-10/S1118	8018127	13.48
4MBM12-5P3-M23-19	8018782	13.14	8MBM8-3P2-2/S1117	8018113	13.36
4MBM8-3N2	8021638	13.31	8MBM8-3P2-2/S1118	8018125	13.48
4MBM8-3N2-10/S1117	8021645	13.43	8MBM8-3P2-5/S1117	8018114	13.36
4MBM8-3N2-10/S1118	8021662	13.55	8MBM8-3P2-5/S1118	8018126	13.48
4MBM8-3N2-2/S1117	8021611	13.43	8MBM8-4N3	8025645	13.27
4MBM8-3N2-2/S1118	8021660	13.55	8MBM8-4N3-10/S1117	8025664	13.39
4MBM8-3N2-2/S1118	8021661	13.55	8MBM8-4N3-10/S1118	8025667	13.51
4MBM8-3N2-5/S1117	8021644	13.43	8MBM8-4N3-2/S1117	8025662	13.39
4MBM8-3P2	8017726	13.30	8MBM8-4N3-2/S1118	8025665	13.51
4MBM8-3P2-10/S1117	8018121	13.42	8MBM8-4N3-5/S1117	8025663	13.39
4MBM8-3P2-10/S1118	8018133	13.54	8MBM8-4N3-5/S1118	8025666	13.51
4MBM8-3P2-2/S1117	8018119	13.42	8MBM8-4P3	8025630	13.26
4MBM8-3P2-2/S1118	8018131	13.54	8MBM8-4P3-10/S1117	8025653	13.38
4MBM8-3P2-5/S1117	8018120	13.42	8MBM8-4P3-10/S1118	8025655	13.50
4MBM8-3P2-5/S1118	8018132	13.54	8MBM8-4P3-2/S1117	8025648	13.38
4MBM8-4N3	8025642	13.33	8MBM8-4P3-2/S1118	8025650	13.50
4MBM8-4N3-10/S1117	8025670	13.45	8MBM8-4P3-5/S1117	8025651	13.38
4MBM8-4N3-10/S1118	8025673	13.59	8MBM8-4P3-5/S1118	8025652	13.50
4MBM8-4N3-2/S1117	8025668	13.45	8MBS8-3N2	8021610	13.29
4MBM8-4N3-2/S1118	8025671	13.59	8MBS8-3N2-10/S1117	8021642	13.41
4MBM8-4N3-5/S1117	8025669	13.45	8MBS8-3N2-10/S1118	8021659	13.53
4MBM8-4N3-5/S1118	8025672	13.59	8MBS8-3N2-2/S1117	8021609	13.41
4MBM8-4P3	8025641	13.32	8MBS8-3N2-2/S1118	8021657	13.53
4MBM8-4P3-10/S1117	8025660	13.44	8MBS8-3N2-5/S1117	8021641	13.41
4MBM8-4P3-10/S1118	8025661	13.58	8MBS8-3N2-5/S1118	8021658	13.53
4MBM8-4P3-2/S1117	8025656	13.44	8MBS8-3P2	8017724	13.28
4MBM8-4P3-2/S1118	8025657	13.58	8MBS8-3P2-10/S1117	8018118	13.40
4MBM8-4P3-5/S1117	8025658	13.44	8MBS8-3P2-10/S1118	8018130	13.52
4MBM8-4P3-5/S1118	8025659	13.58	8MBS8-3P2-2/S1117	8018116	13.40
4MBS8-3N2	8021639	13.35	8MBS8-3P2-2/S1118	8018128	13.52
4MBS8-3N2-10/S1117	8021647	13.47	8MBS8-3P2-5/S1117	8018117	13.40
4MBS8-3N2-10/S1118	8021665	13.57	8MBS8-3P2-5/S1118	8018129	13.52
4MBS8-3N2-2/S1117	8021614	13.47	E		
4MBS8-3N2-2/S1118	8021663	13.57	EC-FK12-0,5/16	8028116	2.54
4MBS8-3N2-5/S1117	8021646	13.47	EC-FK12-0,5/16/S2470	8037325	8.43
4MBS8-3N2-5/S1118	8021664	13.57	EC-FK12-0,5/20	8028118	2.104
4MBS8-3P2	8017725	13.34	EC-FK12-L/16/S2470	8039680	8.45
4MBS8-3P2-10/S1117	8018124	13.46	EC-FK3-0,5/16	8027515	2.53
4MBS8-3P2-10/S1118	8018136	13.56	EC-FK3-0,5/16/S2470	8037311	8.42
4MBS8-3P2-2/S1117	8018122	13.46	EC-FK3-0,5/20	8027540	2.103
4MBS8-3P2-2/S1118	8018134	13.56	EC-FK3-L/16	8027566	2.68
4MBS8-3P2-5/S1117	8018123	13.46	EC-FK3-L/16/S2470	8039662	8.44
4MBS8-3P2-5/S1118	8018135	13.56	EC-FK3-L/20	8027572	2.113
8FK5P3	8008720	13.9	EC-FK4.5-0,5/16	8027519	2.54
8MB12-5P1-M-SK	8018199	13.18	EC-FK4.5-0,5/16/S2470	8037323	8.42
8MB12-5P1-MS-SK	8018200	13.19	EC-FK4.5-0,5/20	8027543	2.104
8MB12-5P4-K-SK	8018198	13.17	EC-FK4-0,5/16	8027516	2.53
8MBM8-3N2	8021608	13.25	EC-FK4-0,5/16/S2470	8037322	8.42
8MBM8-3N2-10/S1117	8021643	13.37	EC-FK4-0,5/20	8027542	2.103
8MBM8-3N2-10/S1118	8021656	13.49	EC-FK4-L/16/S2470	8039663	8.44
8MBM8-3N2-2/S1117	8021607	13.37	EC-FK4-L/20	8027573	2.113

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EC-FK4-L-16	8027569	2.68	EC-FKE8-L/20	8029020	2.116
EC-FK5-0,5/16	8027520	2.53	EC-FKFD12-0,5/16	8028121	2.58
EC-FK5-0,5/20	8027544	2.103	EC-FKFD12-P/16	8029480	2.74
EC-FK5-L/16	8027570	2.68	EC-FKFD3-0,5/16	8027547	2.57
EC-FK5-L/16/S2470	8039664	8.44	EC-FKFD3-P/16	8029476	2.73
EC-FK5-L/20	8027574	2.113	EC-FKFD4.5-0,5/16	8027549	2.58
EC-FK8-0,5/16	8028110	2.54	EC-FKFD4-0,5/16	8027548	2.57
EC-FK8-0,5/16/S2470	8037324	8.43	EC-FKFD4-P/16	8029477	2.73
EC-FK8-0,5/20	8028112	2.104	EC-FKFD5-0,5/16	8027550	2.57
EC-FK8-L/16	8028122	2.69	EC-FKFD5-P/16	8029478	2.73
EC-FK8-L/16/S2470	8039679	8.45	EC-FKFD8-0,5/16	8028120	2.58
EC-FK8-L/20	8028123	2.114	EC-FKFD8-P/16	8029479	2.74
EC-FKD12-0,5/16	8028117	2.56	EC-FKFDE12-0,5/16	8029700	2.64
EC-FKD12-0,5/20	8028119	2.106	EC-FKFDE12-P/16	8029512	2.76
EC-FKD3-0,5/16	8027526	2.55	EC-FKFDE3-0,5/16	8029175	2.63
EC-FKD3-0,5/20	8027555	2.105	EC-FKFDE3-P/16	8029695	2.75
EC-FKD4.5-0,5/16	8027528	2.56	EC-FKFDE4.5-0,5/16	8029752	2.64
EC-FKD4.5-0,5/20	8027557	2.106	EC-FKFDE4-0,5/16	8029176	2.63
EC-FKD4-0,5/16	8027527	2.55	EC-FKFDE4-P/16	8029508	2.75
EC-FKD4-0,5/20	8027556	2.105	EC-FKFDE5-0,5/16	8029189	2.63
EC-FKD5-0,5/16	8027529	2.55	EC-FKFDE5-P/16	8029509	2.75
EC-FKD5-0,5/20	8027558	2.105	EC-FKFDE8-0,5/16	8029160	2.64
EC-FKD8-0,5/16	8028111	2.56	EC-FKFDE8-P/16	8029510	2.76
EC-FKD8-0,5/20	8028115	2.106	EC-FKFDW5-0,5/16	8029676	2.67
EC-FKDE12-0,5/16	8029698	2.62	EC-FKFDW5-P/16	8029684	2.77
EC-FKDE12-0,5/20	8029699	2.110	EC-FKW5-0,5/16	8029677	2.65
EC-FKDE3-0,5/16	8028132	2.61	EC-FKW5-0,5/20	8029740	2.111
EC-FKDE3-0,5/20	8028141	2.109	EC-FKW5-L/16	8029682	2.72
EC-FKDE4.5-0,5/16	8028135	2.62	EC-FKW5-L/20	8029683	2.117
EC-FKDE4.5-0,5/20	8028143	2.110	EC-FS12-0,5/16	8028073	2.79
EC-FKDE4-0,5/16	8028133	2.61	EC-FS12-0,5/16/S2470	8037295	8.47
EC-FKDE4-0,5/20	8028142	2.109	EC-FS12-0,5/20	8028078	2.119
EC-FKDE5-0,5/16	8028136	2.61	EC-FS12-L/16	8029552	2.94
EC-FKDE5-0,5/20	8028144	2.109	EC-FS12-L/16/S2470	8039661	8.49
EC-FKDE8-0,5/16	8029038	2.62	EC-FS12-L/20	8029580	2.129
EC-FKDE8-0,5/20	8029039	2.110	EC-FS3-0,5/16	8027382	2.78
EC-FKDW5-0,5/16	8029678	2.66	EC-FS3-0,5/16/S2470	8037288	8.46
EC-FKDW5-0,5/20	8029681	2.112	EC-FS3-0,5/20	8027480	2.118
EC-FKE12-0,5/16	8029696	2.60	EC-FS3-L/16/S2470	8039645	8.48
EC-FKE12-0,5/20	8029697	2.108	EC-FS3-L/20	8029575	2.128
EC-FKE3-0,5/16	8028126	2.59	EC-FS3-L/6	8029545	2.93
EC-FKE3-0,5/20	8028137	2.107	EC-FS4.5-0,5/16	8027394	2.79
EC-FKE3-L/16	8029169	2.70	EC-FS4.5-0,5/16/S2470	8037293	8.46
EC-FKE3-L/20	8029172	2.115	EC-FS4.5-0,5/20	8027482	2.119
EC-FKE4.5-0,5/16	8028128	2.60	EC-FS4.5-L/16	8029547	2.94
EC-FKE4.5-0,5/20	8028139	2.108	EC-FS4.5-L/16/S2470	8039647	8.48
EC-FKE4-0,5/16	8028127	2.59	EC-FS4.5-L/20	8029577	2.129
EC-FKE4-0,5/20	8028138	2.107	EC-FS4-0,5/16	8027383	2.78
EC-FKE4-L/16	8029170	2.70	EC-FS4-0,5/16/S2470	8037292	8.46
EC-FKE4-L/20	8029173	2.115	EC-FS4-0,5/20	8027481	2.118
EC-FKE5-0,5/16	8028131	2.59	EC-FS4-L/16	8029546	2.93
EC-FKE5-0,5/20	8028140	2.107	EC-FS4-L/16/S2470	8036275	8.48
EC-FKE5-L/16	8029171	2.70	EC-FS4-L/20	8029576	2.128
EC-FKE5-L/16	8029174	2.115	EC-FS5-0,5/16	8027393	2.78
EC-FKE8-0,5/16	8029015	2.60	EC-FS5-0,5/20	8027483	2.118
EC-FKE8-0,5/20	8029021	2.108	EC-FS5-L/16	8029548	2.93
EC-FKE8-L/16	8029016	2.71	EC-FS5-L/20	8029578	2.128

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EC-FS8-0,5/16	8028072	2.79	EC-FSFD12-P/16	8029505	2.99
EC-FS8-0,5/16/S2470	8037294	8.47	EC-FSFD3-0,5/16	8027509	2.82
EC-FS8-0,5/20	8028075	2.119	EC-FSFD3-P/16	8029495	2.98
EC-FS8-L/16	8029551	2.94	EC-FSFD4.5-0,5/16	8027506	2.83
EC-FS8-L/16/S2470	8038811	8.49	EC-FSFD4.5-P/16	8029499	2.99
EC-FS8-L/20	8029579	2.129	EC-FSFD4-0,5/16	8027508	2.82
EC-FSD12-0,5/16	8028077	2.81	EC-FSFD4-P/16	8029497	2.98
EC-FSD12-0,5/20	8028079	2.121	EC-FSFD5-0,5/16	8027505	2.82
EC-FSD3-0,5/16	8027467	2.80	EC-FSFD5-P/16	8029501	2.98
EC-FSD3-0,5/20	8027489	2.120	EC-FSFD8-0,5/16	8028080	2.83
EC-FSD4.5-0,5/16	8027470	2.81	EC-FSFD8-P/16	8029503	2.99
EC-FSD4.5-0,5/20	8027487	2.121	EC-FSFDE12-0,5/16	8029212	2.89
EC-FSD4-0,5/16	8027469	2.80	EC-FSFDE12-P/16	8029506	2.101
EC-FSD4-0,5/20	8027488	2.120	EC-FSFDE3-0,5/16	8029213	2.88
EC-FSD5-0,5/16	8027471	2.80	EC-FSFDE3-P/16	8029496	2.100
EC-FSD5-0,5/20	8027486	2.120	EC-FSFDE4.5-0,5/16	8029215	2.89
EC-FSD8-0,5/16	8028074	2.81	EC-FSFDE4.5-P/16	8029500	2.101
EC-FSD8-0,5/20	8028076	2.121	EC-FSFDE4-0,5/16	8029214	2.88
EC-FSDE12-0,5/16	8029346	2.87	EC-FSFDE4-P/16	8029498	2.100
EC-FSDE12-0,5/20	8029347	2.125	EC-FSFDE5-0,5/16	8029216	2.88
EC-FSDE3-0,5/16	8028150	2.86	EC-FSFDE5-P/16	8029502	2.100
EC-FSDE3-0,5/20	8028158	2.124	EC-FSFDE8-0,5/16	8029158	2.89
EC-FSDE4.5-0,5/16	8028152	2.87	EC-FSFDE8-P/16	8029504	2.101
EC-FSDE4.5-0,5/20	8028160	2.125	EC-FSFDW5-0,5/16	8029690	2.92
EC-FSDE4-0,5/16	8028151	2.86	EC-FSFDW5-P/16	8029687	2.102
EC-FSDE4-0,5/20	8028159	2.124	EC-FSW5-0,5/16	8029688	2.90
EC-FSDE5-0,5/16	8028153	2.86	EC-FSW5-0,5/20	8029689	2.126
EC-FSDE5-0,5/20	8028161	2.124	EC-FSW5-L/16	8029685	2.97
EC-FSDE8-0,5/16	8029084	2.87	EC-FWS5-L/20	8029686	2.132
EC-FSDE8-0,5/20	8029157	2.125	ESGP3L	8008744	5.36
EC-FSDW5-0,5/16	8029691	2.91	ESGP3P	8008742	5.37
EC-FSDW5-0,5/20	8029692	2.127	ESGP4L	8008745	5.36
EC-FSE12-0,5/16	8029344	2.85	ESGP4P	8008743	5.37
EC-FSE12-0,5/20	8029345	2.123	ESH3P3L	8008161	5.34
EC-FSE12-L/16	8029558	2.96	ESH3P3P	8008159	5.35
EC-FSE12-L/20	8029586	2.131	ESH3P4L	8008162	5.34
EC-FSE3-0,5/16	8028145	2.84	ESH3P4P	8008160	5.35
EC-FSE3-0,5/20	8028154	2.122	ESP3S	8008163	5.32
EC-FSE3-L/16	8029553	2.95	ESP4S	8008164	5.32
EC-FSE3-L/20	8029581	2.130	ESP6S	8008153	5.32
EC-FSE4.5-0,5/16	8028148	2.85	EWAS4	8008155	2.154
EC-FSE4.5-0,5/20	8028156	2.123	EWAS4.5	8008156	2.154
EC-FSE4.5-L/16	8029555	2.96	EWAS5	8017592	2.154
EC-FSE4.5-L/20	8029583	2.131	EWAS6	8009736	2.155
EC-FSE4-0,5/16	8028147	2.84	EWAS8	8009737	2.155
EC-FSE4-0,5/20	8028155	2.122	F		
EC-FSE4-L/16	8029554	2.95	FB-8M12-5P3-15/P00	8024411	13.23
EC-FSE4-L/20	8029582	2.130	FB-FK4-0,5	8024474	2.140
EC-FSE5-0,5/16	8028149	2.84	FB-FK4-0,5/S2300	8033631	9.20
EC-FSE5-L/16	8029556	2.95	FB-FK4-L/S2300	8033633	9.21
EC-FSE5-L/20	8029584	2.130	FB-FK5-0,5	8024475	2.140
EC-FSE8-0,5/16	8029083	2.85	FB-FS4-0,5	8024594	2.152
EC-FSE8-0,5/20	8028157	2.122	FB-FS4-0,5/S2300	8033632	9.22
EC-FSE8-0,5/20	8029088	2.123	FB-FS4-L	8024619	2.153
EC-FSE8-L/16	8029557	2.96	FB-FS4-L/S2300	8033634	9.23
EC-FSE8-L/20	8029585	2.131	FB-FS5-0,5	8024591	2.152
EC-FSFD12-0,5/16	8028554	2.83	FB-FS5-L	8024596	2.153

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FB-SKP3-10/S2300	8039415	9.12	FB-WAS4-5/P00	8024463	2.36
FB-SKP3-10-FB-SSP3/S2300	8039698	9.16	FB-WAS4-5/S2300	8033670	9.4
FB-SKP3-2/S2300	8039414	9.12	FB-WAS4-5-FB-WAS4/S2300	8033685	9.8
FB-SKP3-2-FB-SSP3/S2300	8039696	9.16	FB-WAS5-10/P00	8024612	2.36
FB-SKP3-5/S2300	8035188	9.12	FB-WAS5-15/P00	8024613	2.36
FB-SKP3-5-FB-SSP3/S2300	8039697	9.16	FB-WAS5-5/P00	8024469	2.36
FB-SKP4-10/S2300	8036166	9.12	FB-WWAK4-10/P00	8022816	2.27
FB-SKP4-10-FB-SSP4/S2300	8039701	9.17	FB-WWAK4-10/S2300	8033668	9.2
FB-SKP4-2/S2300	8036165	9.12	FB-WWAK4-10-FB-WWAK4/S2300	8033694	9.9
FB-SKP4-2-FB-SSP4/S2300	8039699	9.17	FB-WWAK4-10-FB-WWAS4/S2300	8033690	9.10
FB-SKP4-5/S2300	8035867	9.12	FB-WWAK4-15/P00	8024607	2.27
FB-SKP4-5-FB-SSP4/S2300	8039700	9.17	FB-WWAK4-2/S2300	8034194	9.2
FB-SSP3-10/S2300	8039421	9.14	FB-WWAK4-2-FB-WWAK4/S2300	8039307	9.9
FB-SSP3-2/S2300	8039419	9.14	FB-WWAK4-2-FB-WWAS4/S2300	8035949	9.10
FB-SSP3-5/S2300	8035870	9.14	FB-WWAK4-5/P00	8024461	2.27
FB-SSP4-10/S2300	8039423	9.14	FB-WWAK4-5/S2300	8033667	9.2
FB-SSP4-2/S2300	8039422	9.14	FB-WWAK4-5-FB-WWAK4/S2300	8033693	9.9
FB-SSP4-5/S2300	8035871	9.14	FB-WWAK4-5-FB-WWAS4/S2300	8033689	9.10
FB-SWKP3-10/S2300	8039417	9.13	FB-WWAK4P2-10/S2300	8036273	9.3
FB-SWKP3-10-FB-SWSP3/S2300	8039704	9.18	FB-WWAK4P2-2/S2300	8038290	9.3
FB-SWKP3-2/S2300	8039416	9.13	FB-WWAK4P2-5/S2300	8035643	9.3
FB-SWKP3-2-FB-SWSP3/S2300	8039702	9.18	FB-WWAK5-10/P00	8024608	2.27
FB-SWKP3-5/S2300	8035868	9.13	FB-WWAK5-15/P00	8024609	2.27
FB-SWKP3-5-FB-SWSP3/S2300	8039703	9.18	FB-WWAK5-5/P00	8024473	2.27
FB-SWKP4-10/S2300	8039420	9.13	FB-WWAS4-10/P00	8024621	2.50
FB-SWKP4-10-FB-SWSP4/S2300	8039707	9.19	FB-WWAS4-10/S2300	8033674	9.5
FB-SWKP4-2/S2300	8039418	9.13	FB-WWAS4-10-FB-WWAS4/S2300	8033698	9.11
FB-SWKP4-2-FB-SWSP4/S2300	8039705	9.19	FB-WWAS4-15/P00	8024622	2.50
FB-SWKP4-5/S2300	8035869	9.13	FB-WWAS4-2/S2300	8039304	9.5
FB-SWKP4-5-FB-SWSP4/S2300	8039706	9.19	FB-WWAS4-2-FB-WWAS4/S2300	8039308	9.11
FB-SWSP3-10/S2300	8039425	9.15	FB-WWAS4-5/P00	8024466	2.50
FB-SWSP3-2/S2300	8039424	9.15	FB-WWAS4-5/S2300	8033673	9.5
FB-SWSP3-5/S2300	8035872	9.15	FB-WWAS4-5-FB-WWAS4/S2300	8033697	9.11
FB-SWSP4-10/S2300	8039427	9.15	FB-WWAS5-10/P00	8024614	2.50
FB-SWSP4-2/S2300	8039426	9.15	FB-WWAS5-15/P00	8024615	2.50
FB-SWSP4-5/S2300	8035873	9.15	FB-WWAS5-5/P00	8024470	2.50
FB-WAK4-10/P00	8024603	2.9	FC-WAK3-0,3-FC-WAS3/S2010	8027155	4.9
FB-WAK4-10/S2300	8033665	9.1	FC-WAK3-0,3-FC-WAS3/S2020	8027176	4.9
FB-WAK4-10-FB-WAK4/S2300	8033682	9.6	FC-WAK3-0,6-FC-WAS3/S2010	8027156	4.9
FB-WAK4-10-FB-WAS4/S2300	8033678	9.7	FC-WAK3-0,6-FC-WAS3/S2020	8027177	4.9
FB-WAK4-15/P00	8024604	2.9	FC-WAK3-1,5-FC-WAS3/S2010	8027158	4.9
FB-WAK4-2/S2300	8034191	9.1	FC-WAK3-1,5-FC-WAS3/S2020	8027179	4.9
FB-WAK4-2-FB-WAK4/S2300	8039305	9.6	FC-WAK3-10/S2010	8025125	4.1
FB-WAK4-2-FB-WAS4/S2300	8034685	9.7	FC-WAK3-10/S2020	8025137	4.1
FB-WAK4-5/P00	8024460	2.9	FC-WAK3-1-FC-WAS3/S2010	8027157	4.9
FB-WAK4-5/S2300	8033664	9.1	FC-WAK3-1-FC-WAS3/S2020	8027178	4.9
FB-WAK4-5-FB-WAK4/S2300	8033681	9.6	FC-WAK3-2/S2010	8025124	4.1
FB-WAK4-5-FB-WAS4/S2300	8033677	9.7	FC-WAK3-2/S2020	8025135	4.1
FB-WAK5-10/P00	8024605	2.9	FC-WAK3-2-FC-WAS3/S2010	8027159	4.9
FB-WAK5-15/P00	8024606	2.9	FC-WAK3-2-FC-WAS3/S2020	8027180	4.9
FB-WAK5-5/P00	8024472	2.9	FC-WAK3-5/S2010	8025084	4.1
FB-WAS4-10/P00	8024610	2.36	FC-WAK3-5/S2020	8025136	4.1
FB-WAS4-10/S2300	8033671	9.4	FC-WAK3-5-FC-WAS3/S2010	8027160	4.9
FB-WAS4-10-FB-WAS4/S2300	8033686	9.8	FC-WAK3-5-FC-WAS3/S2020	8027181	4.9
FB-WAS4-15/P00	8024611	2.36	FC-WAK4.5-10/S2010	8025131	4.2
FB-WAS4-2/S2300	8039303	9.4	FC-WAK4.5-10/S2020	8025151	4.2
FB-WAS4-2-FB-WAS4/S2300	8039306	9.8	FC-WAK4.5-2/S2010	8025129	4.2

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FC-WAK4.5-2/S2020	8025149	4.2	FC-WAS5-10/S2010	8027145	4.8
FC-WAK4.5-5/S2010	8025130	4.2	FC-WAS5-10/S2020	8027198	4.8
FC-WAK4.5-5/S2020	8025150	4.2	FC-WAS5-2/S2010	8027143	4.8
FC-WAK4-0,3-FC-WAS4/S2010	8027162	4.10	FC-WAS5-2/S2020	8020479	4.8
FC-WAK4-0,3-FC-WAS4/S2020	8027183	4.10	FC-WAS5-5/S2010	8027144	4.8
FC-WAK4-0,6-FC-WAS4/S2010	8027163	4.10	FC-WAS5-5/S2020	8027197	4.8
FC-WAK4-0,6-FC-WAS4/S2020	8027184	4.10	FC-WWAK3-0,3-FC-WAS3/S2010	8027023	4.12
FC-WAK4-1,5-FC-WAS4/S2010	8027165	4.10	FC-WWAK3-0,3-FC-WAS3/S2020	8027038	4.12
FC-WAK4-1,5-FC-WAS4/S2020	8027186	4.10	FC-WWAK3-0,6-FC-WAS3/S2010	8027024	4.12
FC-WAK4-10/S2010	8025128	4.1	FC-WWAK3-0,6-FC-WAS3/S2020	8027039	4.12
FC-WAK4-10/S2020	8025140	4.1	FC-WWAK3-1,5-FC-WAS3/S2010	8027026	4.12
FC-WAK4-1-FC-WAS4/S2010	8027164	4.10	FC-WWAK3-1,5-FC-WAS3/S2020	8027041	4.12
FC-WAK4-1-FC-WAS4/S2020	8027185	4.10	FC-WWAK3-10/S2010	8026870	4.3
FC-WAK4-2/S2010	8025126	4.1	FC-WWAK3-10/S2020	8026913	4.3
FC-WAK4-2/S2020	8020475	4.1	FC-WWAK3-1-FC-WAS3/S2010	8027025	4.12
FC-WAK4-2-FC-WAS4/S2010	8027166	4.10	FC-WWAK3-1-FC-WAS3/S2020	8027040	4.12
FC-WAK4-2-FC-WAS4/S2020	8027187	4.10	FC-WWAK3-2/S2010	8026875	4.3
FC-WAK4-5/S2010	8025127	4.1	FC-WWAK3-2/S2020	8026911	4.3
FC-WAK4-5/S2020	8025139	4.1	FC-WWAK3-2-FC-WAS3/S2010	8027027	4.12
FC-WAK4-5-FC-WAS4/S2010	8027167	4.10	FC-WWAK3-2-FC-WAS3/S2020	8027042	4.12
FC-WAK4-5-FC-WAS4/S2020	8027188	4.10	FC-WWAK3-5/S2010	8026876	4.3
FC-WAK5-0,3-FC-WAS5/S2010	8027169	4.11	FC-WWAK3-5/S2020	8026912	4.3
FC-WAK5-0,3-FC-WAS5/S2020	8027190	4.11	FC-WWAK3-5-FC-WAS3/S2010	8027028	4.12
FC-WAK5-0,6-FC-WAS5/S2010	8027170	4.11	FC-WWAK3-5-FC-WAS3/S2020	8027043	4.12
FC-WAK5-0,6-FC-WAS5/S2020	8027191	4.11	FC-WWAK3P2-0,3-FC-WAS3/S2010	8027066	4.15
FC-WAK5-1,5-FC-WAS5/S2010	8027172	4.11	FC-WWAK3P2-0,3-WAS3/S2020	8027088	4.15
FC-WAK5-1,5-FC-WAS5/S2020	8027193	4.11	FC-WWAK3P2-0,6-WAS3/S2010	8027067	4.15
FC-WAK5-10/S2010	8025133	4.2	FC-WWAK3P2-0,6-WAS3/S2020	8027090	4.15
FC-WAK5-10/S2020	8025154	4.2	FC-WWAK3P2-1,5-FC-WAS3/S2010	8027069	4.15
FC-WAK5-1-FC-WAS5/S2010	8027171	4.11	FC-WWAK3P2-1,5-WAS3/S2020	8027092	4.15
FC-WAK5-1-FC-WAS5/S2020	8027192	4.11	FC-WWAK3P2-10/S2010	8026941	4.5
FC-WAK5-2/S2010	8025132	4.2	FC-WWAK3P2-10/S2020	8026967	4.5
FC-WAK5-2/S2020	8025152	4.2	FC-WWAK3P2-1-FC-WAS3/S2010	8027068	4.15
FC-WAK5-2-FC-WAS5/S2010	8027174	4.11	FC-WWAK3P2-1-FC-WAS3/S2020	8027091	4.15
FC-WAK5-2-FC-WAS5/S2020	8027194	4.11	FC-WWAK3P2-2/S2010	8026939	4.5
FC-WAK5-5/S2010	8025134	4.2	FC-WWAK3P2-2/S2020	8026965	4.5
FC-WAK5-5/S2020	8025153	4.2	FC-WWAK3P2-2-FC-WAS3/S2010	8027070	4.15
FC-WAK5-5-FC-WAS5/S2010	8027173	4.11	FC-WWAK3P2-2-WAS3/S2020	8027093	4.15
FC-WAK5-5-FC-WAS5/S2020	8027195	4.11	FC-WWAK3P2-5/S2010	8026940	4.5
FC-WAS3-10/S2010	8027136	4.7	FC-WWAK3P2-5/S2020	8026966	4.5
FC-WAS3-10/S2020	8027148	4.7	FC-WWAK3P2-5-WAS3/S2010	8027071	4.15
FC-WAS3-2/S2010	8027134	4.7	FC-WWAK3P2-5-WAS3/S2020	8027094	4.15
FC-WAS3-2/S2020	8027146	4.7	FC-WWAK4.5-10/S2010	8026890	4.4
FC-WAS3-5/S2010	8027135	4.7	FC-WWAK4.5-10/S2020	8026927	4.4
FC-WAS3-5/S2020	8027147	4.7	FC-WWAK4.5-2/S2010	8026888	4.4
FC-WAS4.5-10/S2010	8027142	4.8	FC-WWAK4.5-2/S2020	8026925	4.4
FC-WAS4.5-10/S2020	8027154	4.8	FC-WWAK4.5-5/S2010	8026889	4.4
FC-WAS4.5-2/S2010	8027140	4.8	FC-WWAK4.5-5/S2020	8026926	4.4
FC-WAS4.5-2/S2020	8027151	4.8	FC-WWAK4-0,3-FC-WAS4/S2010	8027030	4.13
FC-WAS4.5-5/S2010	8027141	4.8	FC-WWAK4-0,3-FC-WAS4/S2020	8027045	4.13
FC-WAS4.5-5/S2020	8027153	4.8	FC-WWAK4-0,6-FC-WAS4/S2010	8027032	4.13
FC-WAS4-10/S2010	8027139	4.7	FC-WWAK4-0,6-FC-WAS4/S2020	8027046	4.13
FC-WAS4-10/S2020	8027150	4.7	FC-WWAK4-1,5-FC-WAS4/S2010	8027034	4.13
FC-WAS4-2/S2010	8027137	4.7	FC-WWAK4-1,5-FC-WAS4/S2020	8027048	4.13
FC-WAS4-2/S2020	8024476	4.7	FC-WWAK4-10/S2010	8026883	4.3
FC-WAS4-5/S2010	8027138	4.7	FC-WWAK4-10/S2020	8026920	4.3
FC-WAS4-5/S2020	8027149	4.7	FC-WWAK4-1-FC-WAS4/S2010	8027033	4.13

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FC-WWAK4-2/S2010	8026881	4.3	FKM4-2SP3-0,3/0,3/S90	8008086	12.19
FC-WWAK4-2/S2020	8026918	4.3	FKM4-2SP3-0,3/0,3/XOR	8009620	12.19
FC-WWAK4-2-FC-WAS4/S2010	8027035	4.13	FKM4-2SP3-0,6/0,6/P00	8008088	12.19
FC-WWAK4-2-FC-WAS4/S2020	8027049	4.13	FKM4-2SP3-0,6/0,6/S366	8026176	12.19
FC-WWAK4-5/S2010	8026882	4.3	FKM4-2SP3-0,6/0,6/S74	8008091	12.19
FC-WWAK4-5/S2020	8026919	4.3	FKM4-2SP3-0,6/0,6/S77/S398	8026183	12.19
FC-WWAK4-5-FC-WAS4/S2010	8027036	4.13	FKM4-2SP3-0,6/0,6/S90	8008089	12.19
FC-WWAK4-5-FC-WAS4/S2020	8027050	4.13	FKM4-2SP3-0,6/0,6/XOR	8008090	12.19
FC-WWAK4P3-10/S2010	8026955	4.6	FKM4-2SP3-1,5/1,5/P00	8008092	12.19
FC-WWAK4P3-10/S2020	8026983	4.6	FKM4-2SP3-1,5/1,5/S366	8026178	12.19
FC-WWAK4P3-2/S2010	8026953	4.6	FKM4-2SP3-1,5/1,5/S74	8008095	12.19
FC-WWAK4P3-2/S2020	8026981	4.6	FKM4-2SP3-1,5/1,5/S77/S398	8026185	12.19
FC-WWAK4P3-5/S2010	8026954	4.6	FKM4-2SP3-1,5/1,5/S90	8008093	12.19
FC-WWAK4P3-5/S2020	8026982	4.6	FKM4-2SP3-1,5/1,5/XOR	8008094	12.19
FC-WWAK5-0,3-FC-WAS5/S2010	8027052	4.14	FKM4-2SP3-1/1/P00	8009608	12.19
FC-WWAK5-0,3-FC-WAS5/S2020	8027059	4.14	FKM4-2SP3-1/1/S366	8026177	12.19
FC-WWAK5-0,6-FC-WAS5/S2010	8027053	4.14	FKM4-2SP3-1/1/S74	8009611	12.19
FC-WWAK5-0,6-FC-WAS5/S2020	8027060	4.14	FKM4-2SP3-1/1/S77/S398	8026184	12.19
FC-WWAK5-1,5-FC-WAS5/S2010	8027055	4.14	FKM4-2SP3-1/1/S90	8009609	12.19
FC-WWAK5-1,5-FC-WAS5/S2020	8027062	4.14	FKM4-2SP3-1/1/XOR	8009610	12.19
FC-WWAK5-10/S2010	8026897	4.4	FKM4-2SP3-2/2/P00	8009612	12.19
FC-WWAK5-10/S2020	8026934	4.4	FKM4-2SP3-2/2/S366	8026179	12.19
FC-WWAK5-1-FC-WAS5/S2010	8027054	4.14	FKM4-2SP3-2/2/S74	8009615	12.19
FC-WWAK5-1-FC-WAS5/S2020	8027061	4.14	FKM4-2SP3-2/2/S77/S398	8026186	12.19
FC-WWAK5-2/S2010	8026895	4.4	FKM4-2SP3-2/2/S90	8009613	12.19
FC-WWAK5-2/S2020	8026932	4.4	FKM4-2SP3-2/2/XOR	8009614	12.19
FC-WWAK5-2-FC-WAS5/S2010	8027056	4.14	FKM4-2SP3-5/5/P00	8009616	12.19
FC-WWAK5-2-FC-WAS5/S2020	8027063	4.14	FKM4-2SP3-5/5/S366	8026180	12.19
FC-WWAK5-5/S2010	8026896	4.4	FKM4-2SP3-5/5/S74	8009619	12.19
FC-WWAK5-5/S2020	8026933	4.4	FKM4-2SP3-5/5/S77/S398	8026187	12.19
FC-WWAK5-5-FC-WAS5/S2010	8027057	4.14	FKM4-2SP3-5/5/S90	8009617	12.19
FC-WWAK5-5-FC-WAS5/S2020	8027064	4.14	FKM4-2SP3-5/5/XOR	8009618	12.19
FK3-0,5	8006556	2.133	FKM4-2SSP3-0,3/0,3/P00	8008126	12.20
FK4-0,5	8006558	2.133	FKM4-2SSP3-0,3/0,3/S366	8026189	12.20
FK5-0,5	8008491	2.133	FKM4-2SSP3-0,3/0,3/S74	8008129	12.20
FK8-0,5	8011571	2.134	FKM4-2SSP3-0,3/0,3/S77/S398	8015606	12.20
FKD3-0,5	8006567	2.135	FKM4-2SSP3-0,3/0,3/S90	8008127	12.20
FKD4-0,5	8006569	2.135	FKM4-2SSP3-0,3/0,3/XOR	8008128	12.20
FKD5-0,5	8015251	2.135	FKM4-2-SSP3-0,6/0,6/P00	8008130	12.20
FKD8-0,5	8025224	2.136	FKM4-2SSP3-0,6/0,6/S366	8026190	12.20
FKFD4	8008494	2.137	FKM4-2SSP3-0,6/0,6/S74	8008133	12.20
FKFD4.5	8008485	2.137	FKM4-2SSP3-0,6/0,6/S77/S398	8026227	12.20
FKFD8	8015609	2.137	FKM4-2SSP3-0,6/0,6/S90	8008131	12.20
FKFDH4	8006600	2.138	FKM4-2SSP3-0,6/0,6/XOR	8008132	12.20
FKFDH5	8006596	2.138	FKM4-2SSP3-1,5/1,5/P00	8008134	12.20
FKFS4.5/M12	8018405	2.142	FKM4-2SSP3-1,5/1,5/S366	8026192	12.20
FKFS4/M12	8018404	2.141	FKM4-2SSP3-1,5/1,5/S74	8008137	12.20
FKFS8/M12	8018410	2.143	FKM4-2SSP3-1,5/1,5/S77/S398	8026229	12.20
FKM3-0,5	8008472	2.139	FKM4-2SSP3-1,5/1,5/S90	8008135	12.20
FKM3-ESP3S	8008083	2.156, 5.3	FKM4-2SSP3-1,5/1,5/XOR	8008136	12.20
FKM4-0,5	8008473	2.139	FKM4-2SSP3-1/1/P00	8009657	12.20
FKM4-2ESP3S	8008080	12.6	FKM4-2SSP3-1/1/S366	8026191	12.20
FKM4-2FSM3/S89	8012651	12.11	FKM4-2SSP3-1/1/S74	8009661	12.20
FKM4-2SP3-0,3/0,3/P00	8008085	12.19	FKM4-2SSP3-1/1/S77/S398	8026228	12.20
FKM4-2SP3-0,3/0,3/S366	8026175	12.19	FKM4-2SSP3-1/1/S90	8009658	12.20
FKM4-2SP3-0,3/0,3/S74	8008087	12.19	FKM4-2SSP3-1/1/XOR	8009659	12.20

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FKM4-2SSP3-2/2/P00	8009662	12.20	FS8-0,5	8011572	2.145
FKM4-2SSP3-2/2/S366	8026193	12.20	FSD3-0,5	8006570	2.147
FKM4-2SSP3-2/2/S74	8009666	12.20	FSD4-0,5	8006572	2.147
FKM4-2SSP3-2/2/S77/S398	8026230	12.20	FSD5-0,5	8006599	2.147
FKM4-2SSP3-2/2/S90	8009663	12.20	FSD8-0,5	8025588	2.148
FKM4-2SSP3-2/2/XOR	8009664	12.20	FSF4.5-0,5	8008483	2.151
FKM4-2SSP3-5/5/P00	8009667	12.20	FSF4-0,5	8013600	2.151
FKM4-2SSP3-5/5/S366	8026194	12.20	FSFD4	8008496	2.149
FKM4-2SSP3-5/5/S74	8009671	12.20	FSFD5	8040117	2.149
FKM4-2SSP3-5/5/S77/S398	8026231	12.20	FSFD8	8018371	2.149
FKM4-2SSP3-5/5/S90	8009668	12.20	FSFDH4	8006601	2.150
FKM4-2SSP3-5/5/XOR	8009669	12.20	FSFDH5	8011951	2.150
FKM4-2WAS3-0,3/0,3/P00	8008096	12.17	FSM2-2WAK3-1,5/1,5/S398	8018818	12.18
FKM4-2WAS3-0,3/0,3/S366	8026161	12.17	FSM3-SKP3	8008079	2.158, 5.4
FKM4-2WAS3-0,3/0,3/S74	8008100	12.17	FSM4-2KP3-0,3/0,3/P00	8008140	12.22
FKM4-2WAS3-0,3/0,3/S90	8008097	12.17	FSM4-2KP3-0,3/0,3/S366	8026203	12.22
FKM4-2WAS3-0,3/0,3/XOR	8008098	12.17	FSM4-2KP3-0,3/0,3/S74	8008143	12.22
FKM4-2WAS3-0,3-0,3/S398	8017860	12.17	FSM4-2KP3-0,3/0,3/S77/S398	8026210	12.22
FKM4-2WAS3-0,6/0,6/P00	8008101	12.17	FSM4-2KP3-0,3/0,3/S90	8008141	12.22
FKM4-2WAS3-0,6/0,6/S366	8026162	12.17	FSM4-2KP3-0,3/0,3/XOR	8008142	12.22
FKM4-2WAS3-0,6/0,6/S74	8008105	12.17	FSM4-2KP3-0,6/0,6/P00	8008144	12.22
FKM4-2WAS3-0,6/0,6/S90	8008102	12.17	FSM4-2KP3-0,6/0,6/S366	8026204	12.22
FKM4-2WAS3-0,6/0,6/XOR	8008103	12.17	FSM4-2KP3-0,6/0,6/S74	8008147	12.22
FKM4-2WAS3-0,6-0,6-S398	8019469	12.17	FSM4-2KP3-0,6/0,6/S77/S398	8026211	12.22
FKM4-2WAS3-1,5/1,5/P00	8008106	12.17	FSM4-2KP3-0,6/0,6/S90	8008145	12.22
FKM4-2WAS3-1,5/1,5/S366	8026164	12.17	FSM4-2KP3-0,6/0,6/XOR	8008146	12.22
FKM4-2WAS3-1,5/1,5/S398	8026224	12.17	FSM4-2KP3-1,5/1,5/P00	8008148	12.22
FKM4-2WAS3-1,5/1,5/S74	8008110	12.17	FSM4-2KP3-1,5/1,5/S366	8026206	12.22
FKM4-2WAS3-1,5/1,5/S90	8008107	12.17	FSM4-2KP3-1,5/1,5/S74	8008151	12.22
FKM4-2WAS3-1,5/1,5/XOR	8008108	12.17	FSM4-2KP3-1,5/1,5/S77/S398	8026213	12.22
FKM4-2WAS3-1/1/P00	8009622	12.17	FSM4-2KP3-1,5/1,5/S90	8008149	12.22
FKM4-2WAS3-1/1/S366	8026163	12.17	FSM4-2KP3-1,5/1,5/XOR	8008150	12.22
FKM4-2WAS3-1/1/S398	8018368	12.17	FSM4-2KP3-1/1/P00	8009676	12.22
FKM4-2WAS3-1/1/S74	8009626	12.17	FSM4-2KP3-1/1/S366	8026205	12.22
FKM4-2WAS3-1/1/S90	8009623	12.17	FSM4-2KP3-1/1/S74	8009680	12.22
FKM4-2WAS3-1/1/XOR	8009624	12.17	FSM4-2KP3-1/1/S77/S398	8026212	12.22
FKM4-2WAS3-2/2/P00	8009627	12.17	FSM4-2KP3-1/1/S90	8009677	12.22
FKM4-2WAS3-2/2/S366	8026165	12.17	FSM4-2KP3-1/1/XOR	8009678	12.22
FKM4-2WAS3-2/2/S398	8018927	12.17	FSM4-2KP3-2/2/P00	8009681	12.22
FKM4-2WAS3-2/2/S74	8009631	12.17	FSM4-2KP3-2/2/S366	8026207	12.22
FKM4-2WAS3-2/2/S90	8009628	12.17	FSM4-2KP3-2/2/S74	8009685	12.22
FKM4-2WAS3-2/2/XOR	8009629	12.17	FSM4-2KP3-2/2/S77/S398	8026214	12.22
FKM4-2WAS3-5/5/P00	8009632	12.17	FSM4-2KP3-2/2/S90	8009682	12.22
FKM4-2WAS3-5/5/S366	8026166	12.17	FSM4-2KP3-2/2/XOR	8009683	12.22
FKM4-2WAS3-5/5/S398	8026225	12.17	FSM4-2KP3-5/5/P00	8009686	12.22
FKM4-2WAS3-5/5/S74	8009636	12.17	FSM4-2KP3-5/5/S366	8026208	12.22
FKM4-2WAS3-5/5/S90	8009633	12.17	FSM4-2KP3-5/5/S74	8009690	12.22
FKM4-2WAS3-5/5/XOR	8009634	12.17	FSM4-2KP3-5/5/S77/S398	8026215	12.22
FKM4-ESP4S	8008084	2.157, 5.3	FSM4-2KP3-5/5/S90	8009687	12.22
FKM4-FKM4-FSM4	8009675	12.13	FSM4-2KP3-5/5/XOR	8009688	12.22
FKM5-FKM5-FSM5	8011661	12.13	FSM4-2SKP3	8008081	12.7
FKMC5K	8017230	2.16	FSM4-2SKP3/S55	8027000	12.5
FS3-0,5	8006559	2.144	FSM4-2SKP3/S89	8013058	12.12
FS4	8006560	2.146	FSM4-2SKP3-0,3/0,3/P00	8008053	12.21
FS4-0,5	8006561	2.144	FSM4-2SKP3-0,3/0,3/S366	8026196	12.21
FS5	8015334	2.146	FSM4-2SKP3-0,3/0,3/S74	8008056	12.21
FS5-0,5	8006598	2.144	FSM4-2SKP3-0,3/0,3/S77/S398	8026233	12.21

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FSM4-2SKP3-0,3/0,3/S90	8008054	12.21	FSM4-2WAK3-1,5/1,5/S89/S90	8009603	12.14
FSM4-2SKP3-0,3/0,3/XOR	8008055	12.21	FSM4-2WAK3-1,5/1,5/S89/XOR	8009604	12.14
FSM4-2SKP3-0,6/0,6/P00	8008057	12.21	FSM4-2WAK3-1,5/1,5/S90	8008076	12.18
FSM4-2SKP3-0,6/0,6/S366	8026197	12.21	FSM4-2WAK3-1,5/1,5/XOR	8008077	12.18
FSM4-2SKP3-0,6/0,6/S398/S77	8018846	12.21	FSM4-2WAK3-1/1/P00	8009560	12.18
FSM4-2SKP3-0,6/0,6/S74	8008060	12.21	FSM4-2WAK3-1/1/S366	8026170	12.18
FSM4-2SKP3-0,6/0,6/S90	8008058	12.21	FSM4-2WAK3-1/1/S398	8018058	12.18
FSM4-2SKP3-0,6/0,6/XOR	8008059	12.21	FSM4-2WAK3-1/1/S74	8009567	12.18
FSM4-2SKP3-1,0/1,0/S77/S398	8021290	12.21	FSM4-2WAK3-1/1/S89/P00	8009564	12.14
FSM4-2SKP3-1,0/1,0/S90	8009542	12.21	FSM4-2WAK3-1/1/S89/S74	8009565	12.14
FSM4-2SKP3-1,5/1,5/P00	8008061	12.21	FSM4-2WAK3-1/1/S89/S90	8009568	12.14
FSM4-2SKP3-1,5/1,5/S366	8026199	12.21	FSM4-2WAK3-1/1/S89/XOR	8009569	12.14
FSM4-2SKP3-1,5/1,5/S74	8008064	12.21	FSM4-2WAK3-1/1/S90	8009561	12.18
FSM4-2SKP3-1,5/1,5/S77/S38	8021806	12.21	FSM4-2WAK3-1/1/XOR	8009562	12.18
FSM4-2SKP3-1,5/1,5/S90	8008062	12.21	FSM4-2WAK3-2/2/P00	8009570	12.18
FSM4-2SKP3-1,5/1,5/XOR	8008063	12.21	FSM4-2WAK3-2/2/S366	8026172	12.18
FSM4-2SKP3-1/1/P00	8009541	12.21	FSM4-2WAK3-2/2/S398	8018753	12.18
FSM4-2SKP3-1/1/S366	8026198	12.21	FSM4-2WAK3-2/2/S74	8009577	12.18
FSM4-2SKP3-1/1/S74	8009545	12.21	FSM4-2WAK3-2/2/S89/P00	8009574	12.14
FSM4-2SKP3-1/1/XOR	8009543	12.21	FSM4-2WAK3-2/2/S89/S74	8009575	12.14
FSM4-2SKP3-2/2/P00	8009546	12.21	FSM4-2WAK3-2/2/S89/S90	8009578	12.14
FSM4-2SKP3-2/2/S366	8026200	12.21	FSM4-2WAK3-2/2/S89/XOR	8009579	12.14
FSM4-2SKP3-2/2/S74	8009550	12.21	FSM4-2WAK3-2/2/S90	8009571	12.18
FSM4-2SKP3-2/2/S77/S398	8026234	12.21	FSM4-2WAK3-2/2/XOR	8009572	12.18
FSM4-2SKP3-2/2/S90	8009547	12.21	FSM4-2WAK3-5/5/P00	8009580	12.18
FSM4-2SKP3-2/SXOR	8009548	12.21	FSM4-2WAK3-5/5/S398	8018820	12.18
FSM4-2SKP3-5/5/P00	8009551	12.21	FSM4-2WAK3-5/5/S74	8009587	12.18
FSM4-2SKP3-5/5/S366	8026201	12.21	FSM4-2WAK3-5/5/S89/P00	8009584	12.14
FSM4-2SKP3-5/5/S74	8009555	12.21	FSM4-2WAK3-5/5/S89/S74	8009585	12.14
FSM4-2SKP3-5/5/S77/S398	8026235	12.21	FSM4-2WAK3-5/5/S89/S90	8009588	12.14
FSM4-2SKP3-5/5/S90	8009552	12.21	FSM4-2WAK3-5/5/S89/XOR	8009589	12.14
FSM4-2SKP3-5/5/XOR	8009553	12.21	FSM4-2WAK3-5/5/S90	8009581	12.18
FSM4-2WAK3-0,3/0,3/P00	8008065	12.18	FSM4-2WAK3-5/5/XOR	8009582	12.18
FSM4-2WAK3-0,3/0,3/S398	8017324	12.18	FSM4-2WAKS3-5/5/S366	8026173	12.18
FSM4-2WAK3-0,3/0,3/S74	8008069	12.18	FSM4-SKP4	8008138	2.159, 5.4
FSM4-2WAK3-0,3/0,3/S89/P00	8009590	12.14	FSM5-2FKM5.4/S55	8018720	12.4
FSM4-2WAK3-0,3/0,3/S89/S74	8009591	12.14	FSM5-2VAS-2.048-0,6/S90	8008120	12.23
FSM4-2WAK3-0,3/0,3/S89/S90	8008715	12.14	FSM5-2VAS22-2.048-0,3/0,3/S366	8026217	12.23
FSM4-2WAK3-0,3/0,3/S89/XOR	8009593	12.14	FSM5-2VAS22-2.048-0,3/0,3/S398	8026237	12.23
FSM4-2WAK3-0,3/0,3/S90	8008066	12.18	FSM5-2VAS22-2.048-0,3/0,3/S74	8008118	12.23
FSM4-2WAK3-0,3/0,3/XOR	8008067	12.18	FSM5-2VAS22-2.048-0,3/0,3/S90	8008116	12.23
FSM4-2WAK3-0,3-0,3/S366	8026168	12.18	FSM5-2VAS-22-2.048-0,3/0,3/XOR	8008117	12.23
FSM4-2WAK3-0,6/0,6/P00	8008070	12.18	FSM5-2VAS22-2.048-0,6/0,6/P00	8008119	12.23
FSM4-2WAK3-0,6/0,6/S366	8026169	12.18	FSM5-2VAS22-2.048-0,6/0,6/S366	8026218	12.23
FSM4-2WAK3-0,6/0,6/S398	8018817	12.18	FSM5-2VAS22-2.048-0,6/0,6/S398	8017828	12.23
FSM4-2WAK3-0,6/0,6/S74	8008074	12.18	FSM5-2VAS22-2.048-0,6/0,6/S74	8008122	12.23
FSM4-2WAK3-0,6/0,6/S89/P00	8009594	12.14	FSM5-2VAS22-2.048-0,6/0,6/XOR	8008121	12.23
FSM4-2WAK3-0,6/0,6/S89/S74	8009595	12.14	FSM5-2VAS-22-2.048-03/0,3/P00	8008115	12.23
FSM4-2WAK3-0,6/0,6/S89/S90	8009597	12.14	FSM5-2VAS22-2.048-1,5/1,5/P00	8009655	12.23
FSM4-2WAK3-0,6/0,6/S89/XOR	8009598	12.14	FSM5-2VAS22-2.048-1,5/1,5/S366	8026220	12.23
FSM4-2WAK3-0,6/0,6/S90	8008071	12.18	FSM5-2VAS22-2.048-1,5/1,5/S398	8026238	12.23
FSM4-2WAK3-0,6/0,6/XOR	8008072	12.18	FSM5-2VAS22-2.048-1,5/1,5/S74	8008125	12.23
FSM4-2WAK3-1,5/1,5/P00	8008075	12.18	FSM5-2VAS22-2.048-1,5/1,5/S90	8008123	12.23
FSM4-2WAK3-1,5/1,5/S366	8026171	12.18	FSM5-2VAS22-2.048-1,5/1,5/XOR	8008124	12.23
FSM4-2WAK3-1,5/1,5/S74	8008078	12.18	FSM5-2VAS22-2.048-1/1/P00	8009638	12.23
FSM4-2WAK3-1,5/1,5/S89/P00	8009600	12.14	FSM5-2VAS22-2.048-1/1/S366	8026219	12.23
FSM4-2WAK3-1,5/1,5/S89/S74	8009601	12.14	FSM5-2VAS22-2.048-1/1/S398	8019404	12.23

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FSM5-2VAS22-2.048-1/1/S74	8009642	12.23	KP3-10/S90	8007286	5.1
FSM5-2VAS22-2.048-1/1/S90	8009639	12.23	KP3-10/XOR	8007287	5.1
FSM5-2VAS22-2.048-1/1/XOR	8009640	12.23	KP3-1-SP3/P00	8022472	11.55
FSM5-2VAS22-2.048-2,0/2,0/S90	8009644	12.23	KP3-1-SP3/S366	8022490	11.55
FSM5-2VAS22-2.048-2/2/P00	8009643	12.23	KP3-1-SP3/S74	8022484	11.55
FSM5-2VAS22-2.048-2/2/S366	8026221	12.23	KP3-1-SP3/S77/S398	8024058	11.55
FSM5-2VAS22-2.048-2/2/S398	8026239	12.23	KP3-1-SP3/S90	8009695	11.55
FSM5-2VAS22-2.048-2/2/S74	8009647	12.23	KP3-1-SP3/XOR	8022478	11.55
FSM5-2VAS22-2.048-2/2/XOR	8009645	12.23	KP3-1-WAS3/P00	8007754	11.37
FSM5-2VAS22-2.048-5/5/P00	8009648	12.23	KP3-1-WAS3/S366	8023798	11.37
FSM5-2VAS22-2.048-5/5/S398	8026240	12.23	KP3-1-WAS3/S74	8007757	11.37
FSM5-2VAS22-2.048-5/5/S74	8009652	12.23	KP3-1-WAS3/S77/S398	8023805	11.37
FSM5-2VAS22-2.048-5/5/S90	8009649	12.23	KP3-1-WAS3/S90	8007755	11.37
FSM5-2VAS22-2.048-5/5/XOR	8009650	12.23	KP3-1-WAS3/XOR	8007756	11.37
FSM5-2VAS22-2-2.048-5/5/S366	8026223	12.23	KP3-2/P00	8007277	5.1
FSMC4K	8017231	2.43	KP3-2/S366	8023365	5.1
K			KP3-2/S74	8007280	5.1
KP3-0,3-SP3/P00	8022470	11.55	KP3-2/S77/S398	8025709	5.1
KP3-0,3-SP3/S366	8022488	11.55	KP3-2/S90	8007278	5.1
KP3-0,3-SP3/S74	8022482	11.55	KP3-2/XOR	8007279	5.1
KP3-0,3-SP3/S77/S398	8024056	11.55	KP3-2-SP3/P00	8009696	11.55
KP3-0,3-SP3/S90	8009701	11.55	KP3-2-SP3/S366	8022492	11.55
KP3-0,3-SP3/XOR	8022476	11.55	KP3-2-SP3/S74	8009699	11.55
KP3-0,3-WAS3/P00	8007766	11.37	KP3-2-SP3/S77/S398	8024060	11.55
KP3-0,3-WAS3/S366	8023796	11.37	KP3-2-SP3/S90	8009697	11.55
KP3-0,3-WAS3/S74	8007769	11.37	KP3-2-SP3/XOR	8009698	11.55
KP3-0,3-WAS3/S77/S398	8023803	11.37	KP3-2-WAS3/P00	8007758	11.37
KP3-0,3-WAS3/S90	8007767	11.37	KP3-2-WAS3/S366	8023800	11.37
KP3-0,3-WAS3/XOR	8007768	11.37	KP3-2-WAS3/S74	8007761	11.37
KP3-0,6-SP3/P00	8022471	11.55	KP3-2-WAS3/S77/S398	8023807	11.37
KP3-0,6-SP3/S366	8022489	11.55	KP3-2-WAS3/S90	8007759	11.37
KP3-0,6-SP3/S74	8022483	11.55	KP3-2-WAS3/XOR	8007760	11.37
KP3-0,6-SP3/S77/S398	8024057	11.55	KP3-5/P00	8007281	5.1
KP3-0,6-SP3/S90	8009702	11.55	KP3-5/S366	8023366	5.1
KP3-0,6-SP3/XOR	8022477	11.55	KP3-5/S74	8007284	5.1
KP3-0,6-WAS3/P00	8007770	11.37	KP3-5/S77/S398	8023368	5.1
KP3-0,6-WAS3/S366	8023797	11.37	KP3-5/S90	8007282	5.1
KP3-0,6-WAS3/S74	8007773	11.37	KP3-5/XOR	8007283	5.1
KP3-0,6-WAS3/S77/S398	8023804	11.37	KP3-5-SP3/P00	8009700	11.55
KP3-0,6-WAS3/S90	8007771	11.37	KP3-5-SP3/S366	8022493	11.55
KP3-0,6-WAS3/XOR	8007772	11.37	KP3-5-SP3/S74	8022486	11.55
KP3-1,5-SP3/P00	8022473	11.55	KP3-5-SP3/S77/S398	8024061	11.55
KP3-1,5-SP3/S366	8022491	11.55	KP3-5-SP3/S90	8021129	11.55
KP3-1,5-SP3/S74	8022485	11.55	KP3-5-SP3/XOR	8022480	11.55
KP3-1,5-SP3/S77/S398	8024059	11.55	KP3-5-WAS3/P00	8007762	11.37
KP3-1,5-SP3/S90	8009703	11.55	KP3-5-WAS3/S366	8023801	11.37
KP3-1,5-SP3/XOR	8022479	11.55	KP3-5-WAS3/S74	8007765	11.37
KP3-1,5-WAS3/P00	8007774	11.37	KP3-5-WAS3/S77/S398	8023808	11.37
KP3-1,5-WAS3/S366	8023799	11.37	KP3-5-WAS3/S90	8007763	11.37
KP3-1,5-WAS3/S74	8007777	11.37	KP3-5-WAS3/XOR	8007764	11.37
KP3-1,5-WAS3/S77/S398	8023806	11.37	KP4-0,3-SP4/P00	8022502	11.56
KP3-1,5-WAS3/S90	8007775	11.37	KP4-0,3-SP4/S77/S366	8024063	11.56
KP3-1,5-WAS3/XOR	8007776	11.37	KP4-0,3-SP4/S77/S398	8024070	11.56
KP3-10/P00	8007285	5.1	KP4-0,3-SP4/S90	8022508	11.56
KP3-10/S366	8023367	5.1	KP4-0,3-SP4/XOR	8022515	11.56
KP3-10/S74	8007288	5.1	KP4-0,3-WAS4/P00	8007784	11.38
KP3-10/S77/S398	8023369	5.1	KP4-0,3-WAS4/S77/S366	8023810	11.38

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KP4-0,3-WAS4/S77/S398	8023817	11.38	KP4-5/XOR	8009412	5.1
KP4-0,3-WAS4/S90	8007785	11.38	KP4-5-SP4/P00	8022505	11.56
KP4-0,3-WAS4/XOR	8009518	11.38	KP4-5-SP4/S77/S366	8024068	11.56
KP4-0,6-SP4/P00	8022503	11.56	KP4-5-SP4/S77/S398	8024075	11.56
KP4-0,6-SP4/S77/S366	8024064	11.56	KP4-5-SP4/S90	8022513	11.56
KP4-0,6-SP4/S77/S398	8024071	11.56	KP4-5-SP4/XOR	8022520	11.56
KP4-0,6-SP4/S90	8022509	11.56	KP4-5-WAS4/P00	8007782	11.38
KP4-0,6-SP4/XOR	8022516	11.56	KP4-5-WAS4/S77/S366	8023815	11.38
KP4-0,6-WAS4/P00	8007786	11.38	KP4-5-WAS4/S77/S398	8023822	11.38
KP4-0,6-WAS4/S77/S366	8023811	11.38	KP4-5-WAS4/S90	8007783	11.38
KP4-0,6-WAS4/S77/S398	8023818	11.38	KP4-5-WAS4/XOR	8009517	11.38
KP4-0,6-WAS4/S90	8007787	11.38	KP6-10/P00	8007276	5.2
KP4-0,6-WAS4/XOR	8009519	11.38	KP6-2/P00	8007274	5.2
KP4-1,5-SP4/P00	8022504	11.56	KP6-5/P00	8007275	5.2
KP4-1,5-SP4/S77/S366	8024066	11.56	M		
KP4-1,5-SP4/S77/S398	8024073	11.56	MB-2SKP3-0,3-SSP4/P00	8027944	12.26
KP4-1,5-SP4/S90	8022511	11.56	MB-2SKP3-0,3-SSP4/S77/S366	8027957	12.26
KP4-1,5-SP4/XOR	8022518	11.56	MB-2SKP3-0,3-SSP4/S77/S398	8027971	12.26
KP4-1,5-WAS4/P00	8007788	11.38	MB-2SKP3-0,3-SSP4/S90	8027950	12.26
KP4-1,5-WAS4/S77/S366	8023813	11.38	MB-2SKP3-0,3-SSP4/XOR	8027964	12.26
KP4-1,5-WAS4/S77/S398	8023820	11.38	MB-2SKP3-0,6-SSP4/P00	8027945	12.26
KP4-1,5-WAS4/S90	8007789	11.38	MB-2SKP3-0,6-SSP4/S77/S366	8027958	12.26
KP4-1,5-WAS4/XOR	8009520	11.38	MB-2SKP3-0,6-SSP4/S77/S398	8027972	12.26
KP4-10/P00	8007293	5.1	MB-2SKP3-0,6-SSP4/S90	8027951	12.26
KP4-10/S77/S366	8023372	5.1	MB-2SKP3-0,6-SSP4/XOR	8027965	12.26
KP4-10/S77/S398	8023375	5.1	MB-2SKP3-1,5-SSP4/P00	8027946	12.26
KP4-10/S90	8007294	5.1	MB-2SKP3-1,5-SSP4/S77/S366	8027960	12.26
KP4-10/XOR	8009413	5.1	MB-2SKP3-1,5-SSP4/S77/S398	8027974	12.26
KP4-1-SP4/P00	8017150	11.56	MB-2SKP3-1,5-SSP4/S90	8027953	12.26
KP4-1-SP4/S77/S366	8024065	11.56	MB-2SKP3-1,5-SSP4/XOR	8027967	12.26
KP4-1-SP4/S77/S398	8024072	11.56	MB-2SKP3-1-SSP4/P00	8025703	12.26
KP4-1-SP4/S90	8022510	11.56	MB-2SKP3-1-SSP4/S77/S366	8027959	12.26
KP4-1-SP4/XOR	8022517	11.56	MB-2SKP3-1-SSP4/S77/S398	8027973	12.26
KP4-1-WAS4/P00	8007778	11.38	MB-2SKP3-1-SSP4/S90	8027952	12.26
KP4-1-WAS4/S77/S366	8023812	11.38	MB-2SKP3-1-SSP4/XOR	8027966	12.26
KP4-1-WAS4/S77/S398	8023819	11.38	MB-2SKP3-2-SSP4/P00	8027947	12.26
KP4-1-WAS4/S90	8007779	11.38	MB-2SKP3-2-SSP4/S77/S366	8027961	12.26
KP4-1-WAS4/XOR	8009515	11.38	MB-2SKP3-2-SSP4/S77/S398	8027975	12.26
KP4-2/P00	8007289	5.1	MB-2SKP3-2-SSP4/S90	8027954	12.26
KP4-2/S77/S366	8023370	5.1	MB-2SKP3-2-SSP4/XOR	8027968	12.26
KP4-2/S77/S398	8023373	5.1	MB-2SKP3-5-SSP4/P00	8027948	12.26
KP4-2/S90	8007290	5.1	MB-2SKP3-5-SSP4/S77/S366	8027962	12.26
KP4-2/XOR	8009411	5.1	MB-2SKP3-5-SSP4/S77/S398	8027976	12.26
KP4-2-SP4/P00	8017264	11.56	MB-2SKP3-5-SSP4/S90	8027955	12.26
KP4-2-SP4/S77/S366	8024067	11.56	MB-2SKP3-5-SSP4/XOR	8027969	12.26
KP4-2-SP4/S77/S398	8024074	11.56	MB-2SKP3P3-0,3-SSP4/P00	8027978	12.27
KP4-2-SP4/S90	8022512	11.56	MB-2SKP3P3-0,3-SSP4/S77/S366	8027991	12.27
KP4-2-SP4/XOR	8022519	11.56	MB-2SKP3P3-0,3-SSP4/S77/S398	8028005	12.27
KP4-2-WAS4/P00	8007780	11.38	MB-2SKP3P3-0,3-SSP4/S90	8027984	12.27
KP4-2-WAS4/S77/S366	8023814	11.38	MB-2SKP3P3-0,3-SSP4/XOR	8027998	12.27
KP4-2-WAS4/S77/S398	8023821	11.38	MB-2SKP3P3-0,6-SSP4/P00	8027979	12.27
KP4-2-WAS4/S90	8007781	11.38	MB-2SKP3P3-0,6-SSP4/S77/S366	8027992	12.27
KP4-2-WAS4/XOR	8009516	11.38	MB-2SKP3P3-0,6-SSP4/S77/S398	8028006	12.27
KP4-5/P00	8007291	5.1	MB-2SKP3P3-0,6-SSP4/S90	8027985	12.27
KP4-5/S77/S366	8023371	5.1	MB-2SKP3P3-0,6-SSP4/XOR	8027999	12.27
KP4-5/S77/S398	8023374	5.1	MB-2SKP3P3-1,5-SSP4/P00	8027980	12.27
KP4-5/S90	8007292	5.1	MB-2SKP3P3-1,5-SSP4/S77/S366	8027994	12.27

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MB-2SKP3P3-1,5-SSP4/S77/S398	8028008	12.27	MB-SSP4-2SKP3-1,5/1,5/S74	8027892	12.24
MB-2SKP3P3-1,5-SSP4/S90	8027987	12.27	MB-SSP4-2SKP3-1,5/1,5/S77/S398	8027900	12.24
MB-2SKP3P3-1,5-SSP4/XOR	8028001	12.27	MB-SSP4-2SKP3-1,5/1,5/S90	8027871	12.24
MB-2SKP3P3-1-SSP4/P00	8025700	12.27	MB-SSP4-2SKP3-1,5/1,5/XOR	8027885	12.24
MB-2SKP3P3-1-SSP4/S77/S366	8027993	12.27	MB-SSP4-2SKP3-1/1/P00	8025704	12.24
MB-2SKP3P3-1-SSP4/S77/S398	8028007	12.27	MB-SSP4-2SKP3-1/1/S366	8027877	12.24
MB-2SKP3P3-1-SSP4/S90	8027986	12.27	MB-SSP4-2SKP3-1/1/S74	8027891	12.24
MB-2SKP3P3-1-SSP4/XOR	8028000	12.27	MB-SSP4-2SKP3-1/1/S77/S398	8027899	12.24
MB-2SKP3P3-2-SSP4/P00	8027981	12.27	MB-SSP4-2SKP3-1/1/S90	8027870	12.24
MB-2SKP3P3-2-SSP4/S77/S366	8027995	12.27	MB-SSP4-2SKP3-1/1/XOR	8027884	12.24
MB-2SKP3P3-2-SSP4/S77/S398	8028009	12.27	MB-SSP4-2SKP3-2/2/P00	8027864	12.24
MB-2SKP3P3-2-SSP4/S90	8027988	12.27	MB-SSP4-2SKP3-2/2/S366	8027879	12.24
MB-2SKP3P3-2-SSP4/XOR	8028002	12.27	MB-SSP4-2SKP3-2/2/S74	8027894	12.24
MB-2SKP3P3-5-SSP4/P00	8027982	12.27	MB-SSP4-2SKP3-2/2/S77/S398	8027901	12.24
MB-2SKP3P3-5-SSP4/S77/S366	8027996	12.27	MB-SSP4-2SKP3-2/2/S90	8027872	12.24
MB-2SKP3P3-5-SSP4/S77/S398	8028010	12.27	MB-SSP4-2SKP3-2/2/XOR	8027886	12.24
MB-2SKP3P3-5-SSP4/S90	8027989	12.27	MB-SSP4-2SKP3-5/5/P00	8027865	12.24
MB-2SKP3P3-5-SSP4/XOR	8028003	12.27	MB-SSP4-2SKP3-5/5/S366	8027880	12.24
MB-4M12-5.4P2	8024415	13.7	MB-SSP4-2SKP3-5/5/S74	8027895	12.24
MB-4M12-5.4P2/S2000	8025612	13.8	MB-SSP4-2SKP3-5/5/S77/S398	8027902	12.24
MB-4M12-5.4P2-10/S366	8024427	13.13	MB-SSP4-2SKP3-5/5/S90	8027873	12.24
MB-4M12-5.4P2-2/S366	8024425	13.13	MB-SSP4-2SKP3-5/5/XOR	8027887	12.24
MB-4M12-5.4P2-5/S366	8024426	13.13	MB-SSP4-2SKP3P3	8024659	12.10
MB-4M12-5P3	8024414	13.5	MB-SSP4P3-2SKP3-0,3/0,3/P00	8028013	12.25
MB-4M12-5P3/S2000	8025617	13.6	MB-SSP4P3-2SKP3-0,3/0,3/S366	8027916	12.25
MB-4M12-5P3-10/S366	8024424	13.12	MB-SSP4P3-2SKP3-0,3/0,3/S74	8027930	12.25
MB-4M12-5P3-2/S366	8024422	13.12	MB-SSP4P3-2SKP3-0,3/0,3/S77/S398	8027937	12.25
MB-4M12-5P3-5/S366	8024423	13.12	MB-SSP4P3-2SKP3-0,3/0,3/S90	8027906	12.25
MB-8M12-5.4P2	8024413	13.3	MB-SSP4P3-2SKP3-0,3/0,3/XOR	8027923	12.25
MB-8M12-5.4P2/S2000	8025619	13.4	MB-SSP4P3-2SKP3-0,6/0,6/P00	8028014	12.25
MB-8M12-5.4P2-10/S366	8024421	13.11	MB-SSP4P3-2SKP3-0,6/0,6/S366	8027917	12.25
MB-8M12-5.4P2-2/S366	8024419	13.11	MB-SSP4P3-2SKP3-0,6/0,6/S74	8027931	12.25
MB-8M12-5.4P2-5/S366	8024420	13.11	MB-SSP4P3-2SKP3-0,6/0,6/S77/S398	8027938	12.25
MB-8M12-5P3	8024412	13.1	MB-SSP4P3-2SKP3-0,6/0,6/S90	8027908	12.25
MB-8M12-5P3/S2000	8025620	13.2	MB-SSP4P3-2SKP3-0,6/0,6/XOR	8027924	12.25
MB-8M12-5P3-10/S366	8024418	13.10	MB-SSP4P3-2SKP3-1,5/1,5/P00	8028015	12.25
MB-8M12-5P3-2/S366	8024416	13.10	MB-SSP4P3-2SKP3-1,5/1,5/S366	8027919	12.25
MB-8M12-5P3-5/S366	8024417	13.10	MB-SSP4P3-2SKP3-1,5/1,5/S74	8027933	12.25
MB-8M12-5P3-K-SK	8024428	13.16	MB-SSP4P3-2SKP3-1,5/1,5/S77/S398	8027940	12.25
MB-FKM5-FSM5-FKM5	8024976	12.3	MB-SSP4P3-2SKP3-1,5/1,5/S90	8027910	12.25
MB-FSM5-2FKM5.4	8024643	12.1	MB-SSP4P3-2SKP3-1,5/1,5/XOR	8027926	12.25
MB-FSM5-2FKM5.4P3	8024644	12.2	MB-SSP4P3-2SKP3-1/1/P00	8025701	12.25
MB-SSP4-2SKP3	8025693	12.9	MB-SSP4P3-2SKP3-1/1/S366	8027918	12.25
MB-SSP4-2SKP3-0,3/0,3/P00	8027861	12.24	MB-SSP4P3-2SKP3-1/1/S74	8027932	12.25
MB-SSP4-2SKP3-0,3/0,3/S366	8027875	12.24	MB-SSP4P3-2SKP3-1/1/S77/S398	8027939	12.25
MB-SSP4-2SKP3-0,3/0,3/S74	8027889	12.24	MB-SSP4P3-2SKP3-1/1/S90	8027909	12.25
MB-SSP4-2SKP3-0,3/0,3/S77/S398	8027897	12.24	MB-SSP4P3-2SKP3-1/1/XOR	8027925	12.25
MB-SSP4-2SKP3-0,3/0,3/S90	8027868	12.24	MB-SSP4P3-2SKP3-2/2/P00	8028016	12.25
MB-SSP4-2SKP3-0,3/0,3/XOR	8027882	12.24	MB-SSP4P3-2SKP3-2/2/S366	8027920	12.25
MB-SSP4-2SKP3-0,6/0,6/P00	8027862	12.24	MB-SSP4P3-2SKP3-2/2/S74	8027934	12.25
MB-SSP4-2SKP3-0,6/0,6/S366	8027876	12.24	MB-SSP4P3-2SKP3-2/2/S77/S398	8027941	12.25
MB-SSP4-2SKP3-0,6/0,6/S74	8027890	12.24	MB-SSP4P3-2SKP3-2/2/S90	8027913	12.25
MB-SSP4-2SKP3-0,6/0,6/S77/S398	8027898	12.24	MB-SSP4P3-2SKP3-2/2/XOR	8027927	12.25
MB-SSP4-2SKP3-0,6/0,6/S90	8027869	12.24	MB-SSP4P3-2SKP3-5/5/P00	8028017	12.25
MB-SSP4-2SKP3-0,6/0,6/XOR	8027883	12.24	MB-SSP4P3-2SKP3-5/5/S366	8027921	12.25
MB-SSP4-2SKP3-1,5/1,5/P00	8027863	12.24	MB-SSP4P3-2SKP3-5/5/S74	8027935	12.25
MB-SSP4-2SKP3-1,5/1,5/S366	8027878	12.24	MB-SSP4P3-2SKP3-5/5/S77/S398	8027942	12.25

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MB-SSP4P3-2SKP3-5/5/S90	8027914	12.25	SKP3-0,3-SSP3/S74	8020258	11.59
MB-SSP4P3-2SKP3-5/5/XOR	8027928	12.25	SKP3-0,3-SSP3/S77/S398	8024119	11.59
MKAU14.001-10/S1117	8029866	6.1	SKP3-0,3-SSP3/S90	8009496	11.59
MKAU14.001-10/S1118	8029868	6.1	SKP3-0,3-SSP3/XOR	8022743	11.59
MKAU14.001-2/S1117	8029796	6.1	SKP3-0,3-WAS3/P00	8007457	11.41
MKAU14.001-2/S1118	8029797	6.1	SKP3-0,3-WAS3/S366	8023852	11.41
MKAU14.001-5/S1117	8029865	6.1	SKP3-0,3-WAS3/S74	8007460	11.41
MKAU14.001-5/S1118	8029867	6.1	SKP3-0,3-WAS3/S77/S398	8023859	11.41
MKAU14.003-10/S1117	8029870	6.1	SKP3-0,3-WAS3/S90	8007458	11.41
MKAU14.003-10/S1118	8029872	6.1	SKP3-0,3-WAS3/XOR	8007459	11.41
MKAU14.003-2/S1117	8029798	6.1	SKP3-0,6-SSP3/P00	8008688	11.59
MKAU14.003-2/S1118	8029799	6.1	SKP3-0,6-SSP3/S366	8022780	11.59
MKAU14.003-5/S1117	8029869	6.1	SKP3-0,6-SSP3/S74	8020259	11.59
MKAU14.003-5/S1118	8029871	6.1	SKP3-0,6-SSP3/S77/S398	8024120	11.59
MKAU19.001-10/S1117	8029874	6.2	SKP3-0,6-SSP3/S90	8008689	11.59
MKAU19.001-10/S1118	8029876	6.2	SKP3-0,6-SSP3/XOR	8022744	11.59
MKAU19.001-2/S1117	8029813	6.2	SKP3-0,6-WAS3/P00	8007461	11.41
MKAU19.001-2/S1118	8029814	6.2	SKP3-0,6-WAS3/S366	8023853	11.41
MKAU19.001-5/S1117	8029873	6.2	SKP3-0,6-WAS3/S74	8007464	11.41
MKAU19.001-5/S1118	8029875	6.2	SKP3-0,6-WAS3/S77/S398	8023860	11.41
MKC12C	8017132	7.7	SKP3-0,6-WAS3/S90	8007462	11.41
MKC12L	8013694	7.5	SKP3-0,6-WAS3/XOR	8007463	11.41
MKC16C	8017131	7.7	SKP3-1,5-SSP3/P00	8016400	11.59
MKC16L	8013695	7.5	SKP3-1,5-SSP3/S366	8022782	11.59
MKC19C	8017130	7.8	SKP3-1,5-SSP3/S74	8020260	11.59
MKC19L	8013696	7.6	SKP3-1,5-SSP3/S77/S398	8024122	11.59
MKCU12.001-10/S366	8026033	7.1	SKP3-1,5-SSP3/S90	8008690	11.59
MKCU12.001-15/S366	8026035	7.1	SKP3-1,5-SSP3/XOR	8022746	11.59
MKCU12.001-5/S366	8026032	7.1	SKP3-1,5-WAS3/P00	8007465	11.41
MKCU12.003-10/S366	8026041	7.3	SKP3-1,5-WAS3/S366	8023855	11.41
MKCU12.003-15/S366	8026042	7.3	SKP3-1,5-WAS3/S74	8007468	11.41
MKCU12.003-5/S366	8026039	7.3	SKP3-1,5-WAS3/S77/S398	8023862	11.41
MKCU19.001-10/S366	8026037	7.2	SKP3-1,5-WAS3/S90	8007466	11.41
MKCU19.001-15/S366	8026038	7.2	SKP3-1,5-WAS3/XOR	8007467	11.41
MKCU19.001-5/S366	8026036	7.2	SKP3-10/P00	8007339	5.5
MKCU19.003-10/S366	8017222	7.4	SKP3-10/S2429/S2430	8039482	8.34
MKCU19.003-15/S366	8017223	7.4	SKP3-10/S366	8022181	5.5
MKCU19.003-5/S366	8017221	7.4	SKP3-10/S74	8007342	5.5
P			SKP3-10/S77/S398	8023511	5.5
PFA3	8016857	5.29	SKP3-10/S90	8007340	5.5
PFA4	8009729	5.29	SKP3-10/XOR	8007341	5.5
PFA6	8017872	5.29	SKP3-10-SSP3/S2429/S2430	8039974	8.38
PFS3-0,2	8008169	5.28	SKP3-1-SSP3/P00	8008682	11.59
PFS4-0,2	8008170	5.28	SKP3-1-SSP3/S366	8022781	11.59
PFS6-0,2	8019421	5.28	SKP3-1-SSP3/S74	8017853	11.59
PFS3-0,2	8008165	5.30	SKP3-1-SSP3/S77/S398	8024121	11.59
PFS3F-0,2	8008167	5.31	SKP3-1-SSP3/S90	8008683	11.59
PFS4-0,2	8008166	5.30	SKP3-1-SSP3/XOR	8022745	11.59
PFS4F-0,2	8008168	5.31	SKP3-1-WAS3/P00	8007445	11.41
PFS6-0,2	8025231	5.30	SKP3-1-WAS3/S366	8023854	11.41
S			SKP3-1-WAS3/S74	8007448	11.41
Sensor-Adapter push-pull, M12x1	8027612	4.16, 4.17	SKP3-1-WAS3/S77/S398	8023861	11.41
SESP3S	8008157	5.33	SKP3-1-WAS3/S90	8007446	11.41
SESP4S	8008158	5.33	SKP3-1-WAS3/XOR	8007447	11.41
SESP4S-2SKP3	8008082	12.8	SKP3-2/P00	8007331	5.5
SKP3-0,3-SSP3/P00	8008687	11.59	SKP3-2/S2429/S2430	8036605	8.34
SKP3-0,3-SSP3/S366	8022779	11.59	SKP3-2/S366	8022180	5.5

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SKP3-2/S74	8007334	5.5	SKP4-1,5-SSP4/P00	8017613	11.60
SKP3-2/S77/S398	8023388	5.5	SKP4-1,5-SSP4/S77/S366	8024129	11.60
SKP3-2/S90	8007332	5.5	SKP4-1,5-SSP4/S77/S398	8024136	11.60
SKP3-2/XOR	8007333	5.5	SKP4-1,5-SSP4/S90	8022753	11.60
SKP3-2-SSP3/P00	8008684	11.59	SKP4-1,5-SSP4/XOR	8022758	11.60
SKP3-2-SSP3/S2429/S2430	8039972	8.38	SKP4-1,5-WAS4/P00	8007479	11.42
SKP3-2-SSP3/S366	8022783	11.59	SKP4-1,5-WAS4/S77/S366	8023869	11.42
SKP3-2-SSP3/S74	8009495	11.59	SKP4-1,5-WAS4/S77/S398	8023876	11.42
SKP3-2-SSP3/S77/S398	8024123	11.59	SKP4-1,5-WAS4/S90	8007480	11.42
SKP3-2-SSP3/S90	8008685	11.59	SKP4-1,5-WAS4/XOR	8009456	11.42
SKP3-2-SSP3/XOR	8009494	11.59	SKP4-10/P00	8007347	5.5
SKP3-2-WAS3/P00	8007449	11.41	SKP4-10/S2429/S2430	8037215	8.34
SKP3-2-WAS3/S366	8023856	11.41	SKP4-10/S366	8028302	5.6
SKP3-2-WAS3/S74	8007452	11.41	SKP4-10/S77/S366	8022184	5.5
SKP3-2-WAS3/S77/S398	8023863	11.41	SKP4-10/S77/S398	8023783	5.5
SKP3-2-WAS3/S90	8007450	11.41	SKP4-10/S90	8007348	5.5
SKP3-2-WAS3/XOR	8007451	11.41	SKP4-10/XOR	8009423	5.5
SKP3-5/P00	8007335	5.5	SKP4-10-SSP4/S2429/S2430	8039977	8.39
SKP3-5/S2429/S2430	8036097	8.34	SKP4-1-SSP4/P00	8017614	11.60
SKP3-5/S366	8019758	5.5	SKP4-1-SSP4/S77/S366	8024128	11.60
SKP3-5/S74	8007338	5.5	SKP4-1-SSP4/S77/S398	8024135	11.60
SKP3-5/S77/S398	8023389	5.5	SKP4-1-SSP4/S90	8018729	11.60
SKP3-5/S90	8007336	5.5	SKP4-1-SSP4/XOR	8022757	11.60
SKP3-5/XOR	8007337	5.5	SKP4-1-WAS4/P00	8007469	11.42
SKP3-5-SSP3/P00	8022742	11.59	SKP4-1-WAS4/S77/S366	8023868	11.42
SKP3-5-SSP3/S2429/S2430	8039973	8.38	SKP4-1-WAS4/S77/S398	8023875	11.42
SKP3-5-SSP3/S366	8022784	11.59	SKP4-1-WAS4/S90	8007470	11.42
SKP3-5-SSP3/S74	8022749	11.59	SKP4-1-WAS4/XOR	8009451	11.42
SKP3-5-SSP3/S77/S398	8024124	11.59	SKP4-2/P00	8007343	5.5
SKP3-5-SSP3/S90	8008686	11.59	SKP4-2/S2429/S2430	8039483	8.34
SKP3-5-SSP3/XOR	8022747	11.59	SKP4-2/S77/S366	8022182	5.5
SKP3-5-WAS3/S366	8023857	11.41	SKP4-2/S77/S398	8023781	5.5
SKP3-5-WAS3/S74	8007456	11.41	SKP4-2/S90	8007344	5.5
SKP3-5-WAS3/S77/S398	8023864	11.41	SKP4-2/XOR	8009420	5.5
SKP3-5-WAS3/S90	8007454	11.41	SKP4-2-SSP4/P00	8009498	11.60
SKP3-5-WAS3/XOR	8007455	11.41	SKP4-2-SSP4/S2429/S2430	8039975	8.39
SKP3-5-WAS3-P00	8007453	11.41	SKP4-2-SSP4/S77/S366	8024130	11.60
SKP4-0,3-SSP4/P00	8017452	11.60	SKP4-2-SSP4/S77/S398	8024137	11.60
SKP4-0,3-SSP4/S77/S366	8024126	11.60	SKP4-2-SSP4/S90	8014303	11.60
SKP4-0,3-SSP4/S77/S398	8024133	11.60	SKP4-2-SSP4/XOR	8009499	11.60
SKP4-0,3-SSP4/S90	8022573	11.60	SKP4-2-WAS4/P00	8007471	11.42
SKP4-0,3-SSP4/XOR	8022755	11.60	SKP4-2-WAS4/S77/S366	8023870	11.42
SKP4-0,3-WAS4/P00	8007475	11.42	SKP4-2-WAS4/S77/S398	8023877	11.42
SKP4-0,3-WAS4/S77/S366	8023866	11.42	SKP4-2-WAS4/S90	8007472	11.42
SKP4-0,3-WAS4/S77/S398	8023873	11.42	SKP4-2-WAS4/XOR	8009452	11.42
SKP4-0,3-WAS4/S90	8007476	11.42	SKP4-5/P00	8007345	5.5
SKP4-0,3-WAS4/XOR	8009454	11.42	SKP4-5/S2429/S2430	8036098	8.34
SKP4-0,6-SSP4/P00	8022751	11.60	SKP4-5/S77/S366	8022183	5.5
SKP4-0,6-SSP4/S77/S366	8024127	11.60	SKP4-5/S77/S398	8023782	5.5
SKP4-0,6-SSP4/S77/S398	8024134	11.60	SKP4-5/S90	8007346	5.5
SKP4-0,6-SSP4/S90	8018728	11.60	SKP4-5/XOR	8009421	5.5
SKP4-0,6-SSP4/XOR	8022756	11.60	SKP4-5-SSP4/P00	8019844	11.60
SKP4-0,6-WAS4/P00	8007477	11.42	SKP4-5-SSP4/S2429/S2430	8039976	8.39
SKP4-0,6-WAS4/S77/S366	8023867	11.42	SKP4-5-SSP4/S77/S366	8024131	11.60
SKP4-0,6-WAS4/S77/S398	8023874	11.42	SKP4-5-SSP4/S77/S398	8024138	11.60
SKP4-0,6-WAS4/S90	8007478	11.42	SKP4-5-SSP4/S90	8009500	11.60
SKP4-0,6-WAS4/XOR	8009455	11.42	SKP4-5-SSP4/XOR	8022759	11.60

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SKP4-5-WAS4/P00	8007473	11.42	SP3-5/S366	8023391	5.17
SKP4-5-WAS4/S77/S366	8023871	11.42	SP3-5/S74	8007302	5.17
SKP4-5-WAS4/S77/S398	8023878	11.42	SP3-5/S77/S398	8023394	5.17
SKP4-5-WAS4/S90	8007474	11.42	SP3-5/S90	8007300	5.17
SKP4-5-WAS4/XOR	8009453	11.42	SP3-5/XOR	8007301	5.17
SKPC3K	8004833	5.7	SP4-10/P00	8007311	5.17
SKPC3S	8019721	5.8	SP4-10/S77/S366	8023398	5.17
SKPC4K	8004834	5.7	SP4-10/S77/S398	8023401	5.17
SKPC4S	8019722	5.23	SP4-10/S90	8007312	5.17
SKPS3-0,3-SSPS3/P00	8028335	11.61	SP4-10/XOR	8009416	5.17
SKPS3-0,3-SSPS3/S366	8028341	11.61	SP4-2/P00	8007307	5.17
SKPS3-0,6-SSPS3/P00	8028336	11.61	SP4-2/S77/S366	8023396	5.17
SKPS3-0,6-SSPS3/S366	8028342	11.61	SP4-2/S77/S398	8023399	5.17
SKPS3-1,5-SSPS3/P00	8028338	11.61	SP4-2/S90	8007308	5.17
SKPS3-1,5-SSPS3/S366	8028344	11.61	SP4-2/XOR	8009414	5.17
SKPS3-10/P00	8028294	5.6	SP4-5/P00	8007309	5.17
SKPS3-10/S366	8028297	5.6	SP4-5/S77/S366	8023397	5.17
SKPS3-1-SSPS3/P00	8028337	11.61	SP4-5/S77/S398	8023400	5.17
SKPS3-1-SSPS3/S366	8028343	11.61	SP4-5/S90	8007310	5.17
SKPS3-2/P00	8027199	5.6	SP4-5/XOR	8009415	5.17
SKPS3-2/S366	8028295	5.6	SP6-10/P00	8007273	5.18
SKPS3-2-SSPS3/P00	8027206	11.61	SP6-2/P00	8007271	5.18
SKPS3-2-SSPS3/S366	8028345	11.61	SP6-5/P00	8007272	5.18
SKPS3-5/P00	8028293	5.6	SSFP3-10/P00	8006697	5.21
SKPS3-5/S366	8028296	5.6	SSFP3-10/S366	8023410	5.21
SKPS3-5-SSP3/S366	8028346	11.61	SSFP3-10/S74	8006700	5.21
SKPS3-5-SSPS3/P00	8028339	11.61	SSFP3-10/S77/S398	8023413	5.21
SKPS4-0,3-SSPS4/P00	8028348	11.62	SSFP3-10/S90	8006698	5.21
SKPS4-0,3-SSPS4/S366	8028354	11.62	SSFP3-10/XOR	8006699	5.21
SKPS4-0,6-SSPS4/P00	8028349	11.62	SSFP3-2/P00	8006689	5.21
SKPS4-0,6-SSPS4/S366	8028355	11.62	SSFP3-2/S366	8023408	5.21
SKPS4-1,5-SSPS4/P00	8028351	11.62	SSFP3-2/S74	8006692	5.21
SKPS4-1,5-SSPS4/S366	8028357	11.62	SSFP3-2/S77/S398	8023411	5.21
SKPS4-10/P00	8028299	5.6	SSFP3-2/S90	8006690	5.21
SKPS4-1-SSPS4/P00	8028350	11.62	SSFP3-2/XOR	8006691	5.21
SKPS4-1-SSPS4/S366	8028356	11.62	SSFP3-5/P00	8006693	5.21
SKPS4-2/P00	8027200	5.6	SSFP3-5/S366	8023409	5.21
SKPS4-2/S366	8028300	5.6	SSFP3-5/S74	8006696	5.21
SKPS4-2-SSPS4/P00	8027207	11.62	SSFP3-5/S77/S398	8023412	5.21
SKPS4-2-SSPS4/S366	8028358	11.62	SSFP3-5/S90	8006694	5.21
SKPS4-5/P00	8028298	5.6	SSFP3-5/XOR	8006695	5.21
SKPS4-5/S366	8028301	5.6	SSFP4-10/P00	8023416	5.21
SKPS4-5-SSPS4/P00	8027352	11.62	SSFP4-10/S77/S366	8023425	5.21
SKPS4-5-SSPS4/S366	8028359	11.62	SSFP4-10/S77/S398	8023428	5.21
SP3-10/P00	8007303	5.17	SSFP4-10/S90	8023419	5.21
SP3-10/S366	8023392	5.17	SSFP4-10/XOR	8023422	5.21
SP3-10/S74	8007306	5.17	SSFP4-2/P00	8023414	5.21
SP3-10/S77/S398	8023395	5.17	SSFP4-2/S77/S366	8023423	5.21
SP3-10/S90	8007304	5.17	SSFP4-2/S77/S398	8023426	5.21
SP3-10/XOR	8007305	5.17	SSFP4-2/S90	8023417	5.21
SP3-2/P00	8007295	5.17	SSFP4-2/XOR	8023420	5.21
SP3-2/S366	8023390	5.17	SSFP4-5/P00	8023415	5.21
SP3-2/S74	8007298	5.17	SSFP4-5/S77/S366	8023424	5.21
SP3-2/S77/S398	8023393	5.17	SSFP4-5/S77/S398	8023427	5.21
SP3-2/S90	8007296	5.17	SSFP4-5/S90	8023418	5.21
SP3-2/XOR	8007297	5.17	SSFP4-5/XOR	8023421	5.21
SP3-5/P00	8007299	5.17	SSP3-10/P00	8007357	5.19

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SSP3-10/S2429/S2430	8039488	8.36	SV-WAK12-2-SV-WAS12/S366	8039687	3.17
SSP3-10/S366	8023404	5.19	SV-WAK12-5/S366	8039742	3.3
SSP3-10/S74	8007360	5.19	SV-WAK12-5-SV-WAS12/S366	8039688	3.17
SSP3-10/S77/S398	8023407	5.19	SV-WAK3-10/S366	8039435	3.1
SSP3-10/S90	8007358	5.19	SV-WAK3-10/S90	8039430	3.1
SSP3-10/XOR	8007359	5.19	SV-WAK3-10-SV-WAS3/S366	8039668	3.13
SSP3-2/P00	8007349	5.19	SV-WAK3-10-SV-WAS3/S90	8039641	3.13
SSP3-2/S2429/S2430	8039487	8.36	SV-WAK3-2/S366	8039434	3.1
SSP3-2/S366	8023402	5.19	SV-WAK3-2/S90	8038701	3.1
SSP3-2/S74	8007352	5.19	SV-WAK3-2-SV-WAS3/S366	8039665	3.13
SSP3-2/S77/S398	8023405	5.19	SV-WAK3-2-SV-WAS3/S90	8039591	3.13
SSP3-2/S90	8007350	5.19	SV-WAK3-5/S366	8038445	3.1
SSP3-2/XOR	8007351	5.19	SV-WAK3-5/S90	8038435	3.1
SSP3-5/P00	8007353	5.19	SV-WAK3-5-SV-WAS3/S366	8039667	3.13
SSP3-5/S2429/S2430	8036101	8.36	SV-WAK3-5-SV-WAS3/S90	8039592	3.13
SSP3-5/S366	8023403	5.19	SV-WAK4-10/S366	8038742	3.1
SSP3-5/S74	8007356	5.19	SV-WAK4-10/S90	8038576	3.1
SSP3-5/S77/S398	8023406	5.19	SV-WAK4-10-SV-WAS4/S366	8039672	3.14
SSP3-5/S90	8007354	5.19	SV-WAK4-10-SV-WAS4/S90	8039646	3.14
SSP3-5/XOR	8007355	5.19	SV-WAK4-2/S366	8038834	3.1
SSP4-10/P00	8007365	5.19	SV-WAK4-2/S90	8038523	3.1
SSP4-10/S2429/S2430	8039490	8.36	SV-WAK4-2-SV-WAS4/S366	8039670	3.14
SSP4-10/S77/S366	8023786	5.19	SV-WAK4-2-SV-WAS4/S90	8039642	3.14
SSP4-10/S77/S398	8023789	5.19	SV-WAK4-5/S366	8038336	3.1
SSP4-10/S90	8007366	5.19	SV-WAK4-5/S90	8038436	3.1
SSP4-10/XOR	8009430	5.19	SV-WAK4-5-SV-WAS4/S366	8039671	3.14
SSP4-2/P00	8007361	5.19	SV-WAK4-5-SV-WAS4/S90	8039644	3.14
SSP4-2/S2429/S2430	8039489	8.36	SV-WAK5-10/S366	8039437	3.2
SSP4-2/S77/S366	8023784	5.19	SV-WAK5-10/S90	8039429	3.2
SSP4-2/S77/S398	8023787	5.19	SV-WAK5-10-SV-WAS5/S366	8039675	3.15
SSP4-2/S90	8007362	5.19	SV-WAK5-10-SV-WAS5/S90	8039650	3.15
SSP4-2/XOR	8009428	5.19	SV-WAK5-2/S366	8039436	3.2
SSP4-5/P00	8007363	5.19	SV-WAK5-2/S90	8039428	3.2
SSP4-5/S2429/S2430	8036102	8.36	SV-WAK5-2-SV-WAS5/S366	8039673	3.15
SSP4-5/S77/S366	8023785	5.19	SV-WAK5-2-SV-WAS5/S90	8039648	3.15
SSP4-5/S77/S398	8023788	5.19	SV-WAK5-5/S366	8038446	3.2
SSP4-5/S90	8007364	5.19	SV-WAK5-5/S90	8038437	3.2
SSP4-5/XOR	8009429	5.19	SV-WAK5-5-SV-WAS5/S366	8039674	3.15
SSPC3K	8004831	5.22	SV-WAK5-5-SV-WAS5/S90	8039649	3.15
SSPC3S	8019720	5.23	SV-WAK8-10/S366	8039740	3.2
SSPC4K	8004832	5.22	SV-WAK8-10/S90	8039553	3.2
SSPC4S	8019723	5.8	SV-WAK8-10-SV-WAS8/S366	8039686	3.16
SSPS3-10/P00	8028316	5.20	SV-WAK8-10-SV-WAS8/S90	8039657	3.16
SSPS3-10/S366	8028319	5.20	SV-WAK8-2/S366	8039738	3.2
SSPS3-2/P00	8027201	5.20	SV-WAK8-2/S90	8039551	3.2
SSPS3-2/S366	8028317	5.20	SV-WAK8-2-SV-WAS8/S366	8039684	3.16
SSPS3-5/P00	8028315	5.20	SV-WAK8-2-SV-WAS8/S90	8039654	3.16
SSPS3-5/S366	8028318	5.20	SV-WAK8-5/S366	8039739	3.2
SSPS4-10/P00	8028321	5.20	SV-WAK8-5/S90	8039552	3.2
SSPS4-10/S366	8028324	5.20	SV-WAK8-5-SV-WAS8/S366	8039685	3.16
SSPS4-2/P00	8027203	5.20	SV-WAK8-5-SV-WAS8/S90	8039655	3.16
SSPS4-2/S366	8028322	5.20	SV-WAS12-10/S366	8039779	3.9
SSPS4-5/P00	8028320	5.20	SV-WAS12-2/S366	8039777	3.9
SSPS4-5/S366	8028323	5.20	SV-WAS12-5/S366	8039778	3.9
SV-WAK12-10/S366	8039743	3.3	SV-WAS3-10/S366	8039454	3.7
SV-WAK12-10-SV-WAS12/S366	8039689	3.17	SV-WAS3-10/S90	8039444	3.7
SV-WAK12-2/S366	8039741	3.3	SV-WAS3-2/S366	8038600	3.7

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SV-WAS3-5/S366	8039453	3.7	SV-WWAK5-2-SV-WWAS5/S90	8039595	3.20
SV-WAS3-5/S90	8039443	3.7	SV-WWAK5-5/S366	8038448	3.5
SV-WAS4-10/S366	8039455	3.7	SV-WWAK5-5/S90	8038439	3.5
SV-WAS4-10/S90	8039445	3.7	SV-WWAK5-5-SV-WWAS5/S366	8039625	3.20
SV-WAS4-2/S366	8038603	3.7	SV-WWAK5-5-SV-WWAS5/S90	8039601	3.20
SV-WAS4-2/S90	8036446	3.7	SV-WWAK8-10/S366	8039749	3.5
SV-WAS4-5/S366	8039374	3.7	SV-WWAK8-10/S90	8039730	3.5
SV-WAS4-5/S90	8039376	3.7	SV-WWAK8-10-SV-WWAS8/S366	8039633	3.21
SV-WAS5-10/S366	8039457	3.8	SV-WWAK8-10-SV-WWAS8/S90	8039615	3.21
SV-WAS5-10/S90	8039447	3.8	SV-WWAK8-2/S366	8039747	3.5
SV-WAS5-2/S366	8038610	3.8	SV-WWAK8-2/S90	8039728	3.5
SV-WAS5-2/S90	8037152	3.8	SV-WWAK8-2-SV-WWAS8/S366	8039621	3.21
SV-WAS5-5/S366	8039456	3.8	SV-WWAK8-2-SV-WWAS8/S90	8039597	3.21
SV-WAS5-5/S90	8039446	3.8	SV-WWAK8-5/S366	8039748	3.5
SV-WAS8-10/S366	8039776	3.8	SV-WWAK8-5/S90	8039729	3.5
SV-WAS8-10/S90	8039758	3.8	SV-WWAK8-5-SV-WWAS8/S366	8039627	3.21
SV-WAS8-2/S366	8039774	3.8	SV-WWAK8-5-SV-WWAS8/S90	8039603	3.21
SV-WAS8-2/S90	8039756	3.8	SV-WWAS12-10/S366	8039788	3.12
SV-WAS8-5/S366	8039775	3.8	SV-WWAS12-2/S366	8039786	3.12
SV-WAS8-5/S90	8039757	3.8	SV-WWAS12-5/S366	8039787	3.12
SV-WWAK12-10/S366	8039752	3.6	SV-WWAS3-10/S366	8039461	3.10
SV-WWAK12-10-SV-WWAS12/S366	8039634	3.22	SV-WWAS3-10/S90	8039449	3.10
SV-WWAK12-2/S366	8039750	3.6	SV-WWAS3-2/S366	8038613	3.10
SV-WWAK12-2-SV-WWAS12/S366	8039622	3.22	SV-WWAS3-2/S90	8037429	3.10
SV-WWAK12-5/S366	8039751	3.6	SV-WWAS3-5/S366	8039458	3.10
SV-WWAK12-5-SV-WWAS12/S366	8039628	3.22	SV-WWAS3-5/S90	8039448	3.10
SV-WWAK3-10/S366	8039439	3.4	SV-WWAS4-10/S366	8039462	3.10
SV-WWAK3-10/S90	8039431	3.4	SV-WWAS4-10/S90	8039450	3.10
SV-WWAK3-10-SV-WWAS3/S366	8039629	3.18	SV-WWAS4-2/S366	8038616	3.10
SV-WWAK3-10-SV-WWAS3/S90	8039611	3.18	SV-WWAS4-2/S90	8037430	3.10
SV-WWAK3-2/S366	8039438	3.4	SV-WWAS4-5/S366	8039375	3.10
SV-WWAK3-2/S90	8038700	3.4	SV-WWAS4-5/S90	8039377	3.10
SV-WWAK3-2-SV-WWAS3/S366	8039617	3.18	SV-WWAS5-10/S366	8039464	3.11
SV-WWAK3-2-SV-WWAS3/S90	8039590	3.18	SV-WWAS5-10/S90	8039452	3.11
SV-WWAK3-5/S366	8038447	3.4	SV-WWAS5-2/S366	8038622	3.11
SV-WWAK3-5/S90	8038438	3.4	SV-WWAS5-2/S90	8037431	3.11
SV-WWAK3-5-SV-WWAS3/S366	8039623	3.18	SV-WWAS5-5/S366	8039463	3.11
SV-WWAK3-5-SV-WWAS3/S90	8039599	3.18	SV-WWAS5-5/S90	8039451	3.11
SV-WWAK4-10/S366	8039440	3.4	SV-WWAS8-10/S366	8039785	3.11
SV-WWAK4-10/S90	8038575	3.4	SV-WWAS8-10/S90	8039767	3.11
SV-WWAK4-10-SV-WWAS4/S366	8039630	3.19	SV-WWAS8-2/S366	8039783	3.11
SV-WWAK4-10-SV-WWAS4/S90	8039612	3.19	SV-WWAS8-2/S90	8039765	3.11
SV-WWAK4-2/S366	8039047	3.4	SV-WWAS8-5/S366	8039784	3.11
SV-WWAK4-2/S90	8038524	3.4	SV-WWAS8-5/S90	8039766	3.11
SV-WWAK4-2-SV-WWAS4/S366	8039618	3.19	SWKP3-0,3-SSP3/P00	8009503	11.67
SV-WWAK4-2-SV-WWAS4/S90	8039594	3.19	SWKP3-0,3-SSP3/S366	8023094	11.67
SV-WWAK4-5/S366	8038337	3.4	SWKP3-0,3-SSP3/S74	8020367	11.67
SV-WWAK4-5/S90	8038449	3.4	SWKP3-0,3-SSP3/S77/S398	8024140	11.67
SV-WWAK4-5-SV-WWAS4/S366	8039624	3.19	SWKP3-0,3-SSP3/S90	8015453	11.67
SV-WWAK4-5-SV-WWAS4/S90	8039600	3.19	SWKP3-0,3-SSP3/XOR	8023083	11.67
SV-WWAK5-10/S366	8039442	3.5	SWKP3-0,3-WAS3/P00	8007493	11.47
SV-WWAK5-10/S90	8039433	3.5	SWKP3-0,3-WAS3/S366	8023936	11.47
SV-WWAK5-10-SV-WWAS5/S366	8039631	3.20	SWKP3-0,3-WAS3/S74	8007496	11.47
SV-WWAK5-10-SV-WWAS5/S90	8039613	3.20	SWKP3-0,3-WAS3/S77/S398	8023943	11.47
SV-WWAK5-2/S366	8039441	3.5	SWKP3-0,3-WAS3/S90	8007494	11.47
SV-WWAK5-2/S90	8039432	3.5	SWKP3-0,3-WAS3/XOR	8007495	11.47

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SWKP3-0,6-SSP3/P00	8010763	11.67	SWKP3-2-WAS3/P00	8007485	11.47
SWKP3-0,6-SSP3/S366	8023095	11.67	SWKP3-2-WAS3/S366	8023940	11.47
SWKP3-0,6-SSP3/S74	8023089	11.67	SWKP3-2-WAS3/S77/S398	8023947	11.47
SWKP3-0,6-SSP3/S77/S398	8024141	11.67	SWKP3-2-WAS3/S90	8007486	11.47
SWKP3-0,6-SSP3/S90	8014132	11.67	SWKP3-2-WAS3/XOR	8007487	11.47
SWKP3-0,6-SSP3/XOR	8023084	11.67	SWKP3-5/P00	8007371	5.11
SWKP3-0,6-WAS3/P00	8007497	11.47	SWKP3-5/S2429/S2430	8036099	8.35
SWKP3-0,6-WAS3/S366	8023937	11.47	SWKP3-5/S366	8019757	5.11
SWKP3-0,6-WAS3/S74	8007500	11.47	SWKP3-5/S74	8007374	5.11
SWKP3-0,6-WAS3/S77/S398	8023944	11.47	SWKP3-5/S77/S398	8023452	5.11
SWKP3-0,6-WAS3/S90	8007498	11.47	SWKP3-5/S90	8007372	5.11
SWKP3-0,6-WAS3/XOR	8007499	11.47	SWKP3-5/XOR	8007373	5.11
SWKP3-1,5-SSP3/P00	8020084	11.67	SWKP3-5-SSP3/P00	8023080	11.67
SWKP3-1,5-SSP3/S366	8023097	11.67	SWKP3-5-SSP3/S366	8023099	11.67
SWKP3-1,5-SSP3/S74	8023091	11.67	SWKP3-5-SSP3/S74	8023092	11.67
SWKP3-1,5-SSP3/S77/S398	8024143	11.67	SWKP3-5-SSP3/S77/S398	8024145	11.67
SWKP3-1,5-SSP3/S90	8016217	11.67	SWKP3-5-SSP3/S90	8015459	11.67
SWKP3-1,5-SSP3/XOR	8023086	11.67	SWKP3-5-SSP3/XOR	8023087	11.67
SWKP3-1,5-WAS3/P00	8007501	11.47	SWKP3-5-SWSP3/S2429/S2430	8039979	8.40
SWKP3-1,5-WAS3/S366	8023939	11.47	SWKP3-5-WAS3/P00	8007489	11.47
SWKP3-1,5-WAS3/S74	8007504	11.47	SWKP3-5-WAS3/S366	8023941	11.47
SWKP3-1,5-WAS3/S77/S398	8023946	11.47	SWKP3-5-WAS3/S74	8007492	11.47
SWKP3-1,5-WAS3/S90	8007502	11.47	SWKP3-5-WAS3/S77/S398	8023948	11.47
SWKP3-1,5-WAS3/XOR	8007503	11.47	SWKP3-5-WAS3/S90	8007490	11.47
SWKP3-10/P00	8007375	5.11	SWKP3-5-WAS3/XOR	8007491	11.47
SWKP3-10/S2429/S2430	8039485	8.35	SWKP3P2-0,3-SSP3/P00	8023107	11.73
SWKP3-10/S366	8022186	5.11	SWKP3P2-0,3-SSP3/S366	8023325	11.73
SWKP3-10/S74	8007378	5.11	SWKP3P2-0,3-SSP3/S74	8023120	11.73
SWKP3-10/S77/S398	8023453	5.11	SWKP3P2-0,3-SSP3/S77/S398	8024161	11.73
SWKP3-10/S90	8007376	5.11	SWKP3P2-0,3-SSP3/S90	8012313	11.73
SWKP3-10/XOR	8007377	5.11	SWKP3P2-0,3-SSP3/XOR	8016145	11.73
SWKP3-10-SWSP3/S2429/S2430	8039980	8.40	SWKP3P2-0,3-SWSP3/P00	8023127	11.77
SWKP3-1-SSP3/P00	8010760	11.67	SWKP3P2-0,3-SWSP3/S366	8023339	11.77
SWKP3-1-SSP3/S366	8023096	11.67	SWKP3P2-0,3-SWSP3/S74	8023146	11.77
SWKP3-1-SSP3/S77/S398	8024142	11.67	SWKP3P2-0,3-SWSP3/S77/S398	8024169	11.77
SWKP3-1-SSP3/S90	8015408	11.67	SWKP3P2-0,3-SWSP3/S90	8023134	11.77
SWKP3-1-SSP3/XOR	8023085	11.67	SWKP3P2-0,3-SWSP3/XOR	8023141	11.77
SWKP3-1-WAS3/P00	8007481	11.47	SWKP3P2-0,3-WAS3/P00	8023771	11.53
SWKP3-1-WAS3/S366	8023938	11.47	SWKP3P2-0,3-WAS3/S366	8024027	11.53
SWKP3-1-WAS3/S74	8007484	11.47	SWKP3P2-0,3-WAS3/S74	8011504	11.53
SWKP3-1-WAS3/S77/S398	8023945	11.47	SWKP3P2-0,3-WAS3/S77/S398	8024034	11.53
SWKP3-1-WAS3/S90	8007482	11.47	SWKP3P2-0,3-WAS3/S90	8011502	11.53
SWKP3-1-WAS3/XOR	8007483	11.47	SWKP3P2-0,3-WAS3/XOR	8011503	11.53
SWKP3-2/P00	8007367	5.11	SWKP3P2-0,6-SSP3/P00	8023108	11.73
SWKP3-2/S2429/S2430	8039484	8.35	SWKP3P2-0,6-SSP3/S366	8023326	11.73
SWKP3-2/S366	8022185	5.11	SWKP3P2-0,6-SSP3/S74	8023121	11.73
SWKP3-2/S74	8007370	5.11	SWKP3P2-0,6-SSP3/S77/S398	8024162	11.73
SWKP3-2/S77/S398	8023451	5.11	SWKP3P2-0,6-SSP3/S90	8012314	11.73
SWKP3-2/S90	8007368	5.11	SWKP3P2-0,6-SSP3/XOR	8016115	11.73
SWKP3-2/XOR	8007369	5.11	SWKP3P2-0,6-SWSP3/P00	8023128	11.77
SWKP3-2-SSP3/P00	8016175	11.67	SWKP3P2-0,6-SWSP3/S366	8023340	11.77
SWKP3-2-SSP3/S366	8023098	11.67	SWKP3P2-0,6-SWSP3/S74	8023147	11.77
SWKP3-2-SSP3/S74	8010762	11.67	SWKP3P2-0,6-SWSP3/S77/S398	8024170	11.77
SWKP3-2-SSP3/S77/S398	8024144	11.67	SWKP3P2-0,6-SWSP3/S90	8023135	11.77
SWKP3-2-SSP3/S90	8015456	11.67	SWKP3P2-0,6-SWSP3/XOR	8023142	11.77
SWKP3-2-SSP3/XOR	8010761	11.67	SWKP3P2-0,6-WAS3/P00	8011505	11.53
SWKP3-2-SWSP3/S2429/S2430	8039978	8.40	SWKP3P2-0,6-WAS3/S366	8024028	11.53

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SWKP3P2-0,6-WAS3/S74	8011507	11.53	SWKP3P2-2-SSP3/XOR	8023117	11.73
SWKP3P2-0,6-WAS3/S77/S398	8024035	11.53	SWKP3P2-2-SWSP3/P00	8023131	11.77
SWKP3P2-0,6-WAS3/S90	8009491	11.53	SWKP3P2-2-SWSP3/S366	8023343	11.77
SWKP3P2-0,6-WAS3/XOR	8011506	11.53	SWKP3P2-2-SWSP3/S74	8023150	11.77
SWKP3P2-1,0-WAS3/S77/S398	8024036	11.53	SWKP3P2-2-SWSP3/S77/S398	8024173	11.77
SWKP3P2-1,5-SSP3/P00	8023110	11.73	SWKP3P2-2-SWSP3/S90	8023138	11.77
SWKP3P2-1,5-SSP3/S366	8023328	11.73	SWKP3P2-2-SWSP3/XOR	8014418	11.77
SWKP3P2-1,5-SSP3/S74	8023123	11.73	SWKP3P2-2-WAS3/P00	8011492	11.53
SWKP3P2-1,5-SSP3/S77/S398	8024164	11.73	SWKP3P2-2-WAS3/S366	8024031	11.53
SWKP3P2-1,5-SSP3/S90	8012315	11.73	SWKP3P2-2-WAS3/S74	8007488	11.47
SWKP3P2-1,5-SSP3/XOR	8023116	11.73	SWKP3P2-2-WAS3/S74	8011495	11.53
SWKP3P2-1,5-SWSP3/P00	8023130	11.77	SWKP3P2-2-WAS3/S77/S398	8024038	11.53
SWKP3P2-1,5-SWSP3/S366	8023342	11.77	SWKP3P2-2-WAS3/S90	8011493	11.53
SWKP3P2-1,5-SWSP3/S74	8023149	11.77	SWKP3P2-2-WAS3/XOR	8011494	11.53
SWKP3P2-1,5-SWSP3/S77/S398	8024172	11.77	SWKP3P2-5/P00	8010364	5.15
SWKP3P2-1,5-SWSP3/S90	8023137	11.77	SWKP3P2-5/S366	8023485	5.15
SWKP3P2-1,5-SWSP3/XOR	8023144	11.77	SWKP3P2-5/S74	8010365	5.15
SWKP3P2-1,5-WAS3/P00	8011508	11.53	SWKP3P2-5/S77/S398	8023488	5.15
SWKP3P2-1,5-WAS3/S366	8024030	11.53	SWKP3P2-5/S90	8009445	5.15
SWKP3P2-1,5-WAS3/S74	8011510	11.53	SWKP3P2-5/XOR	8009446	5.15
SWKP3P2-1,5-WAS3/S77/S398	8024037	11.53	SWKP3P2-5-SSP3/P00	8023112	11.73
SWKP3P2-1,5-WAS3/S90	8009492	11.53	SWKP3P2-5-SSP3/S366	8023330	11.73
SWKP3P2-1,5-WAS3/XOR	8011509	11.53	SWKP3P2-5-SSP3/S74	8023125	11.73
SWKP3P2-10/P00	8010366	5.15	SWKP3P2-5-SSP3/S77/S398	8024166	11.73
SWKP3P2-10/S366	8023486	5.15	SWKP3P2-5-SSP3/S90	8023114	11.73
SWKP3P2-10/S74	8010368	5.15	SWKP3P2-5-SSP3/XOR	8023118	11.73
SWKP3P2-10/S77/S398	8023489	5.15	SWKP3P2-5-SWSP3/P00	8023132	11.77
SWKP3P2-10/S90	8009447	5.15	SWKP3P2-5-SWSP3/S366	8023344	11.77
SWKP3P2-10/XOR	8010367	5.15	SWKP3P2-5-SWSP3/S74	8023151	11.77
SWKP3P2-1-SSP3/P00	8023109	11.73	SWKP3P2-5-SWSP3/S77/S398	8024174	11.77
SWKP3P2-1-SSP3/S366	8023327	11.73	SWKP3P2-5-SWSP3/S90	8023139	11.77
SWKP3P2-1-SSP3/S74	8023122	11.73	SWKP3P2-5-SWSP3/XOR	8014420	11.77
SWKP3P2-1-SSP3/S77/S398	8024163	11.73	SWKP3P2-5-WAS3/P00	8011497	11.53
SWKP3P2-1-SSP3/S90	8012310	11.73	SWKP3P2-5-WAS3/S366	8024032	11.53
SWKP3P2-1-SSP3/XOR	8012311	11.73	SWKP3P2-5-WAS3/S74	8011500	11.53
SWKP3P2-1-SWSP3/P00	8023129	11.77	SWKP3P2-5-WAS3/S77/S398	8024039	11.53
SWKP3P2-1-SWSP3/S366	8023341	11.77	SWKP3P2-5-WAS3/S90	8011498	11.53
SWKP3P2-1-SWSP3/S74	8023148	11.77	SWKP3P2-5-WAS3/XOR	8011499	11.53
SWKP3P2-1-SWSP3/S77/S398	8024171	11.77	SWKP4-0,3-SSP4/P00	8023674	11.68
SWKP3P2-1-SWSP3/S90	8023136	11.77	SWKP4-0,3-SSP4/S77/S366	8024147	11.68
SWKP3P2-1-SWSP3/XOR	8023143	11.77	SWKP4-0,3-SSP4/S77/S398	8024154	11.68
SWKP3P2-1-WAS3/P00	8011489	11.53	SWKP4-0,3-SSP4/S90	8023681	11.68
SWKP3P2-1-WAS3/S366	8024029	11.53	SWKP4-0,3-SSP4/XOR	8023688	11.68
SWKP3P2-1-WAS3/S74	8011491	11.53	SWKP4-0,3-WAS4/P00	8007510	11.48
SWKP3P2-1-WAS3/S90	8009490	11.53	SWKP4-0,3-WAS4/S77/S366	8023950	11.48
SWKP3P2-1-WAS3/XOR	8011490	11.53	SWKP4-0,3-WAS4/S77/S398	8023957	11.48
SWKP3P2-2/P00	8010360	5.15	SWKP4-0,3-WAS4/S90	8007511	11.48
SWKP3P2-2/S366	8023484	5.15	SWKP4-0,3-WAS4/XOR	8009461	11.48
SWKP3P2-2/S74	8010363	5.15	SWKP4-0,6-SSP4/P00	8023675	11.68
SWKP3P2-2/S77/S398	8023487	5.15	SWKP4-0,6-SSP4/S77/S366	8024148	11.68
SWKP3P2-2/S90	8010361	5.15	SWKP4-0,6-SSP4/S77/S398	8024155	11.68
SWKP3P2-2/XOR	8010362	5.15	SWKP4-0,6-SSP4/S90	8023682	11.68
SWKP3P2-2-SSP3/P00	8023111	11.73	SWKP4-0,6-SSP4/XOR	8023689	11.68
SWKP3P2-2-SSP3/S366	8023329	11.73	SWKP4-0,6-WAS4/P00	8007512	11.48
SWKP3P2-2-SSP3/S74	8023124	11.73	SWKP4-0,6-WAS4/S77/S366	8023951	11.48
SWKP3P2-2-SSP3/S77/S398	8024165	11.73	SWKP4-0,6-WAS4/S77/S398	8023958	11.48
SWKP3P2-2-SSP3/S90	8012312	11.73	SWKP4-0,6-WAS4/S90	8007513	11.48

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SWKP4-0,6-WAS4/XOR	8009462	11.48	SWKP4-5-WAS4/P00	8007509	11.48
SWKP4-1,5-SSP4/P00	8023677	11.68	SWKP4-5-WAS4/S77/S366	8023955	11.48
SWKP4-1,5-SSP4/S77/S366	8024150	11.68	SWKP4-5-WAS4/S77/S398	8023962	11.48
SWKP4-1,5-SSP4/S77/S398	8024157	11.68	SWKP4-5-WAS4/S90	8009459	11.48
SWKP4-1,5-SSP4/S90	8023684	11.68	SWKP4-5-WAS4/XOR	8009460	11.48
SWKP4-1,5-SSP4/XOR	8023691	11.68	SWKP4P2-0,3-SSP4/P00	8025507	11.74
SWKP4-1,5-WAS4/P00	8007514	11.48	SWKP4P2-0,3-SSP4/S77/S366	8025529	11.74
SWKP4-1,5-WAS4/S77/S366	8023953	11.48	SWKP4P2-0,3-SSP4/S77/S398	8025537	11.74
SWKP4-1,5-WAS4/S77/S398	8023960	11.48	SWKP4P2-0,3-SSP4/S90	8025515	11.74
SWKP4-1,5-WAS4/S90	8007515	11.48	SWKP4P2-0,3-SSP4/XOR	8025522	11.74
SWKP4-1,5-WAS4/XOR	8009463	11.48	SWKP4P2-0,3-SWSP4/P00	8025544	11.78
SWKP4-10/P00	8007383	5.11	SWKP4P2-0,3-SWSP4/S77/S366	8025621	11.78
SWKP4-10/S2429/S2430	8037216	8.35	SWKP4P2-0,3-SWSP4/S77/S398	8025565	11.78
SWKP4-10/S77/S366	8023456	5.11	SWKP4P2-0,3-SWSP4/S90	8025551	11.78
SWKP4-10/S77/S398	8023459	5.11	SWKP4P2-0,3-SWSP4/XOR	8025558	11.78
SWKP4-10/S90	8007384	5.11	SWKP4P2-0,3-WAS4/P00	8011521	11.54
SWKP4-10/XOR	8009436	5.11	SWKP4P2-0,3-WAS4/S77/S366	8024041	11.54
SWKP4-10-SWSP4/S2429/S2430	8039983	8.41	SWKP4P2-0,3-WAS4/S77/S398	8024048	11.54
SWKP4-1-SSP4/P00	8023676	11.68	SWKP4P2-0,3-WAS4/S90	8011522	11.54
SWKP4-1-SSP4/S77/S366	8024149	11.68	SWKP4P2-0,3-WAS4/XOR	8011523	11.54
SWKP4-1-SSP4/S77/S398	8024156	11.68	SWKP4P2-0,6-SSP4/P00	8025508	11.74
SWKP4-1-SSP4/S90	8023683	11.68	SWKP4P2-0,6-SSP4/S77/S366	8025530	11.74
SWKP4-1-SSP4/XOR	8023690	11.68	SWKP4P2-0,6-SSP4/S77/S398	8025538	11.74
SWKP4-1-WAS4/P00	8007505	11.48	SWKP4P2-0,6-SSP4/S90	8025516	11.74
SWKP4-1-WAS4/S77/S366	8023952	11.48	SWKP4P2-0,6-SSP4/XOR	8025523	11.74
SWKP4-1-WAS4/S77/S398	8023959	11.48	SWKP4P2-0,6-SWSP4/P00	8025545	11.78
SWKP4-1-WAS4/S90	8007506	11.48	SWKP4P2-0,6-SWSP4/S77/S366	8025622	11.78
SWKP4-1-WAS4/XOR	8009457	11.48	SWKP4P2-0,6-SWSP4/S77/S398	8025566	11.78
SWKP4-2/P00	8007379	5.11	SWKP4P2-0,6-SWSP4/S90	8025552	11.78
SWKP4-2/S2429/S2430	8039486	8.35	SWKP4P2-0,6-SWSP4/XOR	8025559	11.78
SWKP4-2/S77/S366	8023454	5.11	SWKP4P2-0,6-WAS4/P00	8011524	11.54
SWKP4-2/S77/S398	8023457	5.11	SWKP4P2-0,6-WAS4/S77/S366	8024042	11.54
SWKP4-2/S90	8007380	5.11	SWKP4P2-0,6-WAS4/S77/S398	8024049	11.54
SWKP4-2/XOR	8009434	5.11	SWKP4P2-0,6-WAS4/S90	8011525	11.54
SWKP4-2-SSP4/P00	8023678	11.68	SWKP4P2-0,6-WAS4/XOR	8011526	11.54
SWKP4-2-SSP4/S77/S366	8024151	11.68	SWKP4P2-1,5-SSP4/P00	8025510	11.74
SWKP4-2-SSP4/S77/S398	8024158	11.68	SWKP4P2-1,5-SSP4/S77/S366	8025533	11.74
SWKP4-2-SSP4/S90	8023685	11.68	SWKP4P2-1,5-SSP4/S77/S398	8025540	11.74
SWKP4-2-SSP4/XOR	8023692	11.68	SWKP4P2-1,5-SSP4/S90	8025518	11.74
SWKP4-2-SWSP4/S2429/S2430	8039981	8.41	SWKP4P2-1,5-SSP4/XOR	8025525	11.74
SWKP4-2-WAS4/P00	8007507	11.48	SWKP4P2-1,5-SWSP4/P00	8025547	11.78
SWKP4-2-WAS4/S77/S366	8023954	11.48	SWKP4P2-1,5-SWSP4/S77/S366	8025624	11.78
SWKP4-2-WAS4/S77/S398	8023961	11.48	SWKP4P2-1,5-SWSP4/S77/S398	8025568	11.78
SWKP4-2-WAS4/S90	8007508	11.48	SWKP4P2-1,5-SWSP4/S90	8025554	11.78
SWKP4-2-WAS4/XOR	8009458	11.48	SWKP4P2-1,5-SWSP4/XOR	8025561	11.78
SWKP4-5/P00	8007381	5.11	SWKP4P2-1,5-WAS4/P00	8011527	11.54
SWKP4-5/S2429/S2430	8036100	8.35	SWKP4P2-1,5-WAS4/S77/S366	8024044	11.54
SWKP4-5/S77/S366	8023455	5.11	SWKP4P2-1,5-WAS4/S77/S398	8024051	11.54
SWKP4-5/S77/S398	8023458	5.11	SWKP4P2-1,5-WAS4/S90	8011528	11.54
SWKP4-5/S90	8007382	5.11	SWKP4P2-1,5-WAS4/XOR	8011529	11.54
SWKP4-5/XOR	8009435	5.11	SWKP4P2-10/P00	8010375	5.15
SWKP4-5-SSP4/P00	8023679	11.68	SWKP4P2-10/S77/S366	8023492	5.15
SWKP4-5-SSP4/S77/S366	8024152	11.68	SWKP4P2-10/S77/S398	8023495	5.15
SWKP4-5-SSP4/S77/S398	8024159	11.68	SWKP4P2-10/S90	8010376	5.15
SWKP4-5-SSP4/S90	8023686	11.68	SWKP4P2-10/XOR	8010377	5.15
SWKP4-5-SSP4/XOR	8023693	11.68	SWKP4P2-1-SSP4/P00	8025509	11.74
SWKP4-5-SWSP4/S2429/S2430	8039982	8.41	SWKP4P2-1-SSP4/S77/S366	8025531	11.74

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SWKP4P2-1-SSP4/S77/S398	8025539	11.74	SWKPS3-1,5-SWSPS3/P00	8028364	11.75
SWKP4P2-1-SSP4/S90	8025517	11.74	SWKPS3-1,5-SWSPS3/S366	8028370	11.75
SWKP4P2-1-SSP4/XOR	8025524	11.74	SWKPS3-10/P00	8028307	5.12
SWKP4P2-1-SWSP4/P00	8025546	11.78	SWKPS3-10/S366	8028309	5.12
SWKP4P2-1-SWSP4/S77/S366	8025623	11.78	SWKPS3-1-SWSPS3/P00	8028363	11.75
SWKP4P2-1-SWSP4/S77/S398	8025567	11.78	SWKPS3-1-SWSPS3/S366	8028369	11.75
SWKP4P2-1-SWSP4/S90	8025553	11.78	SWKPS3-2/P00	8019234	5.12
SWKP4P2-1-SWSP4/XOR	8025560	11.78	SWKPS3-2/S366	8019235	5.12
SWKP4P2-1-WAS4/P00	8011512	11.54	SWKPS3-2-SWSPS3/P00	8027208	11.75
SWKP4P2-1-WAS4/S77/S366	8024043	11.54	SWKPS3-2-SWSPS3/S366	8028371	11.75
SWKP4P2-1-WAS4/S77/S398	8024050	11.54	SWKPS3-5/P00	8028306	5.12
SWKP4P2-1-WAS4/S90	8011513	11.54	SWKPS3-5/S366	8028308	5.12
SWKP4P2-1-WAS4/XOR	8011514	11.54	SWKPS3-5-SWSPS3/S366	8028372	11.75
SWKP4P2-2/P00	8010370	5.15	SWKPS4-0,3-SWSPS4/P00	8028374	11.76
SWKP4P2-2/S77/S366	8023490	5.15	SWKPS4-0,3-SWSPS4/S366	8028380	11.76
SWKP4P2-2/S77/S398	8023493	5.15	SWKPS4-0,6-SWSPS4/P00	8028375	11.76
SWKP4P2-2/S90	8010371	5.15	SWKPS4-0,6-SWSPS4/S366	8028381	11.76
SWKP4P2-2/XOR	8010372	5.15	SWKPS4-1,5-SWSPS4/P00	8028377	11.76
SWKP4P2-2-SSP4/P00	8025512	11.74	SWKPS4-1,5-SWSPS4/S366	8028383	11.76
SWKP4P2-2-SSP4/S77/S366	8025534	11.74	SWKPS4-10/P00	8028313	5.12
SWKP4P2-2-SSP4/S77/S398	8025541	11.74	SWKPS4-10/S366	8028314	5.12
SWKP4P2-2-SSP4/S90	8025519	11.74	SWKPS4-1-SWSPS4/P00	8028376	11.76
SWKP4P2-2-SSP4/XOR	8025526	11.74	SWKPS4-1-SWSPS4/S366	8028382	11.76
SWKP4P2-2-SWSP4/P00	8025548	11.78	SWKPS4-2/P00	8019232	5.12
SWKP4P2-2-SWSP4/S77/S366	8025625	11.78	SWKPS4-2/S366	8019233	5.12
SWKP4P2-2-SWSP4/S77/S398	8025569	11.78	SWKPS4-2-SWSPS4/P00	8027209	11.76
SWKP4P2-2-SWSP4/S90	8025555	11.78	SWKPS4-2-SWSPS4/S366	8028384	11.76
SWKP4P2-2-SWSP4/XOR	8025562	11.78	SWKPS4-5/P00	8028312	5.12
SWKP4P2-2-WAS4/P00	8011515	11.54	SWKPS4-5/S366	8028311	5.12
SWKP4P2-2-WAS4/S77/S366	8024045	11.54	SWKPS4-5-SWSPS4/P00	8028378	11.76
SWKP4P2-2-WAS4/S77/S398	8024052	11.54	SWKPS4-5-SWSPS4/S366	8028385	11.76
SWKP4P2-2-WAS4/S90	8011516	11.54	SWPK3-1-SSP3/S74	8023090	11.67
SWKP4P2-2-WAS4/XOR	8011517	11.54	SWSKPS-5-SWSPS3/P00	8028365	11.75
SWKP4P2-5/P00	8010373	5.15	SWSP3-10/P00	8007393	5.25
SWKP4P2-5/S77/S366	8023491	5.15	SWSP3-10/S2429/S2430	8039492	8.37
SWKP4P2-5/S77/S398	8023494	5.15	SWSP3-10/S366	8023501	5.25
SWKP4P2-5/S90	8010081	5.15	SWSP3-10/S74	8007396	5.25
SWKP4P2-5/XOR	8010374	5.15	SWSP3-10/S77/S398	8023504	5.25
SWKP4P2-5-SSP4/P00	8025513	11.74	SWSP3-10/S90	8007394	5.25
SWKP4P2-5-SSP4/S77/S366	8025535	11.74	SWSP3-10/XOR	8007395	5.25
SWKP4P2-5-SSP4/S77/S398	8025542	11.74	SWSP3-2/P00	8007385	5.25
SWKP4P2-5-SSP4/S90	8025520	11.74	SWSP3-2/S2429/S2430	8039491	8.37
SWKP4P2-5-SSP4/XOR	8025527	11.74	SWSP3-2/S366	8023499	5.25
SWKP4P2-5-SWSP4/P00	8025549	11.78	SWSP3-2/S74	8007388	5.25
SWKP4P2-5-SWSP4/S77/S366	8025626	11.78	SWSP3-2/S77/S398	8023502	5.25
SWKP4P2-5-SWSP4/S77/S398	8025570	11.78	SWSP3-2/S90	8007386	5.25
SWKP4P2-5-SWSP4/S90	8025556	11.78	SWSP3-2/XOR	8007387	5.25
SWKP4P2-5-SWSP4/XOR	8025563	11.78	SWSP3-5/P00	8007389	5.25
SWKP4P2-5-WAS4/P00	8011518	11.54	SWSP3-5/S2429/S2430	8036103	8.37
SWKP4P2-5-WAS4/S77/S366	8024046	11.54	SWSP3-5/S366	8023500	5.25
SWKP4P2-5-WAS4/S77/S398	8024053	11.54	SWSP3-5/S74	8007392	5.25
SWKP4P2-5-WAS4/S90	8011519	11.54	SWSP3-5/S77/S398	8023503	5.25
SWKP4P2-5-WAS4/XOR	8011520	11.54	SWSP3-5/S90	8007390	5.25
SWKPS3-0,3-SWSPS3/P00	8028361	11.75	SWSP3-5/XOR	8007391	5.25
SWKPS3-0,3-SWSPS3/S366	8028367	11.75	SWSP4-10/P00	8007401	5.25
SWKPS3-0,6-SWSP3S/P00	8028362	11.75	SWSP4-10/S2429/S2430	8039494	8.37
SWKPS3-0,6-SWSPS3/S366	8028368	11.75	SWSP4-10/S77/S366	8023507	5.25

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SWSP4-10/S90	8007402	5.25	TASD41-4.048-10/P00	8010727	10.12
SWSP4-10/XOR	8009440	5.25	TASD41-4.048-10/S90	8010728	10.12
SWSP4-2/P00	8007397	5.25	TASD41-4.048-10/XOR	8010729	10.12
SWSP4-2/S2429/S2430	8039493	8.37	TASD41-4.048-2/P00	8010721	10.12
SWSP4-2/S77/S366	8023505	5.25	TASD41-4.048-2/S90	8010722	10.12
SWSP4-2/S77/S398	8023508	5.25	TASD41-4.048-2/XOR	8010723	10.12
SWSP4-2/S90	8007398	5.25	TASD41-4.048-5/P00	8010724	10.12
SWSP4-2/XOR	8009438	5.25	TASD41-4.048-5/S90	8010725	10.12
SWSP4-5/P00	8007399	5.25	TASD41-4.048-5/XOR	8010726	10.12
SWSP4-5/S2429/S2430	8036104	8.37	TBS21-0.220-10/P00	8007929	10.19
SWSP4-5/S77/S366	8023506	5.25	TBS21-0.220-10/S366	8025754	10.19
SWSP4-5/S77/S398	8023509	5.25	TBS21-0.220-10/S398	8026080	10.19
SWSP4-5/S90	8007400	5.25	TBS21-0.220-10/S74	8007932	10.19
SWSP4-5/XOR	8009439	5.25	TBS21-0.220-10/S90	8007930	10.19
SWSP53-10/P00	8028326	5.26	TBS21-0.220-10/XOR	8007931	10.19
SWSP53-10/S366	8028329	5.26	TBS21-0.220-2/P00	8007921	10.19
SWSP53-2/P00	8027204	5.26	TBS21-0.220-2/S366	8025752	10.19
SWSP53-2/S366	8028327	5.26	TBS21-0.220-2/S398	8026078	10.19
SWSP53-5/P00	8028325	5.26	TBS21-0.220-2/S74	8007924	10.19
SWSP53-5/S266	8028328	5.26	TBS21-0.220-2/S90	8007922	10.19
SWSP54-10/P00	8028331	5.26	TBS21-0.220-2/XOR	8007923	10.19
SWSP54-10/S366	8028334	5.26	TBS21-0.220-5/P00	8007925	10.19
SWSP54-2/P00	8027205	5.26	TBS21-0.220-5/S366	8025753	10.19
SWSP54-2/S366	8028332	5.26	TBS21-0.220-5/S398	8026079	10.19
SWSP54-5/P00	8028330	5.26	TBS21-0.220-5/S74	8007928	10.19
SWSP54-5/S366	8028333	5.26	TBS21-0.220-5/S90	8007926	10.19
T			TBS21-0.220-5/XOR	8007927	10.19
TAS31-0.220-10/P00	8025807	10.8	TBS21-2.048-0,3-WAS5.31/P00	8025895	11.82
TAS31-0.220-10/S366	8026068	10.8	TBS21-2.048-0,3-WAS5.31/S366	8025918	11.82
TAS31-0.220-10/S398	8026071	10.8	TBS21-2.048-0,3-WAS5.31/S398	8025970	11.82
TAS31-0.220-10/S90	8025809	10.8	TBS21-2.048-0,3-WAS5.31/S74	8025911	11.82
TAS31-0.220-10/XOR	8025729	10.8	TBS21-2.048-0,3-WAS5.31/S90	8025902	11.82
TAS31-0.220-2/P00	8018427	10.8	TBS21-2.048-0,3-WAS5.31/XOR	8025907	11.82
TAS31-0.220-2/S366	8026066	10.8	TBS21-2.048-0,6-WAS5.31/P00	8025896	11.82
TAS31-0.220-2/S398	8026069	10.8	TBS21-2.048-0,6-WAS5.31/S366	8025919	11.82
TAS31-0.220-2/S90	8025808	10.8	TBS21-2.048-0,6-WAS5.31/S398	8025971	11.82
TAS31-0.220-2/XOR	8025727	10.8	TBS21-2.048-0,6-WAS5.31/S74	8025912	11.82
TAS31-0.220-5/P00	8025806	10.8	TBS21-2.048-0,6-WAS5.31/S90	8018489	11.82
TAS31-0.220-5/S366	8026067	10.8	TBS21-2.048-0,6-WAS5.31/XOR	8015498	11.82
TAS31-0.220-5/S398	8026070	10.8	TBS21-2.048-1,5-WAS5.31/P00	8025898	11.82
TAS31-0.220-5/S90	8008894	10.8	TBS21-2.048-1,5-WAS5.31/S366	8025921	11.82
TAS31-0.220-5/XOR	8025728	10.8	TBS21-2.048-1,5-WAS5.31/S398	8025973	11.82
TAS31-2.048-10/P00	8025732	10.9	TBS21-2.048-1,5-WAS5.31/S74	8025914	11.82
TAS31-2.048-10/S366	8026074	10.9	TBS21-2.048-1,5-WAS5.31/S90	8025904	11.82
TAS31-2.048-10/S398	8026077	10.9	TBS21-2.048-1,5-WAS5.31/XOR	8025908	11.82
TAS31-2.048-10/S90	8019536	10.9	TBS21-2.048-10/P00	8007917	10.20
TAS31-2.048-10/XOR	8025735	10.9	TBS21-2.048-10/S366	8025757	10.20
TAS31-2.048-2/P00	8025730	10.9	TBS21-2.048-10/S398	8026083	10.20
TAS31-2.048-2/S366	8026072	10.9	TBS21-2.048-10/S74	8007920	10.20
TAS31-2.048-2/S398	8026075	10.9	TBS21-2.048-10/S90	8007918	10.20
TAS31-2.048-2/S90	8017185	10.9	TBS21-2.048-10/XOR	8007919	10.20
TAS31-2.048-2/XOR	8025733	10.9	TBS21-2.048-1-WAS5.21/XOR	8015247	11.82
TAS31-2.048-5/P00	8025731	10.9	TBS21-2.048-1-WAS5.31/P00	8025897	11.82
TAS31-2.048-5/S366	8026073	10.9	TBS21-2.048-1-WAS5.31/S366	8025920	11.82
TAS31-2.048-5/S398	8026076	10.9	TBS21-2.048-1-WAS5.31/S398	8025972	11.82
TAS31-2.048-5/S90	8017474	10.9	TBS21-2.048-1-WAS5.31/S74	8025913	11.82

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TBS21-2.048-2/P00	8007909	10.20	TCS8.21-2.048-5/S90	8008010	10.32
TBS21-2.048-2/S366	8025755	10.20	TCS8.21-2.048-5/XOR	8008011	10.32
TBS21-2.048-2/S398	8026081	10.20	TCS9.21-0.220-10/P00	8008049	10.37
TBS21-2.048-2/S74	8007912	10.20	TCS9.21-0.220-10/S366	8025784	10.37
TBS21-2.048-2/S90	8007910	10.20	TCS9.21-0.220-10/S398	8025862	10.37
TBS21-2.048-2/XOR	8007911	10.20	TCS9.21-0.220-10/S74	8008052	10.37
TBS21-2.048-2-WAS5.31/P00	8025899	11.82	TCS9.21-0.220-10/S90	8008050	10.37
TBS21-2.048-2-WAS5.31/S366	8025922	11.82	TCS9.21-0.220-10/XOR	8008051	10.37
TBS21-2.048-2-WAS5.31/S398	8025974	11.82	TCS9.21-0.220-2/P00	8008041	10.37
TBS21-2.048-2-WAS5.31/S74	8025915	11.82	TCS9.21-0.220-2/S366	8025782	10.37
TBS21-2.048-2-WAS5.31/XOR	8018819	11.82	TCS9.21-0.220-2/S398	8025860	10.37
TBS21-2.048-5/P00	8007913	10.20	TCS9.21-0.220-2/S74	8008044	10.37
TBS21-2.048-5/S366	8025756	10.20	TCS9.21-0.220-2/S90	8008042	10.37
TBS21-2.048-5/S398	8026082	10.20	TCS9.21-0.220-2/XOR	8008043	10.37
TBS21-2.048-5/S74	8007916	10.20	TCS9.21-0.220-5/P00	8008045	10.37
TBS21-2.048-5/S90	8007914	10.20	TCS9.21-0.220-5/S366	8025783	10.37
TBS21-2.048-5/XOR	8007915	10.20	TCS9.21-0.220-5/S398	8025861	10.37
TBS21-2.048-5-WAS5.31/P00	8025900	11.82	TCS9.21-0.220-5/S74	8008048	10.37
TBS21-2.048-5-WAS5.31/S366	8025923	11.82	TCS9.21-0.220-5/S90	8008046	10.37
TBS21-2.048-5-WAS5.31/S398	8025975	11.82	TCS9.21-0.220-5/XOR	8008047	10.37
TBS21-2.048-5-WAS5.31/S74	8025916	11.82	TCS9.21-2.048-10/P00	8008037	10.38
TBS21-2.048-5-WAS5.31/S90	8025905	11.82	TCS9.21-2.048-10/S366	8025787	10.38
TBS21-2.048-5-WAS5.31/XOR	8025909	11.82	TCS9.21-2.048-10/S398	8025865	10.38
TCS8.21-0.220-10/P00	8008025	10.31	TCS9.21-2.048-10/S74	8008040	10.38
TCS8.21-0.220-10/S366	8025778	10.31	TCS9.21-2.048-10/S90	8008038	10.38
TCS8.21-0.220-10/S398	8025856	10.31	TCS9.21-2.048-10/XOR	8008039	10.38
TCS8.21-0.220-10/S74	8008028	10.31	TCS9.21-2.048-2/P00	8008029	10.38
TCS8.21-0.220-10/S90	8008026	10.31	TCS9.21-2.048-2/S366	8025785	10.38
TCS8.21-0.220-10/XOR	8008027	10.31	TCS9.21-2.048-2/S398	8025863	10.38
TCS8.21-0.220-2/P00	8008017	10.31	TCS9.21-2.048-2/S74	8008032	10.38
TCS8.21-0.220-2/S366	8025776	10.31	TCS9.21-2.048-2/S90	8008030	10.38
TCS8.21-0.220-2/S398	8025854	10.31	TCS9.21-2.048-2/XOR	8008031	10.38
TCS8.21-0.220-2/S74	8008020	10.31	TCS9.21-2.048-5/P00	8008033	10.38
TCS8.21-0.220-2/S90	8008018	10.31	TCS9.21-2.048-5/S366	8025786	10.38
TCS8.21-0.220-2/XOR	8008019	10.31	TCS9.21-2.048-5/S398	8025864	10.38
TCS8.21-0.220-5/P00	8008021	10.31	TCS9.21-2.048-5/S74	8008036	10.38
TCS8.21-0.220-5/S366	8025777	10.31	TCS9.21-2.048-5/S90	8008034	10.38
TCS8.21-0.220-5/S398	8025855	10.31	TCS9.21-2.048-5/XOR	8008035	10.38
TCS8.21-0.220-5/S74	8008024	10.31	TIS21-0.220-10/P00	8007953	10.25
TCS8.21-0.220-5/S90	8008022	10.31	TIS21-0.220-10/S366	8025766	10.25
TCS8.21-0.220-5/XOR	8008023	10.31	TIS21-0.220-10/S398	8026086	10.25
TCS8.21-2.048-10/P00	8008013	10.32	TIS21-0.220-10/S74	8007956	10.25
TCS8.21-2.048-10/S366	8025790	10.32	TIS21-0.220-10/S90	8007954	10.25
TCS8.21-2.048-10/S398	8025868	10.32	TIS21-0.220-10/XOR	8007955	10.25
TCS8.21-2.048-10/S74	8008016	10.32	TIS21-0.220-2/P00	8007945	10.25
TCS8.21-2.048-10/S90	8008014	10.32	TIS21-0.220-2/S366	8025764	10.25
TCS8.21-2.048-10/XOR	8008015	10.32	TIS21-0.220-2/S398	8026084	10.25
TCS8.21-2.048-2/P00	8008005	10.32	TIS21-0.220-2/S74	8007948	10.25
TCS8.21-2.048-2/S366	8025788	10.32	TIS21-0.220-2/S90	8007946	10.25
TCS8.21-2.048-2/S398	8025866	10.32	TIS21-0.220-2/XOR	8007947	10.25
TCS8.21-2.048-2/S74	8008008	10.32	TIS21-0.220-5/P00	8007949	10.25
TCS8.21-2.048-2/S90	8008006	10.32	TIS21-0.220-5/S366	8025765	10.25
TCS8.21-2.048-2/XOR	8008007	10.32	TIS21-0.220-5/S398	8026085	10.25
TCS8.21-2.048-5/P00	8008009	10.32	TIS21-0.220-5/S74	8007952	10.25
TCS8.21-2.048-5/S366	8025789	10.32	TIS21-0.220-5/S90	8007950	10.25
TCS8.21-2.048-5/S398	8025867	10.32	TIS21-0.220-5/XOR	8007951	10.25

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TIS21-2.048-0,3-WAS5.31/P00	8025981	11.84	VAS22-0.220-10/S398	8025714	10.1
TIS21-2.048-0,3-WAS5.31/S366	8026005	11.84	VAS22-0.220-10/S74	8025938	10.1
TIS21-2.048-0,3-WAS5.31/S398	8026012	11.84	VAS22-0.220-10/S90	8012359	10.1
TIS21-2.048-0,3-WAS5.31/S74	8025998	11.84	VAS22-0.220-10/XOR	8025935	10.1
TIS21-2.048-0,3-WAS5.31/S90	8025988	11.84	VAS22-0.220-2/P00	8018377	10.1
TIS21-2.048-0,3-WAS5.31/XOR	8025995	11.84	VAS22-0.220-2/S366	8025633	10.1
TIS21-2.048-0,6-WAS5.31/P00	8025982	11.84	VAS22-0.220-2/S398	8025712	10.1
TIS21-2.048-0,6-WAS5.31/S366	8026006	11.84	VAS22-0.220-2/S74	8025936	10.1
TIS21-2.048-0,6-WAS5.31/S398	8026013	11.84	VAS22-0.220-2/S90	8017634	10.1
TIS21-2.048-0,6-WAS5.31/S74	8025999	11.84	VAS22-0.220-2/XOR	8017141	10.1
TIS21-2.048-0,6-WAS5.31/S90	8025989	11.84	VAS22-0.220-5/P00	8018378	10.1
TIS21-2.048-0,6-WAS5.31/XOR	8015591	11.84	VAS22-0.220-5/S366	8025939	10.1
TIS21-2.048-1,5-WAS5.31/P00	8025984	11.84	VAS22-0.220-5/S398	8025713	10.1
TIS21-2.048-1,5-WAS5.31/S366	8026008	11.84	VAS22-0.220-5/S74	8025937	10.1
TIS21-2.048-1,5-WAS5.31/S398	8026015	11.84	VAS22-0.220-5/S90	8006612	10.1
TIS21-2.048-1,5-WAS5.31/S74	8026001	11.84	VAS22-0.220-5/XOR	8006613	10.1
TIS21-2.048-1,5-WAS5.31/S90	8025991	11.84	VAS22-2.048-0,3-WAS5.31/P00	8009081	11.79
TIS21-2.048-1,5-WAS5.31/XOR	8015510	11.84	VAS22-2.048-0,3-WAS5.31/S366	8025876	11.79
TIS21-2.048-10/P00	8007941	10.26	VAS22-2.048-0,3-WAS5.31/S398	8025956	11.79
TIS21-2.048-10/S366	8025769	10.26	VAS22-2.048-0,3-WAS5.31/S74	8006624	11.79
TIS21-2.048-10/S398	8026089	10.26	VAS22-2.048-0,3-WAS5.31/S90	8006622	11.79
TIS21-2.048-10/S74	8007944	10.26	VAS22-2.048-0,3-WAS5.31/XOR	8006623	11.79
TIS21-2.048-10/S90	8007942	10.26	VAS22-2.048-0,6-WAS5.31/P00	8008526	11.79
TIS21-2.048-10/XOR	8007943	10.26	VAS22-2.048-0,6-WAS5.31/S366	8025877	11.79
TIS21-2.048-1-WAS5.31/P00	8025983	11.84	VAS22-2.048-0,6-WAS5.31/S398	8025957	11.79
TIS21-2.048-1-WAS5.31/S366	8026007	11.84	VAS22-2.048-0,6-WAS5.31/S74	8006627	11.79
TIS21-2.048-1-WAS5.31/S398	8026014	11.84	VAS22-2.048-0,6-WAS5.31/S90	8006625	11.79
TIS21-2.048-1-WAS5.31/S74	8026000	11.84	VAS22-2.048-0,6-WAS5.31/XOR	8006626	11.79
TIS21-2.048-1-WAS5.31/S90	8025990	11.84	VAS22-2.048-1,5-WAS5.31/P00	8025872	11.79
TIS21-2.048-1-WAS5.31/XOR	8009970	11.84	VAS22-2.048-1,5-WAS5.31/S366	8025879	11.79
TIS21-2.048-2/P00	8007933	10.26	VAS22-2.048-1,5-WAS5.31/S398	8016269	11.79
TIS21-2.048-2/S366	8025767	10.26	VAS22-2.048-1,5-WAS5.31/S74	8006630	11.79
TIS21-2.048-2/S398	8026087	10.26	VAS22-2.048-1,5-WAS5.31/S90	8006628	11.79
TIS21-2.048-2/S74	8007936	10.26	VAS22-2.048-1,5-WAS5.31/XOR	8006629	11.79
TIS21-2.048-2/S90	8007934	10.26	VAS22-2.048-10/P00	8006609	10.2
TIS21-2.048-2/XOR	8007935	10.26	VAS22-2.048-10/S366	8025943	10.2
TIS21-2.048-2-WAS5.31/P00	8025985	11.84	VAS22-2.048-10/S398	8025221	10.2
TIS21-2.048-2-WAS5.31/S366	8026009	11.84	VAS22-2.048-10/S74	8015503	10.2
TIS21-2.048-2-WAS5.31/S398	8026016	11.84	VAS22-2.048-10/S90	8006610	10.2
TIS21-2.048-2-WAS5.31/S74	8026002	11.84	VAS22-2.048-10/XOR	8006611	10.2
TIS21-2.048-2-WAS5.31/S90	8025992	11.84	VAS22-2.048-1-WAS5.31/P00	8014298	11.79
TIS21-2.048-2-WAS5.31/XOR	8020942	11.84	VAS22-2.048-1-WAS5.31/S366	8025878	11.79
TIS21-2.048-5/P00	8007937	10.26	VAS22-2.048-1-WAS5.31/S398	8018054	11.79
TIS21-2.048-5/S366	8025768	10.26	VAS22-2.048-1-WAS5.31/S74	8006616	11.79
TIS21-2.048-5/S398	8026088	10.26	VAS22-2.048-1-WAS5.31/S90	8006614	11.79
TIS21-2.048-5/S74	8007940	10.26	VAS22-2.048-1-WAS5.31/XOR	8006615	11.79
TIS21-2.048-5/S90	8007938	10.26	VAS22-2.048-2/P00	8006602	10.2
TIS21-2.048-5/XOR	8007939	10.26	VAS22-2.048-2/S366	8025941	10.2
TIS21-2.048-5-WAS5.31/P00	8025986	11.84	VAS22-2.048-2/S398	8013535	10.2
TIS21-2.048-5-WAS5.31/S366	8026010	11.84	VAS22-2.048-2/S74	8017660	10.2
TIS21-2.048-5-WAS5.31/S398	8026017	11.84	VAS22-2.048-2/S90	8006603	10.2
TIS21-2.048-5-WAS5.31/S74	8026003	11.84	VAS22-2.048-2-WAS5.31/P00	8018500	11.79
TIS21-2.048-5-WAS5.31/S90	8025993	11.84	VAS22-2.048-2-WAS5.31/S366	8025880	11.79
TIS21-2.048-5-WAS5.31/XOR	8025996	11.84	VAS22-2.048-2-WAS5.31/S398	8025958	11.79
V			VAS22-2.048-2-WAS5.31/S74	8006619	11.79
VAS22-0.220-10/P00	8025934	10.1	VAS22-2.048-2-WAS5.31/S90	8006617	11.79
VAS22-0.220-10/S366	8025940	10.1	VAS22-2.048-2-WAS5.31/XOR	8006618	11.79

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VAS22-2.048-2-XOR	8006604	10.2	VASD41-4.048-1,5-WAS5/S366	8026022	11.80
VAS22-2.048-5/P00	8006605	10.2	VASD41-4.048-1,5-WAS5/S398	8025963	11.80
VAS22-2.048-5/S366	8025942	10.2	VASD41-4.048-1,5-WAS5/S74	8010186	11.80
VAS22-2.048-5/S398	8013330	10.2	VASD41-4.048-1,5-WAS5/S90	8010182	11.80
VAS22-2.048-5/S74	8006608	10.2	VASD41-4.048-1,5-WAS5/XOR	8010183	11.80
VAS22-2.048-5/S90	8006606	10.2	VASD41-4.048-10/P00	8011385	10.7
VAS22-2.048-5/XOR	8006607	10.2	VASD41-4.048-10/S366	8026065	10.7
VAS22-2.048-5-WAS5.31/P00	8025873	11.79	VASD41-4.048-10/S398	8013318	10.7
VAS22-2.048-5-WAS5.31/S366	8025881	11.79	VASD41-4.048-10/S90	8011386	10.7
VAS22-2.048-5-WAS5.31/S398	8025959	11.79	VASD41-4.048-10/XOR	8011387	10.7
VAS22-2.048-5-WAS5.31/S74	8020255	11.79	VASD41-4.048-1-WAS5/P00	8010149	11.80
VAS22-2.048-5-WAS5.31/S90	8006620	11.79	VASD41-4.048-1-WAS5/S366	8026021	11.80
VAS22-2.048-5-WAS5.31/XOR	8006621	11.79	VASD41-4.048-1-WAS5/S398	8017543	11.80
VAS22-2.048-F55.31K	8011188	10.13	VASD41-4.048-1-WAS5/S74	8010154	11.80
VAS31-0.220-10/P00	8021564	10.5	VASD41-4.048-1-WAS5/S90	8010150	11.80
VAS31-0.220-10/S366	8025717	10.5	VASD41-4.048-1-WAS5/XOR	8010151	11.80
VAS31-0.220-10/S398	8025720	10.5	VASD41-4.048-2/P00	8009967	10.7
VAS31-0.220-10/S90	8013933	10.5	VASD41-4.048-2/S366	8026062	10.7
VAS31-0.220-10/XOR	8019574	10.5	VASD41-4.048-2/S398	8025805	10.7
VAS31-0.220-2/P00	8008801	10.5	VASD41-4.048-2/S90	8011381	10.7
VAS31-0.220-2/S366	8025715	10.5	VASD41-4.048-2/XOR	8011382	10.7
VAS31-0.220-2/S398	8025718	10.5	VASD41-4.048-2-WAS5/P00	8010155	11.80
VAS31-0.220-2/S90	8025802	10.5	VASD41-4.048-2-WAS5/S366	8026023	11.80
VAS31-0.220-2/XOR	8019571	10.5	VASD41-4.048-2-WAS5/S398	8018907	11.80
VAS31-0.220-5/P00	8008803	10.5	VASD41-4.048-2-WAS5/S74	8010163	11.80
VAS31-0.220-5/S366	8025716	10.5	VASD41-4.048-2-WAS5/S90	8010156	11.80
VAS31-0.220-5/S398	8025719	10.5	VASD41-4.048-2-WAS5/XOR	8010157	11.80
VAS31-0.220-5/S90	8013056	10.5	VASD41-4.048-5/P00	8009968	10.7
VAS31-0.220-5/XOR	8011711	10.5	VASD41-4.048-5/S366	8026063	10.7
VAS31-2.048-10/P00	8025804	10.6	VASD41-4.048-5/S398	8013317	10.7
VAS31-2.048-10/S366	8025723	10.6	VASD41-4.048-5/S90	8011383	10.7
VAS31-2.048-10/S398	8025726	10.6	VASD41-4.048-5/XOR	8011384	10.7
VAS31-2.048-10/S90	8017760	10.6	VASD41-4.048-5-WAS5/P00	8010164	11.80
VAS31-2.048-10/XOR	8019650	10.6	VASD41-4.048-5-WAS5/S366	8026024	11.80
VAS31-2.048-2/P00	8017818	10.6	VASD41-4.048-5-WAS5/S398	8025964	11.80
VAS31-2.048-2/S366	8025721	10.6	VASD41-4.048-5-WAS5/S74	8010168	11.80
VAS31-2.048-2/S398	8025724	10.6	VASD41-4.048-5-WAS5/S90	8010165	11.80
VAS31-2.048-2/S90	8019653	10.6	VASD41-4.048-5-WAS5/XOR	8010166	11.80
VAS31-2.048-2/XOR	8008783	10.6	VASD41-4.048-F55K	8012097	10.14
VAS31-2.048-5/P00	8025803	10.6	VBS21-0.220-10/P00	8007881	10.15
VAS31-2.048-5/S366	8025722	10.6	VBS21-0.220-10/S366	8025748	10.15
VAS31-2.048-5/S398	8025725	10.6	VBS21-0.220-10/S398	8025946	10.15
VAS31-2.048-5/S90	8013148	10.6	VBS21-0.220-10/S74	8007884	10.15
VAS31-2.048-5/XOR	8016887	10.6	VBS21-0.220-10/S90	8007882	10.15
VASD41-4.048-0,3-WAS5/P00	8010169	11.80	VBS21-0.220-10/XOR	8007883	10.15
VASD41-4.048-0,3-WAS5/S366	8026019	11.80	VBS21-0.220-2/P00	8007873	10.15
VASD41-4.048-0,3-WAS5/S398	8025962	11.80	VBS21-0.220-2/S366	8025746	10.15
VASD41-4.048-0,3-WAS5/S74	8010174	11.80	VBS21-0.220-2/S398	8025944	10.15
VASD41-4.048-0,3-WAS5/S90	8010170	11.80	VBS21-0.220-2/S74	8007876	10.15
VASD41-4.048-0,3-WAS5/XOR	8010171	11.80	VBS21-0.220-2/S90	8007874	10.15
VASD41-4.048-0,6-WAS5/P00	8010175	11.80	VBS21-0.220-2/XOR	8007875	10.15
VASD41-4.048-0,6-WAS5/S366	8026020	11.80	VBS21-0.220-5/P00	8007877	10.15
VASD41-4.048-0,6-WAS5/S398	8019453	11.80	VBS21-0.220-5/S366	8025747	10.15
VASD41-4.048-0,6-WAS5/S74	8010180	11.80	VBS21-0.220-5/S398	8025945	10.15
VASD41-4.048-0,6-WAS5/S90	8010176	11.80	VBS21-0.220-5/S74	8007880	10.15
VASD41-4.048-0,6-WAS5/XOR	8010177	11.80	VBS21-0.220-5/S90	8007878	10.15
VASD41-4.048-1,5-WAS5/P00	8010181	11.80	VBS21-0.220-5/XOR	8007879	10.15

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VBS21-2.048-0,3-WAS5.31/P00	8007670	11.81	VC-AC31-11.024-K	8031584	10.11
VBS21-2.048-0,3-WAS5.31/S366	8025888	11.81	VC-BC21-0.220-K	8028724	10.17
VBS21-2.048-0,3-WAS5.31/S398	8016285	11.81	VC-BC21-11.024-K	8028729	10.18
VBS21-2.048-0,3-WAS5.31/S74	8007673	11.81	VC-CC8.21-0.220-K	8028726	10.29
VBS21-2.048-0,3-WAS5.31/S90	8007671	11.81	VC-CC8.21-11.024-K	8028731	10.30
VBS21-2.048-0,3-WAS5.31/XOR	8007672	11.81	VC-CC9.21-0.220-K	8028727	10.35
VBS21-2.048-0,6-WAS5.31/P00	8007674	11.81	VC-CC9.21-11.024-K	8028732	10.36
VBS21-2.048-0,6-WAS5.31/S366	8025889	11.81	VC-IC21-0.220-K	8028725	10.23
VBS21-2.048-0,6-WAS5.31/S398	8016286	11.81	VC-IC21-11.024-K	8028730	10.24
VBS21-2.048-0,6-WAS5.31/S74	8007677	11.81	VCS8.21-0.220-10/P00	8007977	10.27
VBS21-2.048-0,6-WAS5.31/S90	8007675	11.81	VCS8.21-0.220-10/S366	8025772	10.27
VBS21-2.048-0,6-WAS5.31/XOR	8007676	11.81	VCS8.21-0.220-10/S398	8025850	10.27
VBS21-2.048-1,5-WAS5.31/P00	8007678	11.81	VCS8.21-0.220-10/S74	8007980	10.27
VBS21-2.048-1,5-WAS5.31/S366	8025891	11.81	VCS8.21-0.220-10/S90	8007978	10.27
VBS21-2.048-1,5-WAS5.31/S398	8025966	11.81	VCS8.21-0.220-10/XOR	8007979	10.27
VBS21-2.048-1,5-WAS5.31/S74	8007681	11.81	VCS8.21-0.220-2/P00	8007969	10.27
VBS21-2.048-1,5-WAS5.31/S90	8007679	11.81	VCS8.21-0.220-2/S366	8025770	10.27
VBS21-2.048-1,5-WAS5.31/XOR	8007680	11.81	VCS8.21-0.220-2/S398	8025848	10.27
VBS21-2.048-10/P00	8007869	10.16	VCS8.21-0.220-2/S74	8007972	10.27
VBS21-2.048-10/S366	8025751	10.16	VCS8.21-0.220-2/S90	8007970	10.27
VBS21-2.048-10/S398	8025949	10.16	VCS8.21-0.220-2/XOR	8007971	10.27
VBS21-2.048-10/S74	8007872	10.16	VCS8.21-0.220-5/P00	8007973	10.27
VBS21-2.048-10/S90	8007870	10.16	VCS8.21-0.220-5/S366	8025771	10.27
VBS21-2.048-10/XOR	8007871	10.16	VCS8.21-0.220-5/S398	8025849	10.27
VBS21-2.048-1-WAS5.31/P00	8007658	11.81	VCS8.21-0.220-5/S74	8007976	10.27
VBS21-2.048-1-WAS5.31/S366	8025890	11.81	VCS8.21-0.220-5/S90	8007974	10.27
VBS21-2.048-1-WAS5.31/S398	8018551	11.81	VCS8.21-0.220-5/XOR	8007975	10.27
VBS21-2.048-1-WAS5.31/S74	8007661	11.81	VCS8.21-2.048-10/P00	8007965	10.28
VBS21-2.048-1-WAS5.31/S90	8007659	11.81	VCS8.21-2.048-10/S366	8025775	10.28
VBS21-2.048-1-WAS5.31/XOR	8007660	11.81	VCS8.21-2.048-10/S398	8025853	10.28
VBS21-2.048-2/P00	8007861	10.16	VCS8.21-2.048-10/S74	8007968	10.28
VBS21-2.048-2/S366	8025749	10.16	VCS8.21-2.048-10/S90	8007966	10.28
VBS21-2.048-2/S398	8025947	10.16	VCS8.21-2.048-10/XOR	8007967	10.28
VBS21-2.048-2/S74	8007864	10.16	VCS8.21-2.048-2/P00	8007957	10.28
VBS21-2.048-2/S90	8007862	10.16	VCS8.21-2.048-2/S366	8025773	10.28
VBS21-2.048-2/XOR	8007863	10.16	VCS8.21-2.048-2/S398	8025851	10.28
VBS21-2.048-2-WAS5.31/P00	8007662	11.81	VCS8.21-2.048-2/S74	8007960	10.28
VBS21-2.048-2-WAS5.31/S366	8025892	11.81	VCS8.21-2.048-2/S90	8007958	10.28
VBS21-2.048-2-WAS5.31/S398	8025967	11.81	VCS8.21-2.048-2/XOR	8007959	10.28
VBS21-2.048-2-WAS5.31/S74	8007665	11.81	VCS8.21-2.048-5/P00	8007961	10.28
VBS21-2.048-2-WAS5.31/S90	8007663	11.81	VCS8.21-2.048-5/S366	8025774	10.28
VBS21-2.048-2-WAS5.31/XOR	8007664	11.81	VCS8.21-2.048-5/S398	8025852	10.28
VBS21-2.048-5/P00	8007865	10.16	VCS8.21-2.048-5/S74	8007964	10.28
VBS21-2.048-5/S366	8025750	10.16	VCS8.21-2.048-5/S90	8007962	10.28
VBS21-2.048-5/S398	8025948	10.16	VCS8.21-2.048-5/XOR	8007963	10.28
VBS21-2.048-5/S74	8007868	10.16	VCS9.21-0.220-10/P00	8008001	10.33
VBS21-2.048-5/S90	8007866	10.16	VCS9.21-0.220-10/S366	8025781	10.33
VBS21-2.048-5/XOR	8007867	10.16	VCS9.21-0.220-10/S398	8025859	10.33
VBS21-2.048-5-WAS5.31/P00	8007666	11.81	VCS9.21-0.220-10/S74	8008004	10.33
VBS21-2.048-5-WAS5.31/S366	8025893	11.81	VCS9.21-0.220-10/S90	8008002	10.33
VBS21-2.048-5-WAS5.31/S398	8025968	11.81	VCS9.21-0.220-10/XOR	8008003	10.33
VBS21-2.048-5-WAS5.31/S74	8007669	11.81	VCS9.21-0.220-2/P00	8007993	10.33
VBS21-2.048-5-WAS5.31/S90	8007667	11.81	VCS9.21-0.220-2/S366	8025779	10.33
VBS21-2.048-5-WAS5.31/XOR	8007668	11.81	VCS9.21-0.220-2/S398	8025857	10.33
VC-AC21-0.220-K	8028723	10.3	VCS9.21-0.220-2/S74	8007996	10.33
VC-AC21-11.024-K	8028728	10.4	VCS9.21-0.220-2/S90	8007994	10.33
VC-AC31-0.220-K	8031583	10.10	VCS9.21-0.220-2/XOR	8007995	10.33

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VC59.21-0.220-5/P00	8007997	10.33	VIS21-2.048-1,5-WAS5.31/S74	8007729	11.83
VC59.21-0.220-5/S366	8025780	10.33	VIS21-2.048-1,5-WAS5.31/S90	8007727	11.83
VC59.21-0.220-5/S398	8025858	10.33	VIS21-2.048-1,5-WAS5.31/XOR	8007728	11.83
VC59.21-0.220-5/S74	8008000	10.33	VIS21-2.048-10/P00	8007893	10.22
VC59.21-0.220-5/S90	8007998	10.33	VIS21-2.048-10/S366	8025763	10.22
VC59.21-0.220-5/XOR	8007999	10.33	VIS21-2.048-10/S398	8025955	10.22
VC59.21-2.048-10/P00	8007989	10.34	VIS21-2.048-10/S74	8007896	10.22
VC59.21-2.048-10/S366	8025793	10.34	VIS21-2.048-10/S90	8007894	10.22
VC59.21-2.048-10/S398	8025871	10.34	VIS21-2.048-10/XOR	8007895	10.22
VC59.21-2.048-10/S74	8007992	10.34	VIS21-2.048-1-WAS5.31/P00	8007706	11.83
VC59.21-2.048-10/S90	8007990	10.34	VIS21-2.048-1-WAS5.31/S366	8025929	11.83
VC59.21-2.048-10/XOR	8007991	10.34	VIS21-2.048-1-WAS5.31/S398	8025978	11.83
VC59.21-2.048-2/P00	8007981	10.34	VIS21-2.048-1-WAS5.31/S74	8007709	11.83
VC59.21-2.048-2/S366	8025792	10.34	VIS21-2.048-1-WAS5.31/S90	8007707	11.83
VC59.21-2.048-2/S398	8025869	10.34	VIS21-2.048-1-WAS5.31/XOR	8007708	11.83
VC59.21-2.048-2/S74	8007984	10.34	VIS21-2.048-2/P00	8007885	10.22
VC59.21-2.048-2/S90	8007982	10.34	VIS21-2.048-2/S366	8025761	10.22
VC59.21-2.048-2/XOR	8007983	10.34	VIS21-2.048-2/S398	8025953	10.22
VC59.21-2.048-5/P00	8007985	10.34	VIS21-2.048-2/S74	8007888	10.22
VC59.21-2.048-5/S366	8025791	10.34	VIS21-2.048-2/S90	8007886	10.22
VC59.21-2.048-5/S398	8025870	10.34	VIS21-2.048-2/XOR	8007887	10.22
VC59.21-2.048-5/S74	8007988	10.34	VIS21-2.048-2-WAS5.31/P00	8007710	11.83
VC59.21-2.048-5/S90	8007986	10.34	VIS21-2.048-2-WAS5.31/S366	8025931	11.83
VC59.21-2.048-5/XOR	8007987	10.34	VIS21-2.048-2-WAS5.31/S398	8025979	11.83
VIS21-0.220-10/P00	8007905	10.21	VIS21-2.048-2-WAS5.31/S74	8007713	11.83
VIS21-0.220-10/S366	8025760	10.21	VIS21-2.048-2-WAS5.31/S90	8007711	11.83
VIS21-0.220-10/S398	8025952	10.21	VIS21-2.048-2-WAS5.31/XOR	8007712	11.83
VIS21-0.220-10/S74	8007908	10.21	VIS21-2.048-5/P00	8007889	10.22
VIS21-0.220-10/S90	8007906	10.21	VIS21-2.048-5/S366	8025762	10.22
VIS21-0.220-10/XOR	8007907	10.21	VIS21-2.048-5/S398	8025954	10.22
VIS21-0.220-2/P00	8007897	10.21	VIS21-2.048-5/S74	8007892	10.22
VIS21-0.220-2/S366	8025758	10.21	VIS21-2.048-5/S90	8007890	10.22
VIS21-0.220-2/S398	8025950	10.21	VIS21-2.048-5/XOR	8007891	10.22
VIS21-0.220-2/S74	8007900	10.21	VIS21-2.048-5-WAS5.31/P00	8007714	11.83
VIS21-0.220-2/S90	8007898	10.21	VIS21-2.048-5-WAS5.31/S366	8025932	11.83
VIS21-0.220-2/XOR	8007899	10.21	VIS21-2.048-5-WAS5.31/S398	8013280	11.83
VIS21-0.220-5/P00	8007901	10.21	VIS21-2.048-5-WAS5.31/S74	8007717	11.83
VIS21-0.220-5/S366	8025759	10.21	VIS21-2.048-5-WAS5.31/S90	8007715	11.83
VIS21-0.220-5/S398	8025951	10.21	VIS21-2.048-5-WAS5.31/XOR	8007716	11.83
VIS21-0.220-5/S74	8007904	10.21	W		
VIS21-0.220-5/S90	8007902	10.21	WAK12-10/P00	8027590	2.4
VIS21-0.220-5/XOR	8007903	10.21	WAK12-10/S2429/S2430	8039713	8.3
VIS21-2.048-0,3-WAS5.31/P00	8007718	11.83	WAK12-10/S366	8027593	2.4
VIS21-2.048-0,3-WAS5.31/S366	8025927	11.83	WAK12-10-WAS12/S2429/S2430	8039957	8.23
VIS21-2.048-0,3-WAS5.31/S398	8025977	11.83	WAK12-2/P00	8027588	2.4
VIS21-2.048-0,3-WAS5.31/S74	8007721	11.83	WAK12-2/S2429/S2430	8039711	8.3
VIS21-2.048-0,3-WAS5.31/S90	8007719	11.83	WAK12-2/S366	8027591	2.4
VIS21-2.048-0,3-WAS5.31/XOR	8007720	11.83	WAK12-2-WAS12/S2429/S2430	8039955	8.23
VIS21-2.048-0,6-WAS5.31/P00	8007722	11.83	WAK12-5/P00	8027589	2.4
VIS21-2.048-0,6-WAS5.31/S366	8025928	11.83	WAK12-5/S2429/S2430	8039712	8.3
VIS21-2.048-0,6-WAS5.31/S398	8020141	11.83	WAK12-5/S366	8027592	2.4
VIS21-2.048-0,6-WAS5.31/S74	8007725	11.83	WAK12-5-WAS12/S2429/S2430	8039956	8.23
VIS21-2.048-0,6-WAS5.31/S90	8007723	11.83	WAK3-0,3-WAS3/P00	8006716	11.1
VIS21-2.048-0,6-WAS5.31/XOR	8007724	11.83	WAK3-0,3-WAS3/S366	8006721	11.1
VIS21-2.048-1,5-WAS5.31/P00	8007726	11.83	WAK3-0,3-WAS3/S398	8022835	11.1
VIS21-2.048-1,5-WAS5.31/S366	8025930	11.83	WAK3-0,3-WAS3/S74	8017810	11.1
VIS21-2.048-1,5-WAS5.31/S398	8019029	11.83		8006720	11.1

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WAK3-0,3-WAS3/S90	8006717	11.1	WAK3P2-10/S398	8019971	2.5
WAK3-0,3-WAS3/XOR	8006718	11.1	WAK3P2-10/S74	8007249	2.5
WAK3-0,6-WAS3/S366	8022836	11.1	WAK3P2-10/S90	8007246	2.5
WAK3-0,6-WAS3/S398	8018071	11.1	WAK3P2-10/XOR	8007247	2.5
WAK3-0,6-WAS3/S74	8006725	11.1	WAK3P2-2/P00	8007235	2.5
WAK3-0,6-WAS3/S90	8006722	11.1	WAK3P2-2/S366	8019966	2.5
WAK3-0,6-WAS3/XOR	8006723	11.1	WAK3P2-2/S398	8019969	2.5
WAK3-1,5-WAS3/P00	8006726	11.1	WAK3P2-2/S74	8007239	2.5
WAK3-1,5-WAS3/S366	8022838	11.1	WAK3P2-2/S90	8007236	2.5
WAK3-1,5-WAS3/S398	8021882	11.1	WAK3P2-2/XOR	8007237	2.5
WAK3-1,5-WAS3/S74	8006730	11.1	WAK3P2-5/P00	8007240	2.5
WAK3-1,5-WAS3/S90	8006727	11.1	WAK3P2-5/S366	8019967	2.5
WAK3-1,5-WAS3/XOR	8006728	11.1	WAK3P2-5/S398	8019970	2.5
WAK3-10/P00	8007041	2.1	WAK3P2-5/S74	8007244	2.5
WAK3-10/S2429/S2430	8039211	8.1	WAK3P2-5/S90	8007241	2.5
WAK3-10/S366	8019946	2.1	WAK3P2-5/XOR	8007242	2.5
WAK3-10/S398	8015042	2.1	WAK4.5-10/S2429/S2430	8039213	8.2
WAK3-10/S74	8007045	2.1	WAK4.5-10-WAS4.5/S2429/S2430	8039951	8.21
WAK3-10/S90	8007042	2.1	WAK4.5-2/S2429/S2430	8039212	8.2
WAK3-10/XOR	8007043	2.1	WAK4.5-2-WAS4.5/S2429/S2430	8039949	8.21
WAK3-10-WAS3/S2429/S2430	8039481	8.19	WAK4.5-5/S2429/S2430	8036087	8.2
WAK3-1-WAS3/P00	8006701	11.1	WAK4.5-5-WAS4.5/S2429/S2430	8039950	8.21
WAK3-1-WAS3/S366	8022837	11.1	WAK4-0,3-WAS4/P00	8006752	11.2
WAK3-1-WAS3/S398	8020505	11.1	WAK4-0,3-WAS4/S366	8022846	11.2
WAK3-1-WAS3/S74	8006705	11.1	WAK4-0,3-WAS4/S398	8018758	11.2
WAK3-1-WAS3/S90	8006702	11.1	WAK4-0,3-WAS4/S74	8006758	11.2
WAK3-1-WAS3/XOR	8006703	11.1	WAK4-0,3-WAS4/S90	8006753	11.2
WAK3-2/P00	8007031	2.1	WAK4-0,3-WAS4/XOR	8006754	11.2
WAK3-2/S2429/S2430	8039210	8.1	WAK4-0,6-WAS4/P00	8006759	11.2
WAK3-2/S366	8019944	2.1	WAK4-0,6-WAS4/S366	8022847	11.2
WAK3-2/S398	8010200	2.1	WAK4-0,6-WAS4/S398	8017319	11.2
WAK3-2/S74	8007035	2.1	WAK4-0,6-WAS4/S74	8006765	11.2
WAK3-2/S90	8007032	2.1	WAK4-0,6-WAS4/S90	8006760	11.2
WAK3-2/XOR	8007033	2.1	WAK4-0,6-WAS4/XOR	8006761	11.2
WAK3-2-WAS3/P00	8006706	11.1	WAK4-1,5-WAS4/P00	8006766	11.2
WAK3-2-WAS3/S2429/S2430	8039479	8.19	WAK4-1,5-WAS4/S366	8022849	11.2
WAK3-2-WAS3/S366	8022839	11.1	WAK4-1,5-WAS4/S398	8017321	11.2
WAK3-2-WAS3/S398	8020506	11.1	WAK4-1,5-WAS4/S74	8006772	11.2
WAK3-2-WAS3/S74	8006710	11.1	WAK4-1,5-WAS4/S90	8006767	11.2
WAK3-2-WAS3/S90	8006707	11.1	WAK4-1,5-WAS4/XOR	8006768	11.2
WAK3-2-WAS3/XOR	8006708	11.1	WAK4-10/P00	8007060	2.1
WAK3-5/P00	8007036	2.1	WAK4-10/S2429/S2430	8036154	8.1
WAK3-5/S2429/S2430	8036085	8.1	WAK4-10/S366	8019958	2.1
WAK3-5/S366	8019945	2.1	WAK4-10/S398	8017314	2.1
WAK3-5/S398	8015041	2.1	WAK4-10/S74	8007066	2.1
WAK3-5/S74	8007040	2.1	WAK4-10/S90	8007061	2.1
WAK3-5/S90	8007037	2.1	WAK4-10/XOR	8007062	2.1
WAK3-5/XOR	8007038	2.1	WAK4-10-WAS4/S2429/S2430	8038670	8.20
WAK3-5-WAS3/P00	8006711	11.1	WAK4-1-WAS4/P00	8006731	11.2
WAK3-5-WAS3/S2429/S2430	8039480	8.19	WAK4-1-WAS4/S366	8022848	11.2
WAK3-5-WAS3/S366	8022840	11.1	WAK4-1-WAS4/S398	8017320	11.2
WAK3-5-WAS3/S398	8018090	11.1	WAK4-1-WAS4/S74	8006737	11.2
WAK3-5-WAS3/S74	8006715	11.1	WAK4-1-WAS4/S90	8006732	11.2
WAK3-5-WAS3/S90	8006712	11.1	WAK4-1-WAS4/XOR	8006733	11.2
WAK3-5-WAS3/XOR	8006713	11.1	WAK4-2/P00	8007046	2.1
WAK3P2-10/P00	8007245	2.5	WAK4-2/S2429/S2430	8036518	8.1
WAK3P2-10/S366	8019968	2.5	WAK4-2/S366	8019947	2.1

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WAK4-2/S398	8017523	2.1	WAK5-1,5-WAS5/S398	8016478	11.3
WAK4-2/S74	8007052	2.1	WAK5-1,5-WAS5/S74	8006802	11.3
WAK4-2/S90	8007047	2.1	WAK5-1,5-WAS5/S90	8006799	11.3
WAK4-2/XOR	8007048	2.1	WAK5-1,5-WAS5/XOR	8006800	11.3
WAK4-2-WAS4/P00	8006738	11.2	WAK5-10/P00	8007077	2.2
WAK4-2-WAS4/S2429/S2430	8038668	8.20	WAK5-10/S366	8019961	2.2
WAK4-2-WAS4/S366	8022850	11.2	WAK5-10/S398	8019684	2.2
WAK4-2-WAS4/S398	8017322	11.2	WAK5-10/S74	8007081	2.2
WAK4-2-WAS4/S74	8006744	11.2	WAK5-10/S90	8007078	2.2
WAK4-2-WAS4/S90	8006739	11.2	WAK5-10/XOR	8007079	2.2
WAK4-2-WAS4/XOR	8006740	11.2	WAK5-1-WAS5/P00	8006773	11.3
WAK4-5/P00	8007053	2.1	WAK5-1-WAS5/S366	8022855	11.3
WAK4-5/S2429/S2430	8036086	8.1	WAK5-1-WAS5/S398	8016479	11.3
WAK4-5/S366	8019957	2.1	WAK5-1-WAS5/S74	8006777	11.3
WAK4-5/S398	8017313	2.1	WAK5-1-WAS5/S90	8006774	11.3
WAK4-5/S74	8007059	2.1	WAK5-1-WAS5/XOR	8006775	11.3
WAK4-5/S90	8007054	2.1	WAK5-2/P00	8007067	2.2
WAK4-5/XOR	8007055	2.1	WAK5-2/S366	8019959	2.2
WAK4-5-WAS4/P00	8006745	11.2	WAK5-2/S398	8019963	2.2
WAK4-5-WAS4/S2429/S2430	8038669	8.20	WAK5-2/S74	8007071	2.2
WAK4-5-WAS4/S366	8022851	11.2	WAK5-2/S90	8007068	2.2
WAK4-5-WAS4/S398	8017522	11.2	WAK5-2/XOR	8007069	2.2
WAK4-5-WAS4/S74	8006751	11.2	WAK5-2-WAS5/P00	8006778	11.3
WAK4-5-WAS4/S90	8006746	11.2	WAK5-2-WAS5/S366	8022857	11.3
WAK4-5-WAS4/XOR	8006747	11.2	WAK5-2-WAS5/S398	8016480	11.3
WAK4P2-10/P00	8007264	2.5	WAK5-2-WAS5/S74	8006782	11.3
WAK4P2-10/S366	8019974	2.5	WAK5-2-WAS5/S90	8006779	11.3
WAK4P2-10/S398	8019977	2.5	WAK5-2-WAS5/XOR	8006780	11.3
WAK4P2-10/S74	8007270	2.5	WAK5-5/P00	8007072	2.2
WAK4P2-10/S90	8007265	2.5	WAK5-5/S366	8019960	2.2
WAK4P2-10/XOR	8007266	2.5	WAK5-5/S398	8017928	2.2
WAK4P2-2/P00	8007250	2.5	WAK5-5/S74	8007076	2.2
WAK4P2-2/S366	8019972	2.5	WAK5-5/S90	8007073	2.2
WAK4P2-2/S398	8019975	2.5	WAK5-5/XOR	8007074	2.2
WAK4P2-2/S74	8007256	2.5	WAK5-5-WAS5/P00	8006783	11.3
WAK4P2-2/S90	8007251	2.5	WAK5-5-WAS5/S366	8022858	11.3
WAK4P2-2/XOR	8007252	2.5	WAK5-5-WAS5/S398	8017371	11.3
WAK4P2-5/P00	8007257	2.5	WAK5-5-WAS5/S74	8006787	11.3
WAK4P2-5/S366	8019973	2.5	WAK5-5-WAS5/S90	8006784	11.3
WAK4P2-5/S398	8019976	2.5	WAK5-5-WAS5/XOR	8006785	11.3
WAK4P2-5/S74	8007263	2.5	WAK6-10/P00	8007023	2.2
WAK4P2-5/S90	8007258	2.5	WAK6-10/S90	8007024	2.2
WAK4P2-5/XOR	8007259	2.5	WAK6-2/P00	8007019	2.2
WAK5-0,3-WAS5/P00	8006788	11.3	WAK6-2/S90	8007020	2.2
WAK5-0,3-WAS5/S366	8022853	11.3	WAK6-5/P00	8007021	2.2
WAK5-0,3-WAS5/S398	8017903	11.3	WAK6-5/S90	8007022	2.2
WAK5-0,3-WAS5/S74	8006792	11.3	WAK8.005-10/S1117	8031292	2.3
WAK5-0,3-WAS5/S90	8006789	11.3	WAK8.005-2/S1117	8031290	2.3
WAK5-0,3-WAS5/XOR	8006790	11.3	WAK8.005-5/S1117	8031291	2.3
WAK5-0,6-WAS5/P00	8006793	11.3	WAK8-0,3-WAS8/P00	8022862	11.4
WAK5-0,6-WAS5/S366	8022854	11.3	WAK8-0,3-WAS8/S366	8022868	11.4
WAK5-0,6-WAS5/S398	8016477	11.3	WAK8-0,6-WAS8/P00	8022863	11.4
WAK5-0,6-WAS5/S74	8006797	11.3	WAK8-0,6-WAS8/S366	8022869	11.4
WAK5-0,6-WAS5/S90	8006794	11.3	WAK8-1,5-WAS8/P00	8022864	11.4
WAK5-0,6-WAS5/XOR	8006795	11.3	WAK8-1,5-WAS8/S366	8022871	11.4
WAK5-1,5-WAS5/P00	8006798	11.3	WAK8-10/P00	8007029	2.3
WAK5-1,5-WAS5/S366	8022856	11.3	WAK8-10/S2429/S2430	8039216	8.2

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WAK8-10/S366	8019965	2.3	WAKS3-2/S2429/S2430	8039217	8.4
WAK8-10/S90	8007030	2.3	WAKS3-2/S366	8019161	2.6
WAK8-10-WAS8/S2429/S2430	8039954	8.22	WAKS3-2-WASS3/P00	8006667	11.5
WAK8-1-WAS8/P00	8019131	11.4	WAKS3-2-WASS3/S2429/S2430	8039996	8.24
WAK8-1-WAS8/S366	8022870	11.4	WAKS3-2-WASS3/S366	8022881	11.5
WAK8-2/P00	8007025	2.3	WAKS3-5/P00	8006652	2.6
WAK8-2/S2429/S2430	8039214	8.2	WAKS3-5/S2429/S2430	8039218	8.4
WAK8-2/S366	8019962	2.3	WAKS3-5/S366	8019162	2.6
WAK8-2/S90	8007026	2.3	WAKS3-5-WASS3/P00	8006669	11.5
WAK8-2-WAS8/P00	8022865	11.4	WAKS3-5-WASS3/S2429/S2430	8039997	8.24
WAK8-2-WAS8/S2429/S2430	8039952	8.22	WAKS3-5-WASS3/S366	8022882	11.5
WAK8-2-WAS8/S366	8022872	11.4	WAKS4.5-0,3-WASS4.5/P00	8022889	11.7
WAK8-5/P00	8007027	2.3	WAKS4.5-0,3-WASS4.5/S366	8022703	11.7
WAK8-5/S2429/S2430	8039215	8.2	WAKS4.5-0,6-WASS4.5/P00	8022890	11.7
WAK8-5/S366	8019964	2.3	WAKS4.5-0,6-WASS4.5/S366	8022704	11.7
WAK8-5/S90	8007028	2.3	WAKS4.5-1,5-WASS4.5/P00	8022892	11.7
WAK8-5-WAS8/P00	8022866	11.4	WAKS4.5-1,5-WASS4.5/S366	8022705	11.7
WAK8-5-WAS8/S2429/S2430	8039953	8.22	WAKS4.5-10/P00	8019169	2.7
WAK8-5-WAS8/S366	8022873	11.4	WAKS4.5-10/S2429/S2430	8039124	8.5
WAKC4	8004811	2.11	WAKS4.5-10/S366	8019172	2.7
WAKC4S	8019718	2.15	WAKS4.5-10-WASS4.5/S2429/S2430	8040004	8.26
WAKC5K	8004815	2.11	WAKS4.5-1-WASS4.5/P00	8022891	11.7
WAKC8K	8021862	2.12	WAKS4.5-1-WASS4.5/S366	8022699	11.7
WAKCS4K	8035253	2.13	WAKS4.5-2/P00	8019167	2.7
WAKCS5K	8035254	2.13	WAKS4.5-2/S2429/S2430	8039222	8.5
WAKCS8K	8035193	2.14	WAKS4.5-2/S366	8019170	2.7
WAKL3-10/P00	8016719	2.10	WAKS4.5-2-WASS4.5/P00	8022893	11.7
WAKL3-2/P00	8009028	2.10	WAKS4.5-2-WASS4.5/S2429/S2430	8040002	8.26
WAKL3-5/P00	8018915	2.10	WAKS4.5-2-WASS4.5/S366	8022700	11.7
WAKL4-10/P00	8016194	2.10	WAKS4.5-5/P00	8019168	2.7
WAKL4-2/P00	8019328	2.10	WAKS4.5-5/S2429/S2430	8039223	8.5
WAKL4-5/P00	8009034	2.10	WAKS4.5-5/S366	8019171	2.7
WAKS12-10/P00	8028495	2.8	WAKS4.5-5-WASS4.5/P00	8022894	11.7
WAKS12-10/S2429/S2430	8039721	8.6	WAKS4.5-5-WASS4.5/S2429/S2430	8040003	8.26
WAKS12-10/S366	8028498	2.8	WAKS4.5-5-WASS4.5/S366	8022702	11.7
WAKS12-10-WASS12/S2429/S2430	8040010	8.28	WAKS4-0,3-WASS4/P00	8006683	11.6
WAKS12-2/P00	8028493	2.8	WAKS4-0,3-WASS4/S366	8022884	11.6
WAKS12-2/S2429/S2430	8039719	8.6	WAKS4-0,6-WASS4/P00	8006685	11.6
WAKS12-2/S366	8028496	2.8	WAKS4-0,6-WASS4/S366	8022885	11.6
WAKS12-2-WASS12/S2429/S2430	8040008	8.28	WAKS4-1,5-WASS4/P00	8006687	11.6
WAKS12-5/P00	8028494	2.8	WAKS4-1,5-WASS4/S366	8022887	11.6
WAKS12-5/S2429/S2430	8039720	8.6	WAKS4-10/P00	8006660	2.6
WAKS12-5/S366	8028497	2.8	WAKS4-10/S2429/S2430	8039221	8.4
WAKS12-5-WASS12/S2429/S2430	8040009	8.28	WAKS4-10/S366	8019166	2.6
WAKS3-0,3-WASS3/P00	8006671	11.5	WAKS4-10-WASS4/S2429/S2430	8040001	8.25
WAKS3-0,3-WASS3/S366	8022877	11.5	WAKS4-1-WASS4/P00	8006677	11.6
WAKS3-0,6-WASS3/P00	8006673	11.5	WAKS4-1-WASS4/S366	8022886	11.6
WAKS3-0,6-WASS3/S366	8022878	11.5	WAKS4-2/P00	8006656	2.6
WAKS3-1,5-WASS3/P00	8006675	11.5	WAKS4-2/S2429/S2430	8039081	8.4
WAKS3-1,5-WASS3/S366	8022880	11.5	WAKS4-2/S366	8019164	2.6
WAKS3-10/P00	8006654	2.6	WAKS4-2-WASS4/P00	8006679	11.6
WAKS3-10/S2429/S2430	8039219	8.4	WAKS4-2-WASS4/S2429/S2430	8039999	8.25
WAKS3-10/S366	8019163	2.6	WAKS4-2-WASS4/S366	8022736	11.6
WAKS3-10-WASS3/S2429/S2430	8039998	8.24	WAKS4-5/P00	8006658	2.6
WAKS3-1-WASS3/P00	8006665	11.5	WAKS4-5/S2429/S2430	8039220	8.4
WAKS3-1-WASS3/S366	8022879	11.5	WAKS4-5/S366	8019165	2.6
WAKS3-2/P00	8006650	2.6	WAKS4-5-WASS4/P00	8006681	11.6

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WAKS4-5-WASS4/S2429/S2430	8040000	8.25	WAS4.5-2/S2429/S2430	8039235	8.11
WAKS4-5-WASS4/S366	8022577	11.6	WAS4.5-5/S2429/S2430	8036093	8.11
WAKS8-0,3-WASS8/P00	8022897	11.8	WAS4-0,3-2FKM3/S89/P00	8012653	12.15
WAKS8-0,3-WASS8/S366	8022904	11.8	WAS4-0,3-2FKM3/S89/S74	8012671	12.15
WAKS8-0,6-WASS8/P00	8022898	11.8	WAS4-0,3-2FKM3/S89/S90	8012659	12.15
WAKS8-0,6-WASS8/S366	8022905	11.8	WAS4-0,3-2FKM3/S89/XOR	8012665	12.15
WAKS8-1,5-WASS8/P00	8022900	11.8	WAS4-0,6-2FKM3/S89/P00	8012654	12.15
WAKS8-1,5-WASS8/S366	8022906	11.8	WAS4-0,6-2FKM3/S89/S74	8012672	12.15
WAKS8-10/P00	8019175	2.7	WAS4-0,6-2FKM3/S89/S90	8012660	12.15
WAKS8-10/S2429/S2430	8037409	8.5	WAS4-0,6-2FKM3/S89/XOR	8012666	12.15
WAKS8-10/S366	8019178	2.7	WAS4-0,6-2FKM3P3/S89/S74	8015522	12.16
WAKS8-10-WASS8/S2429/S2430	8040007	8.27	WAS4-0,6-2FKM3P3/S89/S74	8015523	12.16
WAKS8-1-WASS8/P00	8022899	11.8	WAS4-1,5-2FKM3/S89/P00	8012656	12.15
WAKS8-1-WASS8/S366	8020248	11.8	WAS4-1,5-2FKM3/S89/S74	8012674	12.15
WAKS8-2/P00	8019173	2.7	WAS4-1,5-2FKM3/S89/S90	8012662	12.15
WAKS8-2/S2429/S2430	8037407	8.5	WAS4-1,5-2FKM3/S89/XOR	8012668	12.15
WAKS8-2/S366	8019176	2.7	WAS4-10/P00	8007111	2.30
WAKS8-2-WASS8/P00	8022901	11.8	WAS4-10/S2429/S2430	8039234	8.10
WAKS8-2-WASS8/S2429/S2430	8040005	8.27	WAS4-10/S366	8019988	2.30
WAKS8-2-WASS8/S366	8022810	11.8	WAS4-10/S398	8019704	2.30
WAKS8-5/P00	8019174	2.7	WAS4-10/S74	8007117	2.30
WAKS8-5/S2429/S2430	8037408	8.5	WAS4-10/S90	8007112	2.30
WAKS8-5/S366	8019177	2.7	WAS4-10/XOR	8007113	2.30
WAKS8-5-WASS8/P00	8022902	11.8	WAS4-1-2FKM3/S89/P00	8012655	12.15
WAKS8-5-WASS8/S2429/S2430	8040006	8.27	WAS4-1-2FKM3/S89/S74	8012673	12.15
WAKS8-5-WASS8/S366	8022574	11.8	WAS4-1-2FKM3/S89/S90	8012661	12.15
WAS12-10/P00	8027596	2.32	WAS4-1-2FKM3/S89/XOR	8012667	12.15
WAS12-10/S2429/S2430	8039945	8.12	WAS4-1-2FKM3P3/S89/XOR	8015710	12.16
WAS12-10/S366	8027599	2.32	WAS4-2/P00	8007097	2.30
WAS12-2/P00	8027594	2.32	WAS4-2/S2429/S2430	8039233	8.10
WAS12-2/S2429/S2430	8039943	8.12	WAS4-2/S366	8019986	2.30
WAS12-2/S366	8027597	2.32	WAS4-2/S398	8019989	2.30
WAS12-5/P00	8027595	2.32	WAS4-2/S74	8007103	2.30
WAS12-5/S2429/S2430	8039944	8.12	WAS4-2/S90	8007098	2.30
WAS12-5-5/S366	8027598	2.32	WAS4-2/XOR	8007099	2.30
WAS3-10/P00	8007092	2.30	WAS4-2-2FKM3/S89/P00	8012657	12.15
WAS3-10/S2429/S2430	8039232	8.10	WAS4-2-2FKM3/S89/S74	8012675	12.15
WAS3-10/S366	8019982	2.30	WAS4-2-2FKM3/S89/XOR	8012669	12.15
WAS3-10/S398	8019984	2.30	WAS4-2-2FKM3P3/S89/S90	8012663	12.15
WAS3-10/S74	8007096	2.30	WAS4-5/P00	8007104	2.30
WAS3-10/S90	8007093	2.30	WAS4-5/S2429/S2430	8036092	8.10
WAS3-10/XOR	8007094	2.30	WAS4-5/S366	8019987	2.30
WAS3-2/P00	8007082	2.30	WAS4-5/S398	8019703	2.30
WAS3-2/S2429/S2430	8039231	8.10	WAS4-5/S74	8007110	2.30
WAS3-2/S366	8019980	2.30	WAS4-5/S90	8007105	2.30
WAS3-2/S398	8019983	2.30	WAS4-5/XOR	8007106	2.30
WAS3-2/S74	8007086	2.30	WAS4-5-2FKM3/S89/P00	8012658	12.15
WAS3-2/S90	8007083	2.30	WAS4-5-2FKM3/S89/S74	8012676	12.15
WAS3-2/XOR	8007084	2.30	WAS4-5-2FKM3/S89/S90	8012664	12.15
WAS3-5/P00	8007087	2.30	WAS4-5-2FKM3/S89/XOR	8012670	12.15
WAS3-5/S2429/S2430	8036091	8.10	WAS5-10/P00	8007128	2.31
WAS3-5/S366	8019981	2.30	WAS5-10/S366	8019992	2.31
WAS3-5/S398	8019985	2.30	WAS5-10/S398	8019185	2.31
WAS3-5/S74	8007091	2.30	WAS5-10/S74	8007132	2.31
WAS3-5/S90	8007088	2.30	WAS5-10/S90	8007129	2.31
WAS3-5/XOR	8007089	2.30	WAS5-10/XOR	8007130	2.31
WAS4.5-10/S2429/S2430	8038342	8.11	WAS5-2/P00	8007118	2.31

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WAS5-2/S366	8019990	2.31	WASS3-5/P00	8006637	2.33
WAS5-2/S398	8019993	2.31	WASS3-5/S2429/S2430	8039240	8.13
WAS5-2/S74	8007122	2.31	WASS3-5/S366	8019144	2.33
WAS5-2/S90	8007119	2.31	WASS4.5-10/P00	8019151	2.34
WAS5-2/XOR	8007120	2.31	WASS4.5-10/S2429/S2430	8039247	8.14
WAS5-5/P00	8007123	2.31	WASS4.5-10/S366	8019154	2.34
WAS5-5/S366	8019991	2.31	WASS4.5-2/P00	8019149	2.34
WAS5-5/S398	8019994	2.31	WASS4.5-2/S2429/S2430	8039245	8.14
WAS5-5/S74	8007127	2.31	WASS4.5-2/S366	8019152	2.34
WAS5-5/S90	8007124	2.31	WASS4.5-5/P00	8019150	2.34
WAS5-5/XOR	8007125	2.31	WASS4.5-5/S2429/S2430	8039246	8.14
WAS6-10/P00	8007011	2.31	WASS4.5-5/S366	8019153	2.34
WAS6-10/S90	8007012	2.31	WASS4-10/P00	8006645	2.33
WAS6-2/P00	8007007	2.31	WASS4-10/S2429/S2430	8039244	8.13
WAS6-2/S90	8007008	2.31	WASS4-10/S366	8019148	2.33
WAS6-5/P00	8007009	2.31	WASS4-2/P00	8006641	2.33
WAS6-5/S90	8007010	2.31	WASS4-2/S2429/S2430	8039242	8.13
WAS8-10/P00	8007017	2.32	WASS4-2/S366	8019146	2.33
WAS8-10/S2429/S2430	8039238	8.11	WASS4-5/P00	8006643	2.33
WAS8-10/S366	8019997	2.32	WASS4-5/S2429/S2430	8039243	8.13
WAS8-10/S90	8007018	2.32	WASS4-5/S366	8019147	2.33
WAS8-2/P00	8007013	2.32	WASS8-10/P00	8019157	2.34
WAS8-2/S2429/S2430	8039236	8.11	WASS8-10/S2429/S2430	8039250	8.14
WAS8-2/S366	8019995	2.32	WASS8-10/S366	8019160	2.34
WAS8-2/S90	8007014	2.32	WASS8-2/P00	8019155	2.34
WAS8-5/P00	8007015	2.32	WASS8-2/S2429/S2430	8039248	8.14
WAS8-5/S2429/S2430	8039237	8.11	WASS8-2/S366	8019158	2.34
WAS8-5/S366	8019996	2.32	WASS8-5/P00	8019156	2.34
WAS8-5/S90	8007016	2.32	WASS8-5/S2429/S2430	8039249	8.14
WASC4	8004804	2.38	WASS8-5/S366	8019159	2.34
WASC4S	8019716	2.42	WKP3-0,3-SP3/P00	8022667	11.63
WASC5K	8004805	2.38	WKP3-0,3-SP3/S366	8022720	11.63
WASC8K	8021863	2.39	WKP3-0,3-SP3/S74	8022687	11.63
WASC54K	8035251	2.40	WKP3-0,3-SP3/S77/S398	8024098	11.63
WASC55K	8035252	2.40	WKP3-0,3-SP3/S90	8017477	11.63
WASC58K	8035192	2.41	WKP3-0,3-SP3/XOR	8022680	11.63
WASL3-10/P00	8025637	2.37	WKP3-0,3-WAS3/P00	8007801	11.43
WASL3-2/P00	8025635	2.37	WKP3-0,3-WAS3/S366	8023880	11.43
WASL3-5/P00	8025636	2.37	WKP3-0,3-WAS3/S74	8007804	11.43
WASL4-10/P00	8025640	2.37	WKP3-0,3-WAS3/S77/S398	8023887	11.43
WASL4-2/P00	8025638	2.37	WKP3-0,3-WAS3/S90	8007802	11.43
WASL4-5/P00	8025639	2.37	WKP3-0,3-WAS3/XOR	8007803	11.43
WASS12-10/P00	8028490	2.35	WKP3-0,6-SP3/P00	8022668	11.63
WASS12-10/S2429/S2430	8039948	8.15	WKP3-0,6-SP3/S366	8022721	11.63
WASS12-10/S366	8028492	2.35	WKP3-0,6-SP3/S74	8022688	11.63
WASS12-2/P00	8028457	2.35	WKP3-0,6-SP3/S77/S398	8024099	11.63
WASS12-2/S2429/S2430	8039946	8.15	WKP3-0,6-SP3/S90	8022674	11.63
WASS12-2/S366	8028458	2.35	WKP3-0,6-SP3/XOR	8022681	11.63
WASS12-5/P00	8028489	2.35	WKP3-0,6-WAS3/P00	8007805	11.43
WASS12-5/S2429/S2430	8039947	8.15	WKP3-0,6-WAS3/S366	8023881	11.43
WASS12-5/S366	8028491	2.35	WKP3-0,6-WAS3/S74	8007808	11.43
WASS3-10/P00	8006639	2.33	WKP3-0,6-WAS3/S77/S398	8023888	11.43
WASS3-10/S2429/S2430	8039241	8.13	WKP3-0,6-WAS3/S90	8007806	11.43
WASS3-10/S366	8019145	2.33	WKP3-0,6-WAS3/XOR	8007807	11.43
WASS3-2/P00	8006635	2.33	WKP3-1,5-SP3/P00	8022670	11.63
WASS3-2/S2429/S2430	8039239	8.13	WKP3-1,5-SP3/S366	8022723	11.63
WASS3-2/S366	8019143	2.33	WKP3-1,5-SP3/S74	8022690	11.63

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WKP3-1,5-SP3/S77/S398	8024101	11.63	WKP3-5-WAS3/P00	8007797	11.43
WKP3-1,5-SP3/S90	8022676	11.63	WKP3-5-WAS3/S366	8023885	11.43
WKP3-1,5-SP3/XOR	8022683	11.63	WKP3-5-WAS3/S74	8007800	11.43
WKP3-1,5-WAS3/P00	8007809	11.43	WKP3-5-WAS3/S77/S398	8023892	11.43
WKP3-1,5-WAS3/S366	8023883	11.43	WKP3-5-WAS3/S90	8007798	11.43
WKP3-1,5-WAS3/S74	8007812	11.43	WKP3-5-WAS3/XOR	8007799	11.43
WKP3-1,5-WAS3/S77/S398	8023890	11.43	WKP3P2-0,3-SP3/P00	8025371	11.69
WKP3-1,5-WAS3/S90	8007810	11.43	WKP3P2-0,3-SP3/S366	8025399	11.69
WKP3-1,5-WAS3/XOR	8007811	11.43	WKP3P2-0,3-SP3/S74	8025392	11.69
WKP3-10/P00	8007321	5.9	WKP3P2-0,3-SP3/S77/S398	8025406	11.69
WKP3-10/S366	8023431	5.9	WKP3P2-0,3-SP3/S90	8025378	11.69
WKP3-10/S74	8007324	5.9	WKP3P2-0,3-SP3/XOR	8025385	11.69
WKP3-10/S77/S398	8023434	5.9	WKP3P2-0,3-WAS3/P00	8023748	11.49
WKP3-10/S90	8007322	5.9	WKP3P2-0,3-WAS3/S366	8023967	11.49
WKP3-10/XOR	8007323	5.9	WKP3P2-0,3-WAS3/S74	8023763	11.49
WKP3-1-SP3/P00	8022669	11.63	WKP3P2-0,3-WAS3/S77/S398	8023974	11.49
WKP3-1-SP3/S366	8022722	11.63	WKP3P2-0,3-WAS3/S90	8014006	11.49
WKP3-1-SP3/S74	8022689	11.63	WKP3P2-0,3-WAS3/XOR	8023757	11.49
WKP3-1-SP3/S77/S398	8024100	11.63	WKP3P2-0,6-SP3/P00	8025372	11.69
WKP3-1-SP3/S90	8022675	11.63	WKP3P2-0,6-SP3/S366	8025400	11.69
WKP3-1-SP3/XOR	8022682	11.63	WKP3P2-0,6-SP3/S74	8025393	11.69
WKP3-1-WAS3/P00	8007790	11.43	WKP3P2-0,6-SP3/S77/S398	8025407	11.69
WKP3-1-WAS3/S366	8023882	11.43	WKP3P2-0,6-SP3/S90	8025379	11.69
WKP3-1-WAS3/S74	8023729	11.43	WKP3P2-0,6-SP3/XOR	8025386	11.69
WKP3-1-WAS3/S77/S398	8023889	11.43	WKP3P2-0,6-WAS3/P00	8023749	11.49
WKP3-1-WAS3/S90	8007791	11.43	WKP3P2-0,6-WAS3/S366	8023968	11.49
WKP3-1-WAS3/XOR	8007792	11.43	WKP3P2-0,6-WAS3/S74	8013441	11.49
WKP3-2/P00	8007313	5.9	WKP3P2-0,6-WAS3/S77/S398	8023975	11.49
WKP3-2/S366	8023429	5.9	WKP3P2-0,6-WAS3/S90	8014007	11.49
WKP3-2/S74	8007316	5.9	WKP3P2-0,6-WAS3/XOR	8017552	11.49
WKP3-2/S77/S398	8023432	5.9	WKP3P2-1,5-SP3/P00	8025374	11.69
WKP3-2/S90	8007314	5.9	WKP3P2-1,5-SP3/S366	8025402	11.69
WKP3-2/XOR	8007315	5.9	WKP3P2-1,5-SP3/S74	8025395	11.69
WKP3-2-SP3/P00	8022671	11.63	WKP3P2-1,5-SP3/S77/S398	8025409	11.69
WKP3-2-SP3/S366	8022724	11.63	WKP3P2-1,5-SP3/S90	8025381	11.69
WKP3-2-SP3/S74	8022691	11.63	WKP3P2-1,5-SP3/XOR	8025388	11.69
WKP3-2-SP3/S77/S398	8024102	11.63	WKP3P2-1,5-WAS3/P00	8023751	11.49
WKP3-2-SP3/S90	8022677	11.63	WKP3P2-1,5-WAS3/S366	8023970	11.49
WKP3-2-SP3/XOR	8022684	11.63	WKP3P2-1,5-WAS3/S74	8022013	11.49
WKP3-2-WAS3/P00	8007793	11.43	WKP3P2-1,5-WAS3/S77/S398	8023977	11.49
WKP3-2-WAS3/S366	8023884	11.43	WKP3P2-1,5-WAS3/S90	8014313	11.49
WKP3-2-WAS3/S74	8007796	11.43	WKP3P2-1,5-WAS3/XOR	8023759	11.49
WKP3-2-WAS3/S77/S398	8023891	11.43	WKP3P2-10/P00	8010347	5.13
WKP3-2-WAS3/S90	8007794	11.43	WKP3P2-10/S366	8023462	5.13
WKP3-2-WAS3/XOR	8007795	11.43	WKP3P2-10/S74	8010350	5.13
WKP3-5/P00	8007317	5.9	WKP3P2-10/S77/S398	8023465	5.13
WKP3-5/S366	8023430	5.9	WKP3P2-10/S90	8010348	5.13
WKP3-5/S74	8007320	5.9	WKP3P2-10/XOR	8010349	5.13
WKP3-5/S77/S398	8023433	5.9	WKP3P2-1-SP3/P00	8025373	11.69
WKP3-5/S90	8007318	5.9	WKP3P2-1-SP3/S366	8025401	11.69
WKP3-5/XOR	8007319	5.9	WKP3P2-1-SP3/S74	8025394	11.69
WKP3-5-SP3/P00	8022672	11.63	WKP3P2-1-SP3/S77/S398	8025408	11.69
WKP3-5-SP3/S366	8022725	11.63	WKP3P2-1-SP3/S90	8025380	11.69
WKP3-5-SP3/S74	8022692	11.63	WKP3P2-1-SP3/XOR	8025387	11.69
WKP3-5-SP3/S77/S398	8024103	11.63	WKP3P2-1-WAS3/P00	8023750	11.49
WKP3-5-SP3/S90	8022678	11.63	WKP3P2-1-WAS3/S366	8023969	11.49
WKP3-5-SP3/XOR	8022685	11.63	WKP3P2-1-WAS3/S74	8022012	11.49

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WKP3P2-1-WAS3/S77/S398	8023976	11.49	WKP4-0,6-WAS4/S90	8007822	11.44
WKP3P2-1-WAS3/S90	8014008	11.49	WKP4-0,6-WAS4/XOR	8009525	11.44
WKP3P2-1-WAS3/XOR	8023758	11.49	WKP4-1,5-SP4/P00	8023641	11.64
WKP3P2-2/P00	8010339	5.13	WKP4-1,5-SP4/S77/S366	8024108	11.64
WKP3P2-2/S366	8023460	5.13	WKP4-1,5-SP4/S77/S398	8024115	11.64
WKP3P2-2/S74	8010342	5.13	WKP4-1,5-SP4/S90	8023648	11.64
WKP3P2-2/S77/S398	8023463	5.13	WKP4-1,5-SP4/XOR	8023655	11.64
WKP3P2-2/S90	8010340	5.13	WKP4-1,5-WAS4/P00	8007823	11.44
WKP3P2-2/XOR	8010341	5.13	WKP4-1,5-WAS4/S77/S366	8023897	11.44
WKP3P2-2-SP3/P00	8025375	11.69	WKP4-1,5-WAS4/S77/S398	8023904	11.44
WKP3P2-2-SP3/S366	8025403	11.69	WKP4-1,5-WAS4/S90	8007824	11.44
WKP3P2-2-SP3/S74	8025396	11.69	WKP4-1,5-WAS4/XOR	8009526	11.44
WKP3P2-2-SP3/S77/S398	8025410	11.69	WKP4-10/P00	8007329	5.9
WKP3P2-2-SP3/S90	8025382	11.69	WKP4-10/S77/S366	8023437	5.9
WKP3P2-2-SP3/XOR	8025389	11.69	WKP4-10/S77/S398	8023440	5.9
WKP3P2-2-WAS3/P00	8023752	11.49	WKP4-10/S90	8007330	5.9
WKP3P2-2-WAS3/S366	8023971	11.49	WKP4-10/XOR	8009419	5.9
WKP3P2-2-WAS3/S74	8015312	11.49	WKP4-1-SP4/P00	8023640	11.64
WKP3P2-2-WAS3/S77/S398	8023978	11.49	WKP4-1-SP4/S77/S366	8024107	11.64
WKP3P2-2-WAS3/S90	8015396	11.49	WKP4-1-SP4/S77/S398	8024114	11.64
WKP3P2-2-WAS3/XOR	8023760	11.49	WKP4-1-SP4/S90	8023647	11.64
WKP3P2-5/P00	8010343	5.13	WKP4-1-SP4/XOR	8023654	11.64
WKP3P2-5/S366	8023461	5.13	WKP4-1-WAS4/P00	8007813	11.44
WKP3P2-5/S74	8010346	5.13	WKP4-1-WAS4/S77/S366	8023896	11.44
WKP3P2-5/S77/S398	8023464	5.13	WKP4-1-WAS4/S77/S398	8023903	11.44
WKP3P2-5/S90	8010344	5.13	WKP4-1-WAS4/S90	8007814	11.44
WKP3P2-5/XOR	8010345	5.13	WKP4-1-WAS4/XOR	8009521	11.44
WKP3P2-5-SP3/P00	8025376	11.69	WKP4-2/P00	8007325	5.9
WKP3P2-5-SP3/S366	8025404	11.69	WKP4-2/S77/S366	8023435	5.9
WKP3P2-5-SP3/S74	8025397	11.69	WKP4-2/S77/S398	8023438	5.9
WKP3P2-5-SP3/S77/S398	8025411	11.69	WKP4-2/S90	8007326	5.9
WKP3P2-5-SP3/S90	8025383	11.69	WKP4-2/XOR	8009417	5.9
WKP3P2-5-SP3/XOR	8025390	11.69	WKP4-2-SP4/P00	8023642	11.64
WKP3P2-5-WAS3/P00	8023753	11.49	WKP4-2-SP4/S77/S366	8024109	11.64
WKP3P2-5-WAS3/S366	8023972	11.49	WKP4-2-SP4/S77/S398	8024116	11.64
WKP3P2-5-WAS3/S74	8023764	11.49	WKP4-2-SP4/S90	8023649	11.64
WKP3P2-5-WAS3/S77/S398	8023979	11.49	WKP4-2-SP4/XOR	8023656	11.64
WKP3P2-5-WAS3/S90	8023755	11.49	WKP4-2-WAS4/P00	8007815	11.44
WKP3P2-5-WAS3/XOR	8023761	11.49	WKP4-2-WAS4/S77/S366	8023898	11.44
WKP4-0,3-SP4/P00	8023638	11.64	WKP4-2-WAS4/S77/S398	8023905	11.44
WKP4-0,3-SP4/S77/S366	8024105	11.64	WKP4-2-WAS4/S90	8007816	11.44
WKP4-0,3-SP4/S77/S398	8024112	11.64	WKP4-2-WAS4/XOR	8009522	11.44
WKP4-0,3-SP4/S90	8023645	11.64	WKP4-5/P00	8007327	5.9
WKP4-0,3-SP4/XOR	8023652	11.64	WKP4-5/S77/S366	8023436	5.9
WKP4-0,3-WAS4/P00	8007819	11.44	WKP4-5/S77/S398	8023439	5.9
WKP4-0,3-WAS4/S77/S366	8023894	11.44	WKP4-5/S90	8007328	5.9
WKP4-0,3-WAS4/S77/S398	8023901	11.44	WKP4-5/XOR	8009418	5.9
WKP4-0,3-WAS4/S90	8007820	11.44	WKP4-5-SP4/P00	8023643	11.64
WKP4-0,3-WAS4/XOR	8009524	11.44	WKP4-5-SP4/S77/S366	8024110	11.64
WKP4-0,6-SP4/P00	8023639	11.64	WKP4-5-SP4/S77/S398	8024117	11.64
WKP4-0,6-SP4/S77/S366	8024106	11.64	WKP4-5-SP4/S90	8023650	11.64
WKP4-0,6-SP4/S77/S398	8024113	11.64	WKP4-5-SP4/XOR	8023657	11.64
WKP4-0,6-SP4/S90	8023646	11.64	WKP4-5-WAS4/P00	8007817	11.44
WKP4-0,6-SP4/XOR	8023653	11.64	WKP4-5-WAS4/S77/S366	8023899	11.44
WKP4-0,6-WAS4/P00	8007821	11.44	WKP4-5-WAS4/S77/S398	8023906	11.44
WKP4-0,6-WAS4/S77/S366	8023895	11.44	WKP4-5-WAS4/S90	8007818	11.44
WKP4-0,6-WAS4/S77/S398	8023902	11.44	WKP4-5-WAS4/XOR	8009523	11.44

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WKP4P2-0,3-SP4/P00	8025413	11.70	WKP4P2-2-WAS4/S77/S398	8024010	11.50
WKP4P2-0,3-SP4/S77/S366	8025434	11.70	WKP4P2-2-WAS4/S90	8017086	11.50
WKP4P2-0,3-SP4/S77/S398	8025441	11.70	WKP4P2-2-WAS4/XOR	8023996	11.50
WKP4P2-0,3-SP4/S90	8025420	11.70	WKP4P2-5/P00	8010354	5.13
WKP4P2-0,3-SP4/XOR	8025427	11.70	WKP4P2-5/S77/S366	8023467	5.13
WKP4P2-0,3-WAS4/P00	8023981	11.50	WKP4P2-5/S77/S398	8023470	5.13
WKP4P2-0,3-WAS4/S77/S366	8023999	11.50	WKP4P2-5/S90	8010355	5.13
WKP4P2-0,3-WAS4/S77/S398	8024006	11.50	WKP4P2-5/XOR	8010356	5.13
WKP4P2-0,3-WAS4/S90	8023988	11.50	WKP4P2-5-SP4/P00	8025418	11.70
WKP4P2-0,3-WAS4/XOR	8023992	11.50	WKP4P2-5-SP4/S77/S366	8025439	11.70
WKP4P2-0,6-SP4/P00	8025414	11.70	WKP4P2-5-SP4/S77/S398	8025446	11.70
WKP4P2-0,6-SP4/S77/S366	8025435	11.70	WKP4P2-5-SP4/S90	8025425	11.70
WKP4P2-0,6-SP4/S77/S398	8025442	11.70	WKP4P2-5-SP4/XOR	8025432	11.70
WKP4P2-0,6-SP4/S90	8025421	11.70	WKP4P2-5-WAS4/P00	8023986	11.50
WKP4P2-0,6-SP4/XOR	8025428	11.70	WKP4P2-5-WAS4/S77/S366	8024004	11.50
WKP4P2-0,6-WAS4/P00	8023982	11.50	WKP4P2-5-WAS4/S77/S398	8024011	11.50
WKP4P2-0,6-WAS4/S77/S366	8024000	11.50	WKP4P2-5-WAS4/S90	8023990	11.50
WKP4P2-0,6-WAS4/S77/S398	8024007	11.50	WKP4P2-5-WAS4/XOR	8023997	11.50
WKP4P2-0,6-WAS4/S90	8023989	11.50	WMKA14C	8017607	6.5
WKP4P2-0,6-WAS4/XOR	8023993	11.50	WMKAU14.001-10/S1117	8019443	6.3
WKP4P2-1,5-SP4/P00	8025416	11.70	WMKAU14.001-10/S1118	8019445	6.3
WKP4P2-1,5-SP4/S77/S366	8025437	11.70	WMKAU14.001-2/S1117	8019431	6.3
WKP4P2-1,5-SP4/S77/S398	8025444	11.70	WMKAU14.001-2/S1118	8018508	6.3
WKP4P2-1,5-SP4/S90	8025423	11.70	WMKAU14.001-5/S1117	8019432	6.3
WKP4P2-1,5-SP4/XOR	8025430	11.70	WMKAU14.001-5/S1118	8019444	6.3
WKP4P2-1,5-WAS4/P00	8023984	11.50	WMKAU14.003-10/S1117	8027232	6.3
WKP4P2-1,5-WAS4/S77/S366	8024002	11.50	WMKAU14.003-10/S1118	8027234	6.3
WKP4P2-1,5-WAS4/S77/S398	8024009	11.50	WMKAU14.003-2/S1117	8026802	6.3
WKP4P2-1,5-WAS4/S90	8022587	11.50	WMKAU14.003-2/S1118	8026801	6.3
WKP4P2-1,5-WAS4/XOR	8023995	11.50	WMKAU14.003-5/S1117	8027231	6.3
WKP4P2-10/P00	8010357	5.13	WMKAU14.003-5/S1118	8027233	6.3
WKP4P2-10/S77/S366	8023468	5.13	WMKAU19.001-10/S1118	8027238	6.4
WKP4P2-10/S77/S398	8023471	5.13	WMKAU19.001-2/S1117	8022166	6.4
WKP4P2-10/S90	8010358	5.13	WMKAU19.001-2/S1118	8022167	6.4
WKP4P2-10/XOR	8010359	5.13	WMKAU19.001-5/S1117	8027235	6.4
WKP4P2-1-SP4/P00	8025415	11.70	WMKAU19.001-5/S1118	8027237	6.4
WKP4P2-1-SP4/S77/S366	8025436	11.70	WMKAU19001-10/S1117	8027236	6.4
WKP4P2-1-SP4/S77/S398	8025443	11.70	WMKC12C	8017156	7.15
WKP4P2-1-SP4/S90	8025422	11.70	WMKC12L	8017153	7.13
WKP4P2-1-SP4/XOR	8025429	11.70	WMKC16C	8017155	7.15
WKP4P2-1-WAS4/P00	8023983	11.50	WMKC16L	8017152	7.13
WKP4P2-1-WAS4/S77/S366	8024001	11.50	WMKC19C	8017154	7.16
WKP4P2-1-WAS4/S77/S398	8024008	11.50	WMKC19L	8017151	7.14
WKP4P2-1-WAS4/S90	8015589	11.50	WMKCU12.001-10/S366	8026044	7.9
WKP4P2-1-WAS4/XOR	8023994	11.50	WMKCU12.001-15/S366	8026045	7.9
WKP4P2-2/P00	8010351	5.13	WMKCU12.001-5/S366	8026043	7.9
WKP4P2-2/S77/S366	8023466	5.13	WMKCU12.003-10/S366	8026050	7.11
WKP4P2-2/S77/S398	8023469	5.13	WMKCU12.003-15/S366	8026051	7.11
WKP4P2-2/S90	8010352	5.13	WMKCU12.003-5/S366	8026049	7.11
WKP4P2-2/XOR	8010353	5.13	WMKCU19.001-10/S366	8026047	7.10
WKP4P2-2-SP4/P00	8025417	11.70	WMKCU19.001-15/S366	8026048	7.10
WKP4P2-2-SP4/S77/S366	8025438	11.70	WMKCU19.001-5/S366	8026046	7.10
WKP4P2-2-SP4/S77/S398	8025445	11.70	WMKCU19.003-10/S366	8017112	7.12
WKP4P2-2-SP4/S90	8025424	11.70	WMKCU19.003-15/S366	8017113	7.12
WKP4P2-2-SP4/XOR	8025431	11.70	WMKCU19.003-5/S366	8017111	7.12
WKP4P2-2-WAS4/P00	8023985	11.50	WSKPC3L	8017351	5.16
WKP4P2-2-WAS4/S77/S366	8024003	11.50	WSKPC4L	8017364	5.16

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WSP3-10/P00	8018645	5.24	WWAK3-0,3-WWAS3/S90	8006921	11.17
WSP3-10/S366	8022201	5.24	WWAK3-0,3-WWAS3/XOR	8006922	11.17
WSP3-10/S74	8022198	5.24	WWAK3-0,6-WAS3/P00	8006823	11.9
WSP3-10/S77/S398	8023498	5.24	WWAK3-0,6-WAS3/S366	8022909	11.9
WSP3-10/S90	8022190	5.24	WWAK3-0,6-WAS3/S398	8022916	11.9
WSP3-10/XOR	8022194	5.24	WWAK3-0,6-WAS3/S74	8006827	11.9
WSP3-2/P00	8017715	5.24	WWAK3-0,6-WAS3/S90	8006824	11.9
WSP3-2/S366	8022199	5.24	WWAK3-0,6-WAS3/XOR	8006825	11.9
WSP3-2/S74	8022196	5.24	WWAK3-0,6-WWAS3/P00	8006925	11.17
WSP3-2/S77/S398	8023496	5.24	WWAK3-0,6-WWAS3/S366	8022952	11.17
WSP3-2/S90	8022188	5.24	WWAK3-0,6-WWAS3/S398	8022959	11.17
WSP3-2/XOR	8022192	5.24	WWAK3-0,6-WWAS3/S74	8006929	11.17
WSP3-5/P00	8022187	5.24	WWAK3-0,6-WWAS3/S90	8006926	11.17
WSP3-5/S366	8022200	5.24	WWAK3-0,6-WWAS3/XOR	8006927	11.17
WSP3-5/S74	8022197	5.24	WWAK3-1,5-WAS3/P00	8006828	11.9
WSP3-5/S77/S398	8023497	5.24	WWAK3-1,5-WAS3/S366	8022911	11.9
WSP3-5/S90	8022189	5.24	WWAK3-1,5-WAS3/S398	8021883	11.9
WSP3-5/XOR	8022193	5.24	WWAK3-1,5-WAS3/S74	8006832	11.9
WSP4-10/P00	8022204	5.24	WWAK3-1,5-WAS3/S90	8006829	11.9
WSP4-10/S77/S366	8023792	5.24	WWAK3-1,5-WAS3/XOR	8006830	11.9
WSP4-10/S77/S398	8023795	5.24	WWAK3-1,5-WWAS3/P00	8006930	11.17
WSP4-10/S90	8022207	5.24	WWAK3-1,5-WWAS3/S366	8022954	11.17
WSP4-10/XOR	8022210	5.24	WWAK3-1,5-WWAS3/S398	8022960	11.17
WSP4-2/P00	8022202	5.24	WWAK3-1,5-WWAS3/S74	8006934	11.17
WSP4-2/S77/S366	8023790	5.24	WWAK3-1,5-WWAS3/S90	8006931	11.17
WSP4-2/S77/S398	8023793	5.24	WWAK3-1,5-WWAS3/XOR	8006932	11.17
WSP4-2/S90	8022205	5.24	WWAK3-10/P00	8007143	2.17
WSP4-2/XOR	8022208	5.24	WWAK3-10/S2429/S2430	8039225	8.7
WSP4-5/P00	8022203	5.24	WWAK3-10/S366	8020000	2.17
WSP4-5/S77/S366	8023791	5.24	WWAK3-10/S398	8016481	2.17
WSP4-5/S77/S398	8023794	5.24	WWAK3-10/S74	8007147	2.17
WSP4-5/S90	8022206	5.24	WWAK3-10/S90	8007144	2.17
WSP4-5/XOR	8022209	5.24	WWAK3-10/XOR	8007145	2.17
WSSPC-3L	8017365	5.27	WWAK3-10-WWAS3/S2429/S2430	8039960	8.29
WSSPC4L	8017366	5.27	WWAK3-1-WAS3/P00	8006803	11.9
WWAK12-10/P00	8027602	2.20	WWAK3-1-WAS3/S366	8022910	11.9
WWAK12-10/S2429/S2430	8039942	8.9	WWAK3-1-WAS3/S398	8020999	11.9
WWAK12-10/S366	8027605	2.20	WWAK3-1-WAS3/S74	8006807	11.9
WWAK12-10-WWAS12/S2429/S2430	8039971	8.33	WWAK3-1-WAS3/S90	8006804	11.9
WWAK12-2/P00	8027600	2.20	WWAK3-1-WAS3/XOR	8006805	11.9
WWAK12-2/S2429/S2430	8039940	8.9	WWAK3-1-WWAS3/P00	8006905	11.17
WWAK12-2/S366	8027603	2.20	WWAK3-1-WWAS3/S366	8022953	11.17
WWAK12-2-WWAS12/S2429/S2430	8039969	8.33	WWAK3-1-WWAS3/S398	8020981	11.17
WWAK12-5/P00	8027601	2.20	WWAK3-1-WWAS3/S74	8006909	11.17
WWAK12-5/S2429/S2430	8039941	8.9	WWAK3-1-WWAS3/S90	8006906	11.17
WWAK12-5/S366	8027604	2.20	WWAK3-1-WWAS3/XOR	8006907	11.17
WWAK12-5-WWAS12/S2429/S2430	8039970	8.33	WWAK3-2/P00	8007133	2.17
WWAK3-0,3-WAS3/P00	8006818	11.9	WWAK3-2/S2429/S2430	8039224	8.7
WWAK3-0,3-WAS3/S366	8022908	11.9	WWAK3-2/S366	8019998	2.17
WWAK3-0,3-WAS3/S398	8022915	11.9	WWAK3-2/S398	8014314	2.17
WWAK3-0,3-WAS3/S74	8006822	11.9	WWAK3-2/S74	8007137	2.17
WWAK3-0,3-WAS3/S90	8006819	11.9	WWAK3-2/S90	8007134	2.17
WWAK3-0,3-WAS3/XOR	8006820	11.9	WWAK3-2/XOR	8007135	2.17
WWAK3-0,3-WWAS3/P00	8006920	11.17	WWAK3-2-WAS3/P00	8006808	11.9
WWAK3-0,3-WWAS3/S366	8022951	11.17	WWAK3-2-WAS3/S366	8022912	11.9
WWAK3-0,3-WWAS3/S398	8022958	11.17	WWAK3-2-WAS3/S398	8022917	11.9
WWAK3-0,3-WWAS3/S74	8006924	11.17	WWAK3-2-WAS3/S74	8006812	11.9

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WWAK3-2-WAS3/XOR	8006810	11.9	WWAK3P2-1,5-WAS3/XOR	8009348	11.25
WWAK3-2-WWAS3/P00	8006910	11.17	WWAK3P2-1,5-WWAS3/P00	8012899	11.27
WWAK3-2-WWAS3/S2429/S2430	8039958	8.29	WWAK3P2-1,5-WWAS3/S366	8023004	11.27
WWAK3-2-WWAS3/S366	8022955	11.17	WWAK3P2-1,5-WWAS3/S398	8017914	11.27
WWAK3-2-WWAS3/S398	8020982	11.17	WWAK3P2-1,5-WWAS3/S74	8012915	11.27
WWAK3-2-WWAS3/S74	8006914	11.17	WWAK3P2-1,5-WWAS3/S90	8012904	11.27
WWAK3-2-WWAS3/S90	8006911	11.17	WWAK3P2-1,5-WWAS3/XOR	8012909	11.27
WWAK3-2-WWAS3/XOR	8006912	11.17	WWAK3P2-10/P00	8009242	2.21
WWAK3-5/P00	8007138	2.17	WWAK3P2-10/S366	8020014	2.21
WWAK3-5/S2429/S2430	8036088	8.7	WWAK3P2-10/S398	8010227	2.21
WWAK3-5/S366	8019999	2.17	WWAK3P2-10/S74	8009245	2.21
WWAK3-5/S398	8019202	2.17	WWAK3P2-10/S90	8009243	2.21
WWAK3-5/S74	8007142	2.17	WWAK3P2-10/XOR	8009244	2.21
WWAK3-5/S90	8007139	2.17	WWAK3P2-1-WAS3/P00	8010248	11.25
WWAK3-5/XOR	8007140	2.17	WWAK3P2-1-WAS3/S366	8022979	11.25
WWAK3-5-WAS3/P00	8006813	11.9	WWAK3P2-1-WAS3/S398	8010250	11.25
WWAK3-5-WAS3/S366	8022913	11.9	WWAK3P2-1-WAS3/S74	8009333	11.25
WWAK3-5-WAS3/S398	8022918	11.9	WWAK3P2-1-WAS3/S90	8009331	11.25
WWAK3-5-WAS3/S74	8006817	11.9	WWAK3P2-1-WAS3/XOR	8009332	11.25
WWAK3-5-WAS3/S90	8006814	11.9	WWAK3P2-1-WWAS3/P00	8012898	11.27
WWAK3-5-WAS3/XOR	8006815	11.9	WWAK3P2-1-WWAS3/S366	8023003	11.27
WWAK3-5-WWAS3/P00	8006915	11.17	WWAK3P2-1-WWAS3/S398	8017913	11.27
WWAK3-5-WWAS3/S2429/S2430	8039959	8.29	WWAK3P2-1-WWAS3/S74	8012914	11.27
WWAK3-5-WWAS3/S366	8022956	11.17	WWAK3P2-1-WWAS3/S90	8012425	11.27
WWAK3-5-WWAS3/S398	8020984	11.17	WWAK3P2-1-WWAS3/XOR	8012908	11.27
WWAK3-5-WWAS3/S74	8006919	11.17	WWAK3P2-2/P00	8010213	2.21
WWAK3-5-WWAS3/S90	8006916	11.17	WWAK3P2-2/S366	8020012	2.21
WWAK3-5-WWAS3/XOR	8006917	11.17	WWAK3P2-2/S398	8010217	2.21
WWAK3P2-0,3-WAS3/P00	8010259	11.25	WWAK3P2-2/S74	8010218	2.21
WWAK3P2-0,3-WAS3/S366	8022977	11.25	WWAK3P2-2/S90	8010214	2.21
WWAK3P2-0,3-WAS3/S398	8010262	11.25	WWAK3P2-2/XOR	8010215	2.21
WWAK3P2-0,3-WAS3/S74	8010263	11.25	WWAK3P2-2-WAS3/74	8009336	11.25
WWAK3P2-0,3-WAS3/S90	8009341	11.25	WWAK3P2-2-WAS3/P00	8020251	11.25
WWAK3P2-0,3-WAS3/XOR	8010260	11.25	WWAK3P2-2-WAS3/S366	8022981	11.25
WWAK3P2-0,3-WWAS3/P00	8012896	11.27	WWAK3P2-2-WAS3/S398	8010253	11.25
WWAK3P2-0,3-WWAS3/S366	8023001	11.27	WWAK3P2-2-WAS3/S90	8009334	11.25
WWAK3P2-0,3-WWAS3/S398	8023008	11.27	WWAK3P2-2-WAS3/XOR	8009335	11.25
WWAK3P2-0,3-WWAS3/S74	8012912	11.27	WWAK3P2-2-WWAS3/P00	8012900	11.27
WWAK3P2-0,3-WWAS3/S90	8012902	11.27	WWAK3P2-2-WWAS3/S366	8023005	11.27
WWAK3P2-0,3-WWAS3/XOR	8012906	11.27	WWAK3P2-2-WWAS3/S398	8017915	11.27
WWAK3P2-0,6-WAS3/74	8009346	11.25	WWAK3P2-2-WWAS3/S74	8009360	11.27
WWAK3P2-0,6-WAS3/P00	8010264	11.25	WWAK3P2-2-WWAS3/S90	8012419	11.27
WWAK3P2-0,6-WAS3/S366	8022978	11.25	WWAK3P2-2-WWAS3/XOR	8012910	11.27
WWAK3P2-0,6-WAS3/S398	8010266	11.25	WWAK3P2-5/P00	8009238	2.21
WWAK3P2-0,6-WAS3/S90	8009343	11.25	WWAK3P2-5/S366	8020013	2.21
WWAK3P2-0,6-WAS3/XOR	8009344	11.25	WWAK3P2-5/S398	8010222	2.21
WWAK3P2-0,6-WWAS3/P00	8012897	11.27	WWAK3P2-5/S74	8009241	2.21
WWAK3P2-0,6-WWAS3/S366	8023002	11.27	WWAK3P2-5/S90	8009239	2.21
WWAK3P2-0,6-WWAS3/S398	8017912	11.27	WWAK3P2-5/XOR	8009240	2.21
WWAK3P2-0,6-WWAS3/S74	8012913	11.27	WWAK3P2-5-WAS3/74	8009340	11.25
WWAK3P2-0,6-WWAS3/S90	8012903	11.27	WWAK3P2-5-WAS3/P00	8010256	11.25
WWAK3P2-0,6-WWAS3/XOR	8012907	11.27	WWAK3P2-5-WAS3/S366	8022982	11.25
WWAK3P2-1,5-WAS3/P00	8010267	11.25	WWAK3P2-5-WAS3/S398	8010258	11.25
WWAK3P2-1,5-WAS3/S366	8022980	11.25	WWAK3P2-5-WAS3/S90	8009338	11.25
WWAK3P2-1,5-WAS3/S398	8010269	11.25	WWAK3P2-5-WAS3/XOR	8009339	11.25
WWAK3P2-1,5-WAS3/S74	8009350	11.25	WWAK3P2-5-WWAS3/P00	8012901	11.27

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WWAK3P2-5-WWAS3/S398	8017916	11.27	WWAK4-1-WAS4/S74	8006839	11.10
WWAK3P2-5-WWAS3/S74	8012916	11.27	WWAK4-1-WAS4/S90	8006834	11.10
WWAK3P2-5-WWAS3/S90	8017068	11.27	WWAK4-1-WAS4/XOR	8006835	11.10
WWAK3P2-5-WWAS3/XOR	8012911	11.27	WWAK4-1-WWAS4/P00	8006935	11.18
WWAK4.5-10/S2429/S2430	8039228	8.8	WWAK4-1-WWAS4/S366	8022964	11.18
WWAK4.5-10-WWAS4.5/S2429/S2430	8039965	8.31	WWAK4-1-WWAS4/S398	8017866	11.18
WWAK4.5-2/S2429/S2430	8039227	8.8	WWAK4-1-WWAS4/S74	8006941	11.18
WWAK4.5-2-WWAS4.5/S2429/S2430	8039963	8.31	WWAK4-1-WWAS4/S90	8006936	11.18
WWAK4.5-5/S2429/S2430	8036090	8.8	WWAK4-1-WWAS4/XOR	8006937	11.18
WWAK4.5-5-WWAS4.5/S2429/S2430	8039964	8.31	WWAK4-2/P00	8007148	2.17
WWAK4-0,3-WAS4/P00	8006854	11.10	WWAK4-2/S2429/S2430	8039226	8.7
WWAK4-0,3-WAS4/S366	8022920	11.10	WWAK4-2/S366	8020001	2.17
WWAK4-0,3-WAS4/S398	8017703	11.10	WWAK4-2/S398	8019398	2.17
WWAK4-0,3-WAS4/S74	8006860	11.10	WWAK4-2/S74	8007154	2.17
WWAK4-0,3-WAS4/S90	8006855	11.10	WWAK4-2/S90	8007149	2.17
WWAK4-0,3-WAS4/XOR	8006856	11.10	WWAK4-2/XOR	8007150	2.17
WWAK4-0,3-WWAS4/P00	8006956	11.18	WWAK4-2-WAS4/P00	8006840	11.10
WWAK4-0,3-WWAS4/S366	8022962	11.18	WWAK4-2-WAS4/S366	8022924	11.10
WWAK4-0,3-WWAS4/S398	8017704	11.18	WWAK4-2-WAS4/S398	8017318	11.10
WWAK4-0,3-WWAS4/S74	8006962	11.18	WWAK4-2-WAS4/S74	8006846	11.10
WWAK4-0,3-WWAS4/S90	8006957	11.18	WWAK4-2-WAS4/S90	8006841	11.10
WWAK4-0,3-WWAS4/XOR	8006958	11.18	WWAK4-2-WAS4/XOR	8006842	11.10
WWAK4-0,6-WAS4/P00	8006861	11.10	WWAK4-2-WWAS4/P00	8006942	11.18
WWAK4-0,6-WAS4/S366	8022921	11.10	WWAK4-2-WWAS4/S2429/S2430	8039961	8.30
WWAK4-0,6-WAS4/S398	8017315	11.10	WWAK4-2-WWAS4/S366	8022966	11.18
WWAK4-0,6-WAS4/S74	8006867	11.10	WWAK4-2-WWAS4/S398	8017868	11.18
WWAK4-0,6-WAS4/S90	8006862	11.10	WWAK4-2-WWAS4/S74	8006948	11.18
WWAK4-0,6-WAS4/XOR	8006863	11.10	WWAK4-2-WWAS4/S90	8006943	11.18
WWAK4-0,6-WWAS4/P00	8006963	11.18	WWAK4-2-WWAS4/XOR	8006944	11.18
WWAK4-0,6-WWAS4/S366	8022963	11.18	WWAK4-5/P00	8007155	2.17
WWAK4-0,6-WWAS4/S398	8017707	11.18	WWAK4-5/S2429/S2430	8036089	8.7
WWAK4-0,6-WWAS4/S74	8006969	11.18	WWAK4-5/S366	8020002	2.17
WWAK4-0,6-WWAS4/S90	8006964	11.18	WWAK4-5/S398	8019400	2.17
WWAK4-0,6-WWAS4/XOR	8006965	11.18	WWAK4-5/S74	8007161	2.17
WWAK4-1,5-WAS4/P00	8006868	11.10	WWAK4-5/S90	8007156	2.17
WWAK4-1,5-WAS4/S366	8022923	11.10	WWAK4-5/XOR	8007157	2.17
WWAK4-1,5-WAS4/S398	8017317	11.10	WWAK4-5-WAS4/P00	8006847	11.10
WWAK4-1,5-WAS4/S74	8006874	11.10	WWAK4-5-WAS4/S366	8022925	11.10
WWAK4-1,5-WAS4/S90	8006869	11.10	WWAK4-5-WAS4/S398	8017528	11.10
WWAK4-1,5-WAS4/XOR	8006870	11.10	WWAK4-5-WAS4/S74	8006853	11.10
WWAK4-1,5-WWAS4/P00	8006970	11.18	WWAK4-5-WAS4/S90	8006848	11.10
WWAK4-1,5-WWAS4/S366	8022965	11.18	WWAK4-5-WAS4/XOR	8006849	11.10
WWAK4-1,5-WWAS4/S398	8017867	11.18	WWAK4-5-WWAS4/P00	8006949	11.18
WWAK4-1,5-WWAS4/S74	8006976	11.18	WWAK4-5-WWAS4/S2429/S2430	8039137	8.30
WWAK4-1,5-WWAS4/S90	8006971	11.18	WWAK4-5-WWAS4/S366	8022967	11.18
WWAK4-1,5-WWAS4/XOR	8006972	11.18	WWAK4-5-WWAS4/S398	8017869	11.18
WWAK4-10/P00	8007162	2.17	WWAK4-5-WWAS4/S74	8006955	11.18
WWAK4-10/S2429/S2430	8037214	8.7	WWAK4-5-WWAS4/S90	8006950	11.18
WWAK4-10/S366	8020003	2.17	WWAK4-5-WWAS4/XOR	8006951	11.18
WWAK4-10/S398	8018042	2.17	WWAK4P2-0,3-WAS4/P00	8011593	11.26
WWAK4-10/S74	8007168	2.17	WWAK4P2-0,3-WAS4/S366	8022984	11.26
WWAK4-10/S90	8007163	2.17	WWAK4P2-0,3-WAS4/S398	8018910	11.26
WWAK4-10/XOR	8007164	2.17	WWAK4P2-0,3-WAS4/S74	8011599	11.26
WWAK4-10-WWAS4/S2429/S2430	8039962	8.30	WWAK4P2-0,3-WAS4/S90	8011594	11.26
WWAK4-1-WAS4/P00	8006833	11.10	WWAK4P2-0,3-WAS4/XOR	8011595	11.26
WWAK4-1-WAS4/S366	8022922	11.10	WWAK4P2-0,3-WWAS4/P00	8012784	11.28

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WWAK4P2-0,3-WWAS4/S398	8023065	11.28	WWAK4P2-2-WWAS4/P00	8012788	11.28
WWAK4P2-0,3-WWAS4/S74	8012800	11.28	WWAK4P2-2-WWAS4/S366	8023014	11.28
WWAK4P2-0,3-WWAS4/S90	8012790	11.28	WWAK4P2-2-WWAS4/S398	8023069	11.28
WWAK4P2-0,3-WWAS4/XOR	8012796	11.28	WWAK4P2-2-WWAS4/S74	8012803	11.28
WWAK4P2-0,6-WAS4/P00	8011600	11.26	WWAK4P2-2-WWAS4/S90	8012794	11.28
WWAK4P2-0,6-WAS4/S320/S398	8017911	11.26	WWAK4P2-2-WWAS4/XOR	8012697	11.28
WWAK4P2-0,6-WAS4/S366	8022985	11.26	WWAK4P2-5/P00	8009247	2.21
WWAK4P2-0,6-WAS4/S74	8011606	11.26	WWAK4P2-5/S366	8020016	2.21
WWAK4P2-0,6-WAS4/S90	8011601	11.26	WWAK4P2-5/S398	8019474	2.21
WWAK4P2-0,6-WAS4/XOR	8011602	11.26	WWAK4P2-5/S74	8009900	2.21
WWAK4P2-0,6-WWAS4/P00	8012785	11.28	WWAK4P2-5/S90	8009248	2.21
WWAK4P2-0,6-WWAS4/S366	8023011	11.28	WWAK4P2-5/XOR	8009249	2.21
WWAK4P2-0,6-WWAS4/S398	8023066	11.28	WWAK4P2-5-WAS4/P00	8011585	11.26
WWAK4P2-0,6-WWAS4/S74	8012801	11.28	WWAK4P2-5-WAS4/S366	8022989	11.26
WWAK4P2-0,6-WWAS4/S90	8012791	11.28	WWAK4P2-5-WAS4/S398	8016729	11.26
WWAK4P2-0,6-WWAS4/XOR	8012797	11.28	WWAK4P2-5-WAS4/S74	8011590	11.26
WWAK4P2-1,5-WAS4/P00	8011607	11.26	WWAK4P2-5-WAS4/S90	8011586	11.26
WWAK4P2-1,5-WAS4/S366	8022987	11.26	WWAK4P2-5-WAS4/XOR	8010272	11.26
WWAK4P2-1,5-WAS4/S398	8017812	11.26	WWAK4P2-5-WWAS4/P00	8012789	11.28
WWAK4P2-1,5-WAS4/S90	8009357	11.26	WWAK4P2-5-WWAS4/S366	8023015	11.28
WWAK4P2-1,5-WAS4/XOR	8009358	11.26	WWAK4P2-5-WWAS4/S398	8023070	11.28
WWAK4P2-1,5-WWAS4/P00	8012787	11.28	WWAK4P2-5-WWAS4/S74	8012804	11.28
WWAK4P2-1,5-WWAS4/S366	8023013	11.28	WWAK4P2-5-WWAS4/S90	8012795	11.28
WWAK4P2-1,5-WWAS4/S398	8023068	11.28	WWAK4P2-5-WWAS4/XOR	8012696	11.28
WWAK4P2-1,5-WWAS4/S74	8012802	11.28	WWAK4P3.1-0,3-WAS4/P00	8010301	11.33
WWAK4P2-1,5-WWAS4/S90	8012793	11.28	WWAK4P3.1-0,3-WAS4/S366	8022413	11.33
WWAK4P2-1,5-WWAS4/XOR	8012799	11.28	WWAK4P3.1-0,3-WAS4/S398	8010307	11.33
WWAK4P2-10/P00	8009250	2.21	WWAK4P3.1-0,3-WAS4/S74	8010308	11.33
WWAK4P2-10/S366	8020017	2.21	WWAK4P3.1-0,3-WAS4/S90	8010302	11.33
WWAK4P2-10/S398	8020018	2.21	WWAK4P3.1-0,3-WAS4/XOR	8010303	11.33
WWAK4P2-10/S74	8009904	2.21	WWAK4P3.1-0,3-WWAS4/P00	8011636	11.35
WWAK4P2-10/S90	8009251	2.21	WWAK4P3.1-0,3-WWAS4/S366	8022430	11.35
WWAK4P2-10/XOR	8009252	2.21	WWAK4P3.1-0,3-WWAS4/S398	8011642	11.35
WWAK4P2-1-WAS4/P00	8011575	11.26	WWAK4P3.1-0,3-WWAS4/S74	8011643	11.35
WWAK4P2-1-WAS4/S366	8022986	11.26	WWAK4P3.1-0,3-WWAS4/S90	8011637	11.35
WWAK4P2-1-WAS4/S398	8017471	11.26	WWAK4P3.1-0,3-WWAS4/XOR	8011638	11.35
WWAK4P2-1-WAS4/S74	8011579	11.26	WWAK4P3.1-0,6-WAS4/P00	8010310	11.33
WWAK4P2-1-WAS4/S90	8011576	11.26	WWAK4P3.1-0,6-WAS4/S366	8022414	11.33
WWAK4P2-1-WAS4/XOR	8009351	11.26	WWAK4P3.1-0,6-WAS4/S398	8010316	11.33
WWAK4P2-1-WWAS4/P00	8012786	11.28	WWAK4P3.1-0,6-WAS4/S74	8010317	11.33
WWAK4P2-1-WWAS4/S366	8023012	11.28	WWAK4P3.1-0,6-WAS4/S90	8010311	11.33
WWAK4P2-1-WWAS4/S398	8023067	11.28	WWAK4P3.1-0,6-WAS4/XOR	8010312	11.33
WWAK4P2-1-WWAS4/S74	8012582	11.28	WWAK4P3.1-0,6-WWAS4/P00	8011644	11.35
WWAK4P2-1-WWAS4/S90	8012792	11.28	WWAK4P3.1-0,6-WWAS4/S366	8022431	11.35
WWAK4P2-1-WWAS4/XOR	8012798	11.28	WWAK4P3.1-0,6-WWAS4/S398	8011650	11.35
WWAK4P2-2/P00	8009889	2.21	WWAK4P3.1-0,6-WWAS4/S74	8011651	11.35
WWAK4P2-2/S366	8020015	2.21	WWAK4P3.1-0,6-WWAS4/S90	8011645	11.35
WWAK4P2-2/S398	8015265	2.21	WWAK4P3.1-0,6-WWAS4/XOR	8011646	11.35
WWAK4P2-2/S74	8009894	2.21	WWAK4P3.1-1,5-WAS4/P00	8010318	11.33
WWAK4P2-2/S90	8009246	2.21	WWAK4P3.1-1,5-WAS4/S366	8022416	11.33
WWAK4P2-2/XOR	8009890	2.21	WWAK4P3.1-1,5-WAS4/S398	8010324	11.33
WWAK4P2-2-WAS4/P00	8011580	11.26	WWAK4P3.1-1,5-WAS4/S74	8010325	11.33
WWAK4P2-2-WAS4/S366	8022988	11.26	WWAK4P3.1-1,5-WAS4/S90	8010319	11.33
WWAK4P2-2-WAS4/S398	8017472	11.26	WWAK4P3.1-1,5-WAS4/XOR	8010320	11.33
WWAK4P2-2-WAS4/S74	8009355	11.26	WWAK4P3.1-1,5-WWAS4/P00	8011652	11.35
WWAK4P2-2-WAS4/S90	8011581	11.26	WWAK4P3.1-1,5-WWAS4/S366	8022433	11.35

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WWAK4P3.1-1,5-WWAS4/S74	8011659	11.35	WWAK4P3-0,3-WAS4/P00	8009383	11.29
WWAK4P3.1-1,5-WWAS4/S90	8011653	11.35	WWAK4P3-0,3-WAS4/S366	8023017	11.29
WWAK4P3.1-1,5-WWAS4/XOR	8011654	11.35	WWAK4P3-0,3-WAS4/S398	8009389	11.29
WWAK4P3.1-10/P00	8009945	2.23	WWAK4P3-0,3-WAS4/S74	8009390	11.29
WWAK4P3.1-10/S366	8020026	2.23	WWAK4P3-0,3-WAS4/S90	8009384	11.29
WWAK4P3.1-10/S398	8017978	2.23	WWAK4P3-0,3-WAS4/XOR	8009385	11.29
WWAK4P3.1-10/S74	8009951	2.23	WWAK4P3-0,3-WWAS4/P00	8022126	11.31
WWAK4P3.1-10/S90	8009946	2.23	WWAK4P3-0,3-WWAS4/S366	8023044	11.31
WWAK4P3.1-10/XOR	8009947	2.23	WWAK4P3-0,3-WWAS4/S398	8017603	11.31
WWAK4P3.1-1-WAS4/P00	8010276	11.33	WWAK4P3-0,3-WWAS4/S74	8022142	11.31
WWAK4P3.1-1-WAS4/S366	8022415	11.33	WWAK4P3-0,3-WWAS4/S90	8018748	11.31
WWAK4P3.1-1-WAS4/S398	8010281	11.33	WWAK4P3-0,3-WWAS4/XOR	8022134	11.31
WWAK4P3.1-1-WAS4/S74	8010282	11.33	WWAK4P3-0,6-WAS4/P00	8009391	11.29
WWAK4P3.1-1-WAS4/S90	8010277	11.33	WWAK4P3-0,6-WAS4/S366	8023018	11.29
WWAK4P3.1-1-WAS4/XOR	8009404	11.33	WWAK4P3-0,6-WAS4/S398	8009396	11.29
WWAK4P3.1-1-WWAS4/P00	8011612	11.35	WWAK4P3-0,6-WAS4/S74	8008661	11.29
WWAK4P3.1-1-WWAS4/S366	8022432	11.35	WWAK4P3-0,6-WAS4/S90	8009392	11.29
WWAK4P3.1-1-WWAS4/S398	8011618	11.35	WWAK4P3-0,6-WAS4/XOR	8008660	11.29
WWAK4P3.1-1-WWAS4/S74	8011619	11.35	WWAK4P3-0,6-WWAS4/P00	8022127	11.31
WWAK4P3.1-1-WWAS4/S90	8011613	11.35	WWAK4P3-0,6-WWAS4/S366	8023045	11.31
WWAK4P3.1-1-WWAS4/XOR	8011614	11.35	WWAK4P3-0,6-WWAS4/S398	8016800	11.31
WWAK4P3.1-2/P00	8009930	2.23	WWAK4P3-0,6-WWAS4/S74	8022146	11.31
WWAK4P3.1-2/S366	8020024	2.23	WWAK4P3-0,6-WWAS4/S90	8017784	11.31
WWAK4P3.1-2/S398	8013536	2.23	WWAK4P3-0,6-WWAS4/XOR	8022135	11.31
WWAK4P3.1-2/S74	8009936	2.23	WWAK4P3-1,5-WAS4/P00	8009397	11.29
WWAK4P3.1-2/S90	8010239	2.23	WWAK4P3-1,5-WAS4/S366	8023020	11.29
WWAK4P3.1-2/XOR	8009932	2.23	WWAK4P3-1,5-WAS4/S398	8009403	11.29
WWAK4P3.1-2-WAS4/P00	8010283	11.33	WWAK4P3-1,5-WAS4/S74	8008662	11.29
WWAK4P3.1-2-WAS4/S366	8022417	11.33	WWAK4P3-1,5-WAS4/S90	8009398	11.29
WWAK4P3.1-2-WAS4/S398	8010288	11.33	WWAK4P3-1,5-WAS4/XOR	8009399	11.29
WWAK4P3.1-2-WAS4/S74	8010289	11.33	WWAK4P3-1,5-WWAS4/P00	8022129	11.31
WWAK4P3.1-2-WAS4/S90	8010284	11.33	WWAK4P3-1,5-WWAS4/S366	8023047	11.31
WWAK4P3.1-2-WAS4/XOR	8009405	11.33	WWAK4P3-1,5-WWAS4/S398	8017604	11.31
WWAK4P3.1-2-WWAS4/P00	8011620	11.35	WWAK4P3-1,5-WWAS4/S74	8022150	11.31
WWAK4P3.1-2-WWAS4/S366	8022434	11.35	WWAK4P3-1,5-WWAS4/S90	8018428	11.31
WWAK4P3.1-2-WWAS4/S398	8011626	11.35	WWAK4P3-1,5-WWAS4/XOR	8022136	11.31
WWAK4P3.1-2-WWAS4/S74	8011627	11.35	WWAK4P3-10/P00	8009922	2.22
WWAK4P3.1-2-WWAS4/S90	8011621	11.35	WWAK4P3-10/S366	8020021	2.22
WWAK4P3.1-2-WWAS4/XOR	8011622	11.35	WWAK4P3-10/S398	8020023	2.22
WWAK4P3.1-5/P00	8009938	2.23	WWAK4P3-10/S74	8009928	2.22
WWAK4P3.1-5/S366	8020025	2.23	WWAK4P3-10/S90	8009923	2.22
WWAK4P3.1-5/S398	8017401	2.23	WWAK4P3-10/XOR	8009924	2.22
WWAK4P3.1-5/S74	8009944	2.23	WWAK4P3-1-WAS4/P00	8009361	11.29
WWAK4P3.1-5/S90	8010077	2.23	WWAK4P3-1-WAS4/S366	8023019	11.29
WWAK4P3.1-5/XOR	8010240	2.23	WWAK4P3-1-WAS4/S398	8009366	11.29
WWAK4P3.1-5-WAS4/P00	8010292	11.33	WWAK4P3-1-WAS4/S74	8009367	11.29
WWAK4P3.1-5-WAS4/S366	8022418	11.33	WWAK4P3-1-WAS4/S90	8009362	11.29
WWAK4P3.1-5-WAS4/S398	8022420	11.33	WWAK4P3-1-WAS4/XOR	8008652	11.29
WWAK4P3.1-5-WAS4/S74	8010299	11.33	WWAK4P3-1-WWAS4/P00	8022128	11.31
WWAK4P3.1-5-WAS4/S90	8010293	11.33	WWAK4P3-1-WWAS4/S366	8023046	11.31
WWAK4P3.1-5-WAS4/XOR	8010294	11.33	WWAK4P3-1-WWAS4/S398	8017605	11.31
WWAK4P3.1-5-WWAS4/P00	8011628	11.35	WWAK4P3-1-WWAS4/S74	8022147	11.31
WWAK4P3.1-5-WWAS4/S366	8022435	11.35	WWAK4P3-1-WWAS4/S90	8017785	11.31
WWAK4P3.1-5-WWAS4/S398	8011634	11.35	WWAK4P3-1-WWAS4/XOR	8017368	11.31
WWAK4P3.1-5-WWAS4/S74	8011635	11.35	WWAK4P3-2/P00	8009909	2.22
WWAK4P3.1-5-WWAS4/S90	8011629	11.35	WWAK4P3-2/S366	8020019	2.22

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WWAK4P3-2/S74	8009915	2.22	WWAK5-0,6-WWAS5/XOR	8006999	11.19
WWAK4P3-2/S90	8009910	2.22	WWAK5-1,5-WAS5/P00	8006900	11.11
WWAK4P3-2/XOR	8009911	2.22	WWAK5-1,5-WAS5/S366	8022930	11.11
WWAK4P3-2-WAS4/P00	8009368	11.29	WWAK5-1,5-WAS5/S398	8016492	11.11
WWAK4P3-2-WAS4/S366	8023021	11.29	WWAK5-1,5-WAS5/S74	8006904	11.11
WWAK4P3-2-WAS4/S398	8009373	11.29	WWAK5-1,5-WAS5/S90	8006901	11.11
WWAK4P3-2-WAS4/S74	8008654	11.29	WWAK5-1,5-WAS5/XOR	8006902	11.11
WWAK4P3-2-WAS4/S90	8009369	11.29	WWAK5-1,5-WWAS5/P00	8007002	11.19
WWAK4P3-2-WAS4/XOR	8008653	11.29	WWAK5-1,5-WWAS5/S366	8022973	11.19
WWAK4P3-2-WWAS4/P00	8022130	11.31	WWAK5-1,5-WWAS5/S398	8023061	11.19
WWAK4P3-2-WWAS4/S366	8023048	11.31	WWAK5-1,5-WWAS5/S74	8007006	11.19
WWAK4P3-2-WWAS4/S398	8017606	11.31	WWAK5-1,5-WWAS5/S90	8007003	11.19
WWAK4P3-2-WWAS4/S74	8022151	11.31	WWAK5-1,5-WWAS5/XOR	8007004	11.19
WWAK4P3-2-WWAS4/S90	8018429	11.31	WWAK5-10/P00	8007179	2.18
WWAK4P3-2-WWAS4/XOR	8022137	11.31	WWAK5-10/S366	8020006	2.18
WWAK4P3-5/P00	8009916	2.22	WWAK5-10/S398	8020008	2.18
WWAK4P3-5/S366	8020020	2.22	WWAK5-10/S74	8007183	2.18
WWAK4P3-5/S398	8017891	2.22	WWAK5-10/S90	8007180	2.18
WWAK4P3-5/S74	8009921	2.22	WWAK5-10/XOR	8007181	2.18
WWAK4P3-5/S90	8009917	2.22	WWAK5-1-WAS5/P00	8006875	11.11
WWAK4P3-5/XOR	8009253	2.22	WWAK5-1-WAS5/S366	8022929	11.11
WWAK4P3-5-WAS4/P00	8009375	11.29	WWAK5-1-WAS5/S398	8016493	11.11
WWAK4P3-5-WAS4/S366	8023022	11.29	WWAK5-1-WAS5/S74	8006879	11.11
WWAK4P3-5-WAS4/S398	8009380	11.29	WWAK5-1-WAS5/S90	8006876	11.11
WWAK4P3-5-WAS4/S74	8009381	11.29	WWAK5-1-WAS5/XOR	8006877	11.11
WWAK4P3-5-WAS4/S90	8009376	11.29	WWAK5-1-WWAS5/P00	8006977	11.19
WWAK4P3-5-WAS4/XOR	8008656	11.29	WWAK5-1-WWAS5/S366	8022972	11.19
WWAK4P3-5-WWAS4/P00	8022131	11.31	WWAK5-1-WWAS5/S398	8023060	11.19
WWAK4P3-5-WWAS4/S366	8023049	11.31	WWAK5-1-WWAS5/S74	8006981	11.19
WWAK4P3-5-WWAS4/S398	8023024	11.31	WWAK5-1-WWAS5/S90	8006978	11.19
WWAK4P3-5-WWAS4/S74	8022152	11.31	WWAK5-1-WWAS5/XOR	8006979	11.19
WWAK4P3-5-WWAS4/S90	8018749	11.31	WWAK5-2/P00	8007169	2.18
WWAK4P3-5-WWAS4/XOR	8022139	11.31	WWAK5-2/S366	8020004	2.18
WWAK4P4-1,5-WAS4/S74	8011611	11.26	WWAK5-2/S398	8017927	2.18
WWAK5-0,3-WAS5/P00	8006890	11.11	WWAK5-2/S74	8007173	2.18
WWAK5-0,3-WAS5/S366	8022927	11.11	WWAK5-2/S90	8007170	2.18
WWAK5-0,3-WAS5/S398	8022934	11.11	WWAK5-2/XOR	8007171	2.18
WWAK5-0,3-WAS5/S74	8006894	11.11	WWAK5-2-WAS5/P00	8006880	11.11
WWAK5-0,3-WAS5/S90	8006891	11.11	WWAK5-2-WAS5/S366	8022931	11.11
WWAK5-0,3-WAS5/XOR	8006892	11.11	WWAK5-2-WAS5/S398	8020156	11.11
WWAK5-0,3-WWAS5/P00	8006992	11.19	WWAK5-2-WAS5/S74	8006884	11.11
WWAK5-0,3-WWAS5/S366	8022970	11.19	WWAK5-2-WAS5/S90	8006881	11.11
WWAK5-0,3-WWAS5/S398	8023058	11.19	WWAK5-2-WAS5/XOR	8006882	11.11
WWAK5-0,3-WWAS5/S74	8006996	11.19	WWAK5-2-WWAS5/P00	8006982	11.19
WWAK5-0,3-WWAS5/S90	8006993	11.19	WWAK5-2-WWAS5/S366	8022974	11.19
WWAK5-0,3-WWAS5/XOR	8006994	11.19	WWAK5-2-WWAS5/S398	8023062	11.19
WWAK5-0,6-WAS5/P00	8006895	11.11	WWAK5-2-WWAS5/S74	8006986	11.19
WWAK5-0,6-WAS5/S366	8022928	11.11	WWAK5-2-WWAS5/S90	8006983	11.19
WWAK5-0,6-WAS5/S398	8016491	11.11	WWAK5-2-WWAS5/XOR	8006984	11.19
WWAK5-0,6-WAS5/S74	8006899	11.11	WWAK5-5/P00	8007174	2.18
WWAK5-0,6-WAS5/S90	8006896	11.11	WWAK5-5/S366	8020005	2.18
WWAK5-0,6-WAS5/XOR	8006897	11.11	WWAK5-5/S398	8020007	2.18
WWAK5-0,6-WWAS5/P00	8006997	11.19	WWAK5-5/S74	8007178	2.18
WWAK5-0,6-WWAS5/S366	8022971	11.19	WWAK5-5/S90	8007175	2.18
WWAK5-0,6-WWAS5/S398	8023059	11.19	WWAK5-5/XOR	8007176	2.18
WWAK5-0,6-WWAS5/S74	8007001	11.19	WWAK5-5-WAS5/P00	8006885	11.11

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WWAK5-5-WAS5/S398	8022935	11.11	WWAK5P3.1-1-WWAS5/P00	8022265	11.36
WWAK5-5-WAS5/S74	8006889	11.11	WWAK5P3.1-1-WWAS5/S366	8022439	11.36
WWAK5-5-WAS5/S90	8006886	11.11	WWAK5P3.1-1-WWAS5/S398	8021385	11.36
WWAK5-5-WAS5/XOR	8006887	11.11	WWAK5P3.1-1-WWAS5/S74	8022258	11.36
WWAK5-5-WWAS5/P00	8006987	11.19	WWAK5P3.1-1-WWAS5/S90	8022272	11.36
WWAK5-5-WWAS5/S366	8022975	11.19	WWAK5P3.1-1-WWAS5/XOR	8022253	11.36
WWAK5-5-WWAS5/S398	8023063	11.19	WWAK5P3.1-2/P00	8009953	2.23
WWAK5-5-WWAS5/S74	8006991	11.19	WWAK5P3.1-2/S366	8020027	2.23
WWAK5-5-WWAS5/S90	8006988	11.19	WWAK5P3.1-2/S398	8020030	2.23
WWAK5-5-WWAS5/XOR	8006989	11.19	WWAK5P3.1-2/S74	8009957	2.23
WWAK5P3.1-0,3-WAS5/P00	8010747	11.34	WWAK5P3.1-2/S90	8009954	2.23
WWAK5P3.1-0,3-WAS5/S366	8022422	11.34	WWAK5P3.1-2/XOR	8009955	2.23
WWAK5P3.1-0,3-WAS5/S398	8020094	11.34	WWAK5P3.1-2-WAS5/P00	8010737	11.34
WWAK5P3.1-0,3-WAS5/S74	8010751	11.34	WWAK5P3.1-2-WAS5/S366	8022426	11.34
WWAK5P3.1-0,3-WAS5/S90	8010748	11.34	WWAK5P3.1-2-WAS5/S398	8016271	11.34
WWAK5P3.1-0,3-WAS5/XOR	8010749	11.34	WWAK5P3.1-2-WAS5/S74	8010741	11.34
WWAK5P3.1-0,3-WWAS5/P00	8022263	11.36	WWAK5P3.1-2-WAS5/S90	8010738	11.34
WWAK5P3.1-0,3-WWAS5/S366	8022437	11.36	WWAK5P3.1-2-WAS5/XOR	8010739	11.34
WWAK5P3.1-0,3-WWAS5/S398	8022342	11.36	WWAK5P3.1-2-WWAS5/P00	8022267	11.36
WWAK5P3.1-0,3-WWAS5/S74	8022256	11.36	WWAK5P3.1-2-WWAS5/S366	8022441	11.36
WWAK5P3.1-0,3-WWAS5/XOR	8022251	11.36	WWAK5P3.1-2-WWAS5/S398	8022345	11.36
WWAK5P3.1-0,6-WAS5/P00	8010752	11.34	WWAK5P3.1-2-WWAS5/S74	8022260	11.36
WWAK5P3.1-0,6-WAS5/S366	8022423	11.34	WWAK5P3.1-2-WWAS5/S90	8022275	11.36
WWAK5P3.1-0,6-WAS5/S398	8016495	11.34	WWAK5P3.1-2-WWAS5/XOR	8022254	11.36
WWAK5P3.1-0,6-WAS5/S74	8010755	11.34	WWAK5P3.1-5/P00	8009958	2.23
WWAK5P3.1-0,6-WAS5/S90	8010753	11.34	WWAK5P3.1-5/S366	8020028	2.23
WWAK5P3.1-0,6-WAS5/XOR	8010754	11.34	WWAK5P3.1-5/S398	8020031	2.23
WWAK5P3.1-0,6-WWAS5/P00	8022264	11.36	WWAK5P3.1-5/S74	8009962	2.23
WWAK5P3.1-0,6-WWAS5/S366	8022438	11.36	WWAK5P3.1-5/S90	8009959	2.23
WWAK5P3.1-0,6-WWAS5/S398	8022343	11.36	WWAK5P3.1-5/XOR	8009960	2.23
WWAK5P3.1-0,6-WWAS5/S74	8022257	11.36	WWAK5P3.1-5-WAS5/P00	8010742	11.34
WWAK5P3.1-0,6-WWAS5/S90	8022271	11.36	WWAK5P3.1-5-WAS5/S366	8022427	11.34
WWAK5P3.1-0,6-WWAS5/XOR	8022252	11.36	WWAK5P3.1-5-WAS5/S398	8017763	11.34
WWAK5P3.1-1,5-WAS5/P00	8010756	11.34	WWAK5P3.1-5-WAS5/S74	8010746	11.34
WWAK5P3.1-1,5-WAS5/S366	8022425	11.34	WWAK5P3.1-5-WAS5/S90	8010743	11.34
WWAK5P3.1-1,5-WAS5/S398	8016496	11.34	WWAK5P3.1-5-WAS5/XOR	8010744	11.34
WWAK5P3.1-1,5-WAS5/S74	8010759	11.34	WWAK5P3.1-5-WWAS5/P00	8022268	11.36
WWAK5P3.1-1,5-WAS5/S90	8010757	11.34	WWAK5P3.1-5-WWAS5/S366	8022442	11.36
WWAK5P3.1-1,5-WAS5/XOR	8010758	11.34	WWAK5P3.1-5-WWAS5/S398	8022346	11.36
WWAK5P3.1-1,5-WWAS5/P00	8022266	11.36	WWAK5P3.1-5-WWAS5/S74	8022261	11.36
WWAK5P3.1-1,5-WWAS5/S366	8022440	11.36	WWAK5P3.1-5-WWAS5/S90	8022276	11.36
WWAK5P3.1-1,5-WWAS5/S398	8022344	11.36	WWAK5P3.1-5-WWAS5/XOR	8021723	11.36
WWAK5P3.1-1,5-WWAS5/S74	8022259	11.36	WWAK5P3-0,3-WAS5/P00	8013537	11.30
WWAK5P3.1-1,5-WWAS5/S90	8022273	11.36	WWAK5P3-0,3-WAS5/S366	8023037	11.30
WWAK5P3.1-1,5-WWAS5/XOR	8017381	11.36	WWAK5P3-0,3-WAS5/S398	8019197	11.30
WWAK5P3.1-10/P00	8009963	2.23	WWAK5P3-0,3-WAS5/S74	8013555	11.30
WWAK5P3.1-10/S366	8020029	2.23	WWAK5P3-0,3-WAS5/S90	8013543	11.30
WWAK5P3.1-10/S398	8020032	2.23	WWAK5P3-0,3-WAS5/XOR	8013549	11.30
WWAK5P3.1-10/S74	8009966	2.23	WWAK5P3-0,3-WWAS5/P00	8023051	11.32
WWAK5P3.1-10/S90	8009964	2.23	WWAK5P3-0,3-WWAS5/S366	8022308	11.32
WWAK5P3.1-10/XOR	8009254	2.23	WWAK5P3-0,3-WWAS5/S398	8022334	11.32
WWAK5P3.1-1-WAS5/P00	8010733	11.34	WWAK5P3-0,3-WWAS5/S74	8023318	11.32
WWAK5P3.1-1-WAS5/S366	8022424	11.34	WWAK5P3-0,3-WWAS5/S90	8023304	11.32
WWAK5P3.1-1-WAS5/S398	8016497	11.34	WWAK5P3-0,3-WWAS5/XOR	8023311	11.32
WWAK5P3.1-1-WAS5/S74	8010736	11.34	WWAK5P3-0,6-WAS5/P00	8013538	11.30
WWAK5P3.1-1-WAS5/S90	8010734	11.34	WWAK5P3-0,6-WAS5/S366	8023038	11.30

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WWAK5P3-0,6-WAS5/S74	8013556	11.30	WWAK5P3-5/P00	8013017	2.22
WWAK5P3-0,6-WAS5/S90	8013544	11.30	WWAK5P3-5/S366/S367	8021940	2.22
WWAK5P3-0,6-WAS5/XOR	8013550	11.30	WWAK5P3-5/S398	8021922	2.22
WWAK5P3-0,6-WWAS5/P00	8023052	11.32	WWAK5P3-5/S74	8013026	2.22
WWAK5P3-0,6-WWAS5/S366	8022309	11.32	WWAK5P3-5/S90	8013020	2.22
WWAK5P3-0,6-WWAS5/S398	8022335	11.32	WWAK5P3-5/XOR	8013023	2.22
WWAK5P3-0,6-WWAS5/S74	8023319	11.32	WWAK5P3-5-WAS5/P00	8013542	11.30
WWAK5P3-0,6-WWAS5/S90	8023305	11.32	WWAK5P3-5-WAS5/S366	8023042	11.30
WWAK5P3-0,6-WWAS5/XOR	8023312	11.32	WWAK5P3-5-WAS5/S398	8017372	11.30
WWAK5P3-1,0-WAS5/S398	8023026	11.30	WWAK5P3-5-WAS5/S74	8013560	11.30
WWAK5P3-1,5-WAS5/P00	8013540	11.30	WWAK5P3-5-WAS5/S90	8013548	11.30
WWAK5P3-1,5-WAS5/S366	8023040	11.30	WWAK5P3-5-WAS5/XOR	8013554	11.30
WWAK5P3-1,5-WAS5/S398	8023027	11.30	WWAK5P3-5-WWAS5/P00	8023056	11.32
WWAK5P3-1,5-WAS5/S74	8013558	11.30	WWAK5P3-5-WWAS5/S366	8022332	11.32
WWAK5P3-1,5-WAS5/S90	8013546	11.30	WWAK5P3-5-WWAS5/S398	8022339	11.32
WWAK5P3-1,5-WAS5/XOR	8013552	11.30	WWAK5P3-5-WWAS5/S74	8023323	11.32
WWAK5P3-1,5-WWAS5/P00	8023054	11.32	WWAK5P3-5-WWAS5/S90	8023309	11.32
WWAK5P3-1,5-WWAS5/S366	8022330	11.32	WWAK5P3-5-WWAS5/XOR	8023316	11.32
WWAK5P3-1,5-WWAS5/S398	8022337	11.32	WWAK6-10/P00	8012729	2.18
WWAK5P3-1,5-WWAS5/S74	8023321	11.32	WWAK6-10/S90	8012732	2.18
WWAK5P3-1,5-WWAS5/S90	8023307	11.32	WWAK6-2/P00	8012727	2.18
WWAK5P3-1,5-WWAS5/XOR	8023314	11.32	WWAK6-2/S90	8012730	2.18
WWAK5P3-10/P00	8013018	2.22	WWAK6-5/P00	8012728	2.18
WWAK5P3-10/S366/S367	8021941	2.22	WWAK6-5/S90	8012731	2.18
WWAK5P3-10/S398	8021923	2.22	WWAK8.005-10/S1117	8031295	2.19
WWAK5P3-10/S74	8013027	2.22	WWAK8.005-2/S1117	8031293	2.19
WWAK5P3-10/S90	8013021	2.22	WWAK8.005-5/S1117	8031294	2.19
WWAK5P3-10/XOR	8013024	2.22	WWAK8-0,3-WAS8/P00	8022937	11.12
WWAK5P3-1-WAS5/P00	8013539	11.30	WWAK8-0,3-WAS8/S366	8022944	11.12
WWAK5P3-1-WAS5/S366	8023039	11.30	WWAK8-0,3-WWAS8/P00	8023224	11.20
WWAK5P3-1-WAS5/S74	8013557	11.30	WWAK8-0,3-WWAS8/S366	8023232	11.20
WWAK5P3-1-WAS5/S90	8013545	11.30	WWAK8-0,6-WAS8/P00	8022938	11.12
WWAK5P3-1-WAS5/XOR	8013551	11.30	WWAK8-0,6-WAS8/S366	8022945	11.12
WWAK5P3-1-WWAS5/P00	8023053	11.32	WWAK8-0,6-WWAS8/P00	8023225	11.20
WWAK5P3-1-WWAS5/S366	8022329	11.32	WWAK8-0,6-WWAS8/S366	8023234	11.20
WWAK5P3-1-WWAS5/S398	8022336	11.32	WWAK8-1,5-WAS8/P00	8022940	11.12
WWAK5P3-1-WWAS5/S74	8023320	11.32	WWAK8-1,5-WAS8/S366	8022947	11.12
WWAK5P3-1-WWAS5/S90	8023306	11.32	WWAK8-1,5-WWAS8/P00	8023228	11.20
WWAK5P3-1-WWAS5/XOR	8023313	11.32	WWAK8-1,5-WWAS8/S366	8023237	11.20
WWAK5P3-2/P00	8013016	2.22	WWAK8-10/P00	8012717	2.19
WWAK5P3-2/S366/S367	8021939	2.22	WWAK8-10/S2429/S2430	8039230	8.8
WWAK5P3-2/S398	8021921	2.22	WWAK8-10/S366	8020011	2.19
WWAK5P3-2/S74	8013025	2.22	WWAK8-10/S90	8012720	2.19
WWAK5P3-2/S90	8013019	2.22	WWAK8-10-WWAS8/S2429/S2430	8039968	8.32
WWAK5P3-2/XOR	8013022	2.22	WWAK8-1-WAS8/P00	8022939	11.12
WWAK5P3-2-WAS5/P00	8013541	11.30	WWAK8-1-WAS8/S366	8022946	11.12
WWAK5P3-2-WAS5/S366	8023041	11.30	WWAK8-1-WWAS8/P00	8023227	11.20
WWAK5P3-2-WAS5/S398	8021980	11.30	WWAK8-1-WWAS8/S366	8023235	11.20
WWAK5P3-2-WAS5/S74	8013559	11.30	WWAK8-2/P00	8012715	2.19
WWAK5P3-2-WAS5/S90	8013547	11.30	WWAK8-2/S2429/S2430	8039229	8.8
WWAK5P3-2-WAS5/XOR	8013553	11.30	WWAK8-2/S366	8020009	2.19
WWAK5P3-2-WWAS5/P00	8023055	11.32	WWAK8-2/S90	8012718	2.19
WWAK5P3-2-WWAS5/S366	8022331	11.32	WWAK8-2-WAS8/P00	8022941	11.12
WWAK5P3-2-WWAS5/S398	8022338	11.32	WWAK8-2-WAS8/S366	8022948	11.12
WWAK5P3-2-WWAS5/S74	8023322	11.32	WWAK8-2-WWAS8/P00	8023229	11.20
WWAK5P3-2-WWAS5/S90	8023308	11.32	WWAK8-2-WWAS8/S2429/S2430	8039966	8.32

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WWAK8-5/P00	8012716	2.19	WWAKS4.5-1,5-WASS4.5/P00	8023195	11.15
WWAK8-5/S2429/S2430	8037024	8.8	WWAKS4.5-1,5-WASS4.5/S366	8023202	11.15
WWAK8-5/S366	8020010	2.19	WWAKS4.5-1,5-WWASS4.5/P00	8023293	11.23
WWAK8-5/S90	8012719	2.19	WWAKS4.5-1,5-WWASS4.5/S366	8023300	11.23
WWAK8-5-WAS8/P00	8022942	11.12	WWAKS4.5-10/P00	8019139	2.25
WWAK8-5-WAS8/S366	8022949	11.12	WWAKS4.5-10/S366	8019087	2.25
WWAK8-5-WWAS8/P00	8023230	11.20	WWAKS4.5-1-WASS4.5/P00	8023194	11.15
WWAK8-5-WWAS8/S2429/S2430	8039967	8.32	WWAKS4.5-1-WASS4.5/S366	8023201	11.15
WWAK8-5-WWAS8/S366	8023239	11.20	WWAKS4.5-1-WWASS4.5/P00	8023292	11.23
WWAKC4	8004808	2.28	WWAKS4.5-2/P00	8019137	2.25
WWAKC4S	8019719	2.29	WWAKS4.5-2/S366	8019085	2.25
WWAKC5	8004809	2.28	WWAKS4.5-2-WASS4.5/P00	8023196	11.15
WWAKS12-10/P00	8028613	2.26	WWAKS4.5-2-WASS4.5/S366	8023203	11.15
WWAKS12-10/S366	8028616	2.26	WWAKS4.5-2-WWASS4.5/P00	8023294	11.23
WWAKS12-2/P00	8028611	2.26	WWAKS4.5-2-WWASS4.5/S366	8023301	11.23
WWAKS12-2/S366	8028614	2.26	WWAKS4.5-5/P00	8019138	2.25
WWAKS12-5/P00	8028612	2.26	WWAKS4.5-5/S366	8019086	2.25
WWAKS12-5/S366	8028615	2.26	WWAKS4.5-5-WASS4.5/P00	8023197	11.15
WWAKS3-0,3-WASS3/P00	8023163	11.13	WWAKS4.5-5-WASS4.5/S366	8023204	11.15
WWAKS3-0,3-WASS3/S366	8023170	11.13	WWAKS4.5-5-WWASS4.5/P00	8023295	11.23
WWAKS3-0,3-WWASS3/P00	8023262	11.21	WWAKS4.5-5-WWASS4.5/S366	8023302	11.23
WWAKS3-0,3-WWASS3/S366	8023269	11.21	WWAKS4-0,3-WASS4/P00	8023177	11.14
WWAKS3-0,6-WASS3/P00	8023164	11.13	WWAKS4-0,3-WASS4/S366	8023184	11.14
WWAKS3-0,6-WASS3/S366	8023171	11.13	WWAKS4-0,3-WWASS4/P00	8023276	11.22
WWAKS3-0,6-WWASS3/P00	8023263	11.21	WWAKS4-0,3-WWASS4/S366	8023283	11.22
WWAKS3-0,6-WWASS3/S366	8023270	11.21	WWAKS4-0,6-WASS4/P00	8023178	11.14
WWAKS3-1,5-WASS3/P00	8023166	11.13	WWAKS4-0,6-WASS4/S366	8023185	11.14
WWAKS3-1,5-WASS3/S366	8023173	11.13	WWAKS4-0,6-WWASS4/P00	8023277	11.22
WWAKS3-1,5-WWASS3/P00	8023265	11.21	WWAKS4-0,6-WWASS4/S366	8023284	11.22
WWAKS3-1,5-WWASS3/S366	8023272	11.21	WWAKS4-1,5-WASS4/P00	8023180	11.14
WWAKS3-10/P00	8019075	2.24	WWAKS4-1,5-WASS4/S366	8023187	11.14
WWAKS3-10/S366	8019078	2.24	WWAKS4-1,5-WWASS4/P00	8023279	11.22
WWAKS3-1-WASS3/P00	8023165	11.13	WWAKS4-1,5-WWASS4/S366	8023286	11.22
WWAKS3-1-WASS3/S366	8023172	11.13	WWAKS4-10/P00	8019081	2.24
WWAKS3-1-WWASS3/P00	8023264	11.21	WWAKS4-10/S366	8019084	2.24
WWAKS3-1-WWASS3/S366	8023271	11.21	WWAKS4-1-WASS4/P00	8023179	11.14
WWAKS3-2/P00	8019073	2.24	WWAKS4-1-WASS4/S366	8023186	11.14
WWAKS3-2/S366	8019076	2.24	WWAKS4-1-WWASS4/P00	8023278	11.22
WWAKS3-2-WASS3/P00	8023167	11.13	WWAKS4-1-WWASS4/S366	8023285	11.22
WWAKS3-2-WASS3/S366	8023174	11.13	WWAKS4-2/P00	8019079	2.24
WWAKS3-2-WWASS3/P00	8023266	11.21	WWAKS4-2/S366	8019082	2.24
WWAKS3-2-WWASS3/S366	8023273	11.21	WWAKS4-2-WASS4/P00	8023181	11.14
WWAKS3-5/P00	8019074	2.24	WWAKS4-2-WASS4/S366	8023189	11.14
WWAKS3-5/S366	8019077	2.24	WWAKS4-2-WWASS4/P00	8023280	11.22
WWAKS3-5-WASS3/P00	8023168	11.13	WWAKS4-2-WWASS4/S366	8023287	11.22
WWAKS3-5-WASS3/S366	8023175	11.13	WWAKS4-5/P00	8019080	2.24
WWAKS3-5-WWASS3/P00	8023267	11.21	WWAKS4-5/S366	8019083	2.24
WWAKS3-5-WWASS3/S366	8023274	11.21	WWAKS4-5-WASS4/P00	8023182	11.14
WWAKS4.5-0,3-WASS4.5/P00	8023192	11.15	WWAKS4-5-WASS4/S366	8023190	11.14
WWAKS4.5-0,3-WASS4.5/S366	8023199	11.15	WWAKS4-5-WWASS4/P00	8023281	11.22
WWAKS4.5-0,3-WWASS4.5/P00	8023290	11.23	WWAKS4-5-WWASS4/S366	8023288	11.22
WWAKS4.5-0,3-WWASS4.5/S366	8023297	11.23	WWAKS8-0,3-WASS8/P00	8023206	11.16
WWAKS4.5-0,6-WASS4.5/P00	8023193	11.15	WWAKS8-0,3-WASS8/S366	8023213	11.16
WWAKS4.5-0,6-WASS4.5/S366	8023200	11.15	WWAKS8-0,3-WWASS8/P00	8023072	11.24
WWAKS4.5-0,6-WWASS4.5/P00	8023291	11.23	WWAKS8-0,3-WWASS8/S366	8023076	11.24
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WWAKS8-0,6-WWASS8/P00	8023073	11.24	WWAS4-10/P00	8007213	2.44
WWAKS8-0,6-WWASS8/S366	8023077	11.24	WWAS4-10/S2429/S2430	8039470	8.16
WWAKS8-1,5-WASS8/P00	8023209	11.16	WWAS4-10/S366	8020041	2.44
WWAKS8-1,5-WASS8/S366	8023216	11.16	WWAS4-10/S398	8020046	2.44
WWAKS8-1,5-WWASS8/P00	8023075	11.24	WWAS4-10/S74	8007219	2.44
WWAKS8-1,5-WWASS8/S366	8023079	11.24	WWAS4-10/S90	8007214	2.44
WWAKS8-10/P00	8022015	2.25	WWAS4-10/XOR	8007215	2.44
WWAKS8-10/S366	8022017	2.25	WWAS4-2/P00	8007199	2.44
WWAKS8-1-WASS8/P00	8023208	11.16	WWAS4-2/S2429/S2430	8039469	8.16
WWAKS8-1-WASS8/S366	8023215	11.16	WWAS4-2/S366	8020039	2.44
WWAKS8-1-WWASS8/P00	8023074	11.24	WWAS4-2/S398	8020042	2.44
WWAKS8-1-WWASS8/S366	8023078	11.24	WWAS4-2/S74	8007205	2.44
WWAKS8-2/P00	8019059	2.25	WWAS4-2/S90	8007200	2.44
WWAKS8-2/S366	8019060	2.25	WWAS4-2/XOR	8007201	2.44
WWAKS8-2-WASS8/P00	8023210	11.16	WWAS4-5/P00	8007206	2.44
WWAKS8-2-WASS8/S366	8023217	11.16	WWAS4-5/S2429/S2430	8036095	8.16
WWAKS8-2-WWASS8/P00	8022022	11.24	WWAS4-5/S366	8020040	2.44
WWAKS8-2-WWASS8/S366	8022025	11.24	WWAS4-5/S398	8020044	2.44
WWAKS8-5/P00	8022014	2.25	WWAS4-5/S74	8007212	2.44
WWAKS8-5/S366	8022016	2.25	WWAS4-5/S90	8007207	2.44
WWAKS8-5-WASS8/P00	8023211	11.16	WWAS4-5/XOR	8007208	2.44
WWAKS8-5-WASS8/S366	8023218	11.16	WWAS5-10/P00	8007230	2.45
WWAKS8-5-WWASS8/P00	8022023	11.24	WWAS5-10/S366	8020049	2.45
WWAKS8-5-WWASS8/S366	8022026	11.24	WWAS5-10/S398	8019193	2.45
WWAS12-10/P00	8027608	2.46	WWAS5-10/S74	8007234	2.45
WWAS12-10/S2429/S2430	8039478	8.18	WWAS5-10/S90	8007231	2.45
WWAS12-10/S366	8027611	2.46	WWAS5-10/XOR	8007232	2.45
WWAS12-2/P00	8027606	2.46	WWAS5-2/P00	8007220	2.45
WWAS12-2/S2429/S2430	8039476	8.18	WWAS5-2/S366	8020047	2.45
WWAS12-2/S366	8027609	2.46	WWAS5-2/S398	8018884	2.45
WWAS12-5/P00	8027607	2.46	WWAS5-2/S74	8007224	2.45
WWAS12-5/S2429/S2430	8039477	8.18	WWAS5-2/S90	8007221	2.45
WWAS12-5/S366	8027610	2.46	WWAS5-2/XOR	8007222	2.45
WWAS3-10/P00	8007194	2.44	WWAS5-5/P00	8007225	2.45
WWAS3-10/S2429/S2430	8039468	8.16	WWAS5-5/S366	8020048	2.45
WWAS3-10/S366	8020035	2.44	WWAS5-5/S398	8020050	2.45
WWAS3-10/S398	8020038	2.44	WWAS5-5/S74	8007229	2.45
WWAS3-10/S74	8007198	2.44	WWAS5-5/S90	8007226	2.45
WWAS3-10/S90	8007195	2.44	WWAS5-5/XOR	8007227	2.45
WWAS3-10/XOR	8007196	2.44	WWAS6-10/P00	8012735	2.45
WWAS3-2/P00	8007184	2.44	WWAS6-10/S90	8012738	2.45
WWAS3-2/S2429/S2430	8039467	8.16	WWAS6-2/P00	8012733	2.45
WWAS3-2/S366	8020033	2.44	WWAS6-2/S90	8012736	2.45
WWAS3-2/S398	8020036	2.44	WWAS6-5/P00	8012734	2.45
WWAS3-2/S74	8007188	2.44	WWAS6-5/S90	8012737	2.45
WWAS3-2/S90	8007185	2.44	WWAS8-10/P00	8012723	2.46
WWAS3-2/XOR	8007186	2.44	WWAS8-10/S2429/S2430	8039475	8.17
WWAS3-5/P00	8007189	2.44	WWAS8-10/S366	8020053	2.46
WWAS3-5/S2429/S2430	8036094	8.16	WWAS8-10/S90	8012726	2.46
WWAS3-5/S366	8020034	2.44	WWAS8-2/P00	8012721	2.46
WWAS3-5/S398	8020037	2.44	WWAS8-2/S2429/S2430	8039473	8.17
WWAS3-5/S74	8007193	2.44	WWAS8-2/S366	8020051	2.46
WWAS3-5/S90	8007190	2.44	WWAS8-2/S90	8012724	2.46
WWAS3-5/XOR	8007191	2.44	WWAS8-5/P00	8012722	2.46
WWAS4.5-10/S2429/S2430	8039472	8.17	WWAS8-5/S2429/S2430	8039474	8.17
WWAS4.5-2/S2429/S2430	8039471	8.17	WWAS8-5/S366	8020052	2.46

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WWAS8-5/S90	8012725	2.46	ZKP3-0,6-WAS3/S90	8007569	11.39
WWASC4	8004806	2.51	ZKP3-0,6-WAS3/XOR	8007570	11.39
WWASC4S	8019717	2.52	ZKP3-1,5-SP3/P00	8022539	11.57
WWASC5	8004807	2.51	ZKP3-1,5-SP3/S366	8022560	11.57
WWASS12-10/P00	8028619	2.49	ZKP3-1,5-SP3/S74	8022554	11.57
WWASS12-10/S366	8028622	2.49	ZKP3-1,5-SP3/S77/S398	8024080	11.57
WWASS12-2/P00	8028617	2.49	ZKP3-1,5-SP3/S90	8009508	11.57
WWASS12-2/S366	8028620	2.49	ZKP3-1,5-SP3/XOR	8022548	11.57
WWASS12-5/P00	8028618	2.49	ZKP3-1,5-WAS3/P00	8007572	11.39
WWASS12-5/S366	8028621	2.49	ZKP3-1,5-WAS3/S366	8023827	11.39
WWASS3-10/P00	8019090	2.47	ZKP3-1,5-WAS3/S74	8007575	11.39
WWASS3-10/S366	8019093	2.47	ZKP3-1,5-WAS3/S77/S398	8023834	11.39
WWASS3-2/P00	8019088	2.47	ZKP3-1,5-WAS3/S90	8007573	11.39
WWASS3-2/S366	8019091	2.47	ZKP3-1,5-WAS3/XOR	8007574	11.39
WWASS3-5/P00	8019089	2.47	ZKP3-10/P00	8007414	5.3
WWASS3-5/S366	8019092	2.47	ZKP3-10/S366	8023378	5.3
WWASS4.5-10/P00	8019142	2.48	ZKP3-10/S74	8007417	5.3
WWASS4.5-10/S366	8019102	2.48	ZKP3-10/S77/S398	8023381	5.3
WWASS4.5-2/S366	8019100	2.48	ZKP3-10/S90	8007415	5.3
WWASS4.5-5/P00	8019141	2.48	ZKP3-10/XOR	8007416	5.3
WWASS4.5-5/S366	8019101	2.48	ZKP3-1-SP3/P00	8022538	11.57
WWASS4-10/P00	8019096	2.47	ZKP3-1-SP3/S366	8022559	11.57
WWASS4-10/S366	8019099	2.47	ZKP3-1-SP3/S74	8022553	11.57
WWASS4-2/P00	8019094	2.47	ZKP3-1-SP3/S77/S398	8024079	11.57
WWASS4-2/S366	8019097	2.47	ZKP3-1-SP3/S90	8008692	11.57
WWASS44.5-2/P00	8019140	2.48	ZKP3-1-SP3/XOR	8022547	11.57
WWASS4-5/P00	8019095	2.47	ZKP3-1-WAS3/P00	8007552	11.39
WWASS4-5/S366	8019098	2.47	ZKP3-1-WAS3/S366	8023826	11.39
WWASS8-10/P00	8022019	2.48	ZKP3-1-WAS3/S74	8007555	11.39
WWASS8-10/S366	8022021	2.48	ZKP3-1-WAS3/S77/S398	8023832	11.39
WWASS8-2/P00	8019057	2.48	ZKP3-1-WAS3/S90	8007553	11.39
WWASS8-2/S366	8019058	2.48	ZKP3-1-WAS3/XOR	8007554	11.39
WWASS8-5/P00	8022018	2.48	ZKP3-2/P00	8007406	5.3
WWASS8-5/S366	8022020	2.48	ZKP3-2/S366	8023376	5.3
Z			ZKP3-2/S74	8007409	5.3
ZKP3-0,3-SP3/P00	8022536	11.57	ZKP3-2/S77/S398	8023379	5.3
ZKP3-0,3-SP3/S366	8022557	11.57	ZKP3-2/S90	8007407	5.3
ZKP3-0,3-SP3/S74	8022551	11.57	ZKP3-2/XOR	8007408	5.3
ZKP3-0,3-SP3/S77/S398	8024077	11.57	ZKP3-2-SP3/P00	8013992	11.57
ZKP3-0,3-SP3/S90	8022542	11.57	ZKP3-2-SP3/S366	8022561	11.57
ZKP3-0,3-SP3/XOR	8022545	11.57	ZKP3-2-SP3/S74	8009507	11.57
ZKP3-0,3-WAS3/P00	8007564	11.39	ZKP3-2-SP3/S77/S398	8024081	11.57
ZKP3-0,3-WAS3/S366	8023824	11.39	ZKP3-2-SP3/S90	8009505	11.57
ZKP3-0,3-WAS3/S74	8007567	11.39	ZKP3-2-SP3/XOR	8009506	11.57
ZKP3-0,3-WAS3/S77/S398	8023831	11.39	ZKP3-2-WAS3/P00	8007556	11.39
ZKP3-0,3-WAS3/S90	8007565	11.39	ZKP3-2-WAS3/S366	8023828	11.39
ZKP3-0,3-WAS3/XOR	8007566	11.39	ZKP3-2-WAS3/S74	8007559	11.39
ZKP3-0,6-SP3/P00	8022537	11.57	ZKP3-2-WAS3/S77/S398	8023835	11.39
ZKP3-0,6-SP3/S366	8022558	11.57	ZKP3-2-WAS3/S90	8007557	11.39
ZKP3-0,6-SP3/S74	8022552	11.57	ZKP3-2-WAS3/XOR	8007558	11.39
ZKP3-0,6-SP3/S77/S398	8024078	11.57	ZKP3-5/P00	8007410	5.3
ZKP3-0,6-SP3/S90	8022543	11.57	ZKP3-5/S366	8023377	5.3
ZKP3-0,6-SP3/XOR	8022546	11.57	ZKP3-5/S74	8007413	5.3
ZKP3-0,6-WAS3/P00	8007568	11.39	ZKP3-5/S77/S398	8023380	5.3
ZKP3-0,6-WAS3/S366	8023825	11.39	ZKP3-5/S90	8007411	5.3
ZKP3-0,6-WAS3/S74	8007571	11.39	ZKP3-5/XOR	8007412	5.3
ZKP3-0,6-WAS3/S77/S398	8023833	11.39	ZKP3-5-SP3/P00	8022540	11.57

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ZKP3-5-SP3/S366	8022562	11.57	ZKP4-2/S77/S366	8023382	5.3
ZKP3-5-SP3/S74	8022555	11.57	ZKP4-2/S77/S398	8023385	5.3
ZKP3-5-SP3/S77/S398	8024082	11.57	ZKP4-2/S90	8007419	5.3
ZKP3-5-SP3/S90	8021228	11.57	ZKP4-2/XOR	8007420	5.3
ZKP3-5-SP3/XOR	8022549	11.57	ZKP4-2-SP4/P00	8022636	11.58
ZKP3-5-WAS3/P00	8007560	11.39	ZKP4-2-SP4/S77/S366	8024088	11.58
ZKP3-5-WAS3/S366	8023829	11.39	ZKP4-2-SP4/S77/S398	8024095	11.58
ZKP3-5-WAS3/S74	8007563	11.39	ZKP4-2-SP4/S90	8022643	11.58
ZKP3-5-WAS3/S77/S398	8023836	11.39	ZKP4-2-SP4/XOR	8022650	11.58
ZKP3-5-WAS3/S90	8007561	11.39	ZKP4-2-WAS4/P00	8007578	11.40
ZKP3-5-WAS3/XOR	8007562	11.39	ZKP4-2-WAS4/S77/S366	8023842	11.40
ZKP4-0,3-SP4/P00	8013411	11.58	ZKP4-2-WAS4/S77/S398	8023849	11.40
ZKP4-0,3-SP4/S77/S366	8024084	11.58	ZKP4-2-WAS4/S90	8007579	11.40
ZKP4-0,3-SP4/S77/S398	8024091	11.58	ZKP4-2-WAS4/XOR	8009471	11.40
ZKP4-0,3-SP4/S90	8022639	11.58	ZKP4-5/P00	8007421	5.3
ZKP4-0,3-SP4/XOR	8022646	11.58	ZKP4-5/S77/S366	8023383	5.3
ZKP4-0,3-WAS4/P00	8007582	11.40	ZKP4-5/S77/S398	8023386	5.3
ZKP4-0,3-WAS4/S77/S366	8023838	11.40	ZKP4-5/S90	8007422	5.3
ZKP4-0,3-WAS4/S77/S398	8023845	11.40	ZKP4-5/XOR	8007423	5.3
ZKP4-0,3-WAS4/S90	8007583	11.40	ZKP4-5-SP4/P00	8022637	11.58
ZKP4-0,3-WAS4/XOR	8009473	11.40	ZKP4-5-SP4/S77/S366	8024089	11.58
ZKP4-0,6-SP4/P00	8022633	11.58	ZKP4-5-SP4/S77/S398	8024096	11.58
ZKP4-0,6-SP4/S77/S366	8024085	11.58	ZKP4-5-SP4/S90	8022644	11.58
ZKP4-0,6-SP4/S77/S398	8024092	11.58	ZKP4-5-SP4/XOR	8022651	11.58
ZKP4-0,6-SP4/S90	8022640	11.58	ZKP4-5-WAS4/P00	8007580	11.40
ZKP4-0,6-SP4/XOR	8022647	11.58	ZKP4-5-WAS4/S77/S366	8023843	11.40
ZKP4-0,6-WAS4/P00	8007584	11.40	ZKP4-5-WAS4/S77/S398	8023850	11.40
ZKP4-0,6-WAS4/S77/S366	8023839	11.40	ZKP4-5-WAS4/S90	8007581	11.40
ZKP4-0,6-WAS4/S77/S398	8023846	11.40	ZKP4-5-WAS4/XOR	8009472	11.40
ZKP4-0,6-WAS4/S90	8007585	11.40	ZKP6-10/P00	8007405	5.4
ZKP4-0,6-WAS4/XOR	8009474	11.40	ZKP6-2/P00	8007403	5.4
ZKP4-1,5-SP4/P00	8022635	11.58	ZKP6-5/P00	8007404	5.4
ZKP4-1,5-SP4/S77/S366	8024087	11.58	ZWKP3-0,3-SP3/P00	8024328	11.65
ZKP4-1,5-SP4/S77/S398	8024094	11.58	ZWKP3-0,3-SP3/S366	8025322	11.65
ZKP4-1,5-SP4/S90	8022642	11.58	ZWKP3-0,3-SP3/S74	8025315	11.65
ZKP4-1,5-SP4/XOR	8022649	11.58	ZWKP3-0,3-SP3/S77/S398	8025329	11.65
ZKP4-1,5-WAS4/P00	8007586	11.40	ZWKP3-0,3-SP3/S90	8025301	11.65
ZKP4-1,5-WAS4/S77/S366	8023841	11.40	ZWKP3-0,3-SP3/XOR	8025308	11.65
ZKP4-1,5-WAS4/S77/S398	8023848	11.40	ZWKP3-0,3-WAS3/P00	8007599	11.45
ZKP4-1,5-WAS4/S90	8007587	11.40	ZWKP3-0,3-WAS3/S366	8023908	11.45
ZKP4-1,5-WAS4/XOR	8009475	11.40	ZWKP3-0,3-WAS3/S74	8007602	11.45
ZKP4-10/P00	8007424	5.3	ZWKP3-0,3-WAS3/S77/S398	8023915	11.45
ZKP4-10/S77/S366	8023384	5.3	ZWKP3-0,3-WAS3/S90	8007600	11.45
ZKP4-10/S77/S398	8023387	5.3	ZWKP3-0,3-WAS3/XOR	8007601	11.45
ZKP4-10/S90	8007425	5.3	ZWKP3-0,6-SP3/P00	8024329	11.65
ZKP4-10/XOR	8007426	5.3	ZWKP3-0,6-SP3/S366	8025323	11.65
ZKP4-1-SP4/P00	8022634	11.58	ZWKP3-0,6-SP3/S74	8025316	11.65
ZKP4-1-SP4/S77/S366	8024086	11.58	ZWKP3-0,6-SP3/S77/S398	8025330	11.65
ZKP4-1-SP4/S77/S398	8024093	11.58	ZWKP3-0,6-SP3/S90	8025302	11.65
ZKP4-1-SP4/S90	8022641	11.58	ZWKP3-0,6-SP3/XOR	8025309	11.65
ZKP4-1-SP4/XOR	8022648	11.58	ZWKP3-0,6-WAS3/P00	8007603	11.45
ZKP4-1-WAS4/P00	8007576	11.40	ZWKP3-0,6-WAS3/S366	8023909	11.45
ZKP4-1-WAS4/S77/S366	8023840	11.40	ZWKP3-0,6-WAS3/S74	8007606	11.45
ZKP4-1-WAS4/S77/S398	8023847	11.40	ZWKP3-0,6-WAS3/S77/S398	8023916	11.45
ZKP4-1-WAS4/S90	8007577	11.40	ZWKP3-0,6-WAS3/S90	8007604	11.45
ZKP4-1-WAS4/XOR	8009470	11.40	ZWKP3-0,6-WAS3/XOR	8007605	11.45
ZKP4-2/P00	8007418	5.3	ZWKP3-1,5-SP3/P00	8024331	11.65

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ZWKP3-1,5-SP3/S366	8025325	11.65	ZWKP3-5-SP3/S90	8025306	11.65
ZWKP3-1,5-SP3/S74	8025318	11.65	ZWKP3-5-SP3/XOR	8025313	11.65
ZWKP3-1,5-SP3/S77/S398	8025332	11.65	ZWKP3-5-WAS3/P00	8007596	11.45
ZWKP3-1,5-SP3/S90	8025304	11.65	ZWKP3-5-WAS3/S366	8023913	11.45
ZWKP3-1,5-SP3/XOR	8025311	11.65	ZWKP3-5-WAS3/S74	8007598	11.45
ZWKP3-1,5-WAS3/P00	8007607	11.45	ZWKP3-5-WAS3/S77/S398	8023920	11.45
ZWKP3-1,5-WAS3/S366	8023911	11.45	ZWKP3-5-WAS3/S90	8007597	11.45
ZWKP3-1,5-WAS3/S74	8007610	11.45	ZWKP3-5-WAS3/XOR	8009476	11.45
ZWKP3-1,5-WAS3/S77/S398	8023918	11.45	ZWKP3P2-0,3-SP3/P00	8025448	11.71
ZWKP3-1,5-WAS3/S90	8007608	11.45	ZWKP3P2-0,3-SP3/S366	8025596	11.71
ZWKP3-1,5-WAS3/XOR	8007609	11.45	ZWKP3P2-0,3-SP3/S74	8025471	11.71
ZWKP3-10/P00	8007435	5.10	ZWKP3P2-0,3-SP3/S77/S398	8025603	11.71
ZWKP3-10/S366	8023443	5.10	ZWKP3P2-0,3-SP3/S90	8025455	11.71
ZWKP3-10/S398	8018062	5.10	ZWKP3P2-0,3-SP3/XOR	8025464	11.71
ZWKP3-10/S74	8007438	5.10	ZWKP3P2-0,3-WAS3/P00	8011426	11.51
ZWKP3-10/S90	8007436	5.10	ZWKP3P2-0,3-WAS3/S366	8024013	11.51
ZWKP3-10/XOR	8007437	5.10	ZWKP3P2-0,3-WAS3/S74	8011429	11.51
ZWKP3-1-SP3/P00	8024330	11.65	ZWKP3P2-0,3-WAS3/S77/S398	8024020	11.51
ZWKP3-1-SP3/S366	8025324	11.65	ZWKP3P2-0,3-WAS3/S90	8011427	11.51
ZWKP3-1-SP3/S74	8025317	11.65	ZWKP3P2-0,3-WAS3/XOR	8011428	11.51
ZWKP3-1-SP3/S77/S398	8025331	11.65	ZWKP3P2-0,6-SP3/P00	8025449	11.71
ZWKP3-1-SP3/S90	8025303	11.65	ZWKP3P2-0,6-SP3/S366	8025597	11.71
ZWKP3-1-SP3/XOR	8025310	11.65	ZWKP3P2-0,6-SP3/S74	8025472	11.71
ZWKP3-1-WAS3/P00	8007588	11.45	ZWKP3P2-0,6-SP3/S77/S398	8025604	11.71
ZWKP3-1-WAS3/S366	8023910	11.45	ZWKP3P2-0,6-SP3/S90	8025456	11.71
ZWKP3-1-WAS3/S74	8007591	11.45	ZWKP3P2-0,6-SP3/XOR	8025465	11.71
ZWKP3-1-WAS3/S77/S398	8023917	11.45	ZWKP3P2-0,6-WAS3/P00	8011430	11.51
ZWKP3-1-WAS3/S90	8007589	11.45	ZWKP3P2-0,6-WAS3/S366	8024014	11.51
ZWKP3-1-WAS3/XOR	8007590	11.45	ZWKP3P2-0,6-WAS3/S74	8011433	11.51
ZWKP3-2/P00	8007427	5.10	ZWKP3P2-0,6-WAS3/S77/S398	8024021	11.51
ZWKP3-2/S366	8023441	5.10	ZWKP3P2-0,6-WAS3/S90	8011431	11.51
ZWKP3-2/S398	8018059	5.10	ZWKP3P2-0,6-WAS3/XOR	8011432	11.51
ZWKP3-2/S74	8007430	5.10	ZWKP3P2-1,5-SP3/P00	8025451	11.71
ZWKP3-2/S90	8007428	5.10	ZWKP3P2-1,5-SP3/S366	8025599	11.71
ZWKP3-2/XOR	8007429	5.10	ZWKP3P2-1,5-SP3/S74	8025474	11.71
ZWKP3-2-SP3/P00	8024332	11.65	ZWKP3P2-1,5-SP3/S77/S398	8025606	11.71
ZWKP3-2-SP3/S366	8025326	11.65	ZWKP3P2-1,5-SP3/S90	8025458	11.71
ZWKP3-2-SP3/S74	8025319	11.65	ZWKP3P2-1,5-SP3/XOR	8025467	11.71
ZWKP3-2-SP3/S77/S398	8025333	11.65	ZWKP3P2-1,5-WAS3/P00	8011434	11.51
ZWKP3-2-SP3/S90	8025305	11.65	ZWKP3P2-1,5-WAS3/S366	8024016	11.51
ZWKP3-2-SP3/XOR	8025312	11.65	ZWKP3P2-1,5-WAS3/S74	8011437	11.51
ZWKP3-2-WAS3/P00	8007592	11.45	ZWKP3P2-1,5-WAS3/S77/S398	8024023	11.51
ZWKP3-2-WAS3/S366	8023912	11.45	ZWKP3P2-1,5-WAS3/S90	8011435	11.51
ZWKP3-2-WAS3/S74	8007595	11.45	ZWKP3P2-1,5-WAS3/XOR	8011436	11.51
ZWKP3-2-WAS3/S77/S398	8023919	11.45	ZWKP3P2-10/P00	8010385	5.14
ZWKP3-2-WAS3/S90	8007593	11.45	ZWKP3P2-10/S366	8023474	5.14
ZWKP3-2-WAS3/XOR	8007594	11.45	ZWKP3P2-10/S74	8010387	5.14
ZWKP3-5/P00	8007431	5.10	ZWKP3P2-10/S77/S398	8023477	5.14
ZWKP3-5/S366	8023442	5.10	ZWKP3P2-10/S90	8009449	5.14
ZWKP3-5/S74	8007434	5.10	ZWKP3P2-10/XOR	8010386	5.14
ZWKP3-5/S77/S398	8023444	5.10	ZWKP3P2-1-SP3/P00	8025450	11.71
ZWKP3-5/S90	8007432	5.10	ZWKP3P2-1-SP3/S366	8025598	11.71
ZWKP3-5/XOR	8007433	5.10	ZWKP3P2-1-SP3/S74	8025473	11.71
ZWKP3-5-SP3/P00	8024333	11.65	ZWKP3P2-1-SP3/S77/S398	8025605	11.71
ZWKP3-5-SP3/S366	8025327	11.65	ZWKP3P2-1-SP3/S90	8025457	11.71
ZWKP3-5-SP3/S74	8025320	11.65	ZWKP3P2-1-SP3/XOR	8025466	11.71
ZWKP3-5-SP3/S77/S398	8025334	11.65	ZWKP3P2-1-WAS3/P00	8011414	11.51

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ZWKP3P2-1-WAS3/S366	8024015	11.51	ZWKP4-0,6-WAS4/S77/S366	8023923	11.46
ZWKP3P2-1-WAS3/S74	8011417	11.51	ZWKP4-0,6-WAS4/S77/S398	8023930	11.46
ZWKP3P2-1-WAS3/S77/S398	8024022	11.51	ZWKP4-0,6-WAS4/S90	8007620	11.46
ZWKP3P2-1-WAS3/S90	8011415	11.51	ZWKP4-0,6-WAS4/XOR	8009481	11.46
ZWKP3P2-1-WAS3/XOR	8011416	11.51	ZWKP4-1,5-SP4/P00	8025339	11.66
ZWKP3P2-2/P00	8010378	5.14	ZWKP4-1,5-SP4/S77/S366	8025360	11.66
ZWKP3P2-2/S366	8023472	5.14	ZWKP4-1,5-SP4/S77/S398	8025367	11.66
ZWKP3P2-2/S74	8010381	5.14	ZWKP4-1,5-SP4/S90	8025346	11.66
ZWKP3P2-2/S77/S398	8023475	5.14	ZWKP4-1,5-SP4/XOR	8025353	11.66
ZWKP3P2-2/S90	8010379	5.14	ZWKP4-1,5-WAS4/P00	8007621	11.46
ZWKP3P2-2/XOR	8010380	5.14	ZWKP4-1,5-WAS4/S77/S366	8023925	11.46
ZWKP3P2-2-SP3/P00	8025452	11.71	ZWKP4-1,5-WAS4/S77/S398	8023932	11.46
ZWKP3P2-2-SP3/S366	8025600	11.71	ZWKP4-1,5-WAS4/S90	8007622	11.46
ZWKP3P2-2-SP3/S74	8025475	11.71	ZWKP4-1,5-WAS4/XOR	8009482	11.46
ZWKP3P2-2-SP3/S77/S398	8025607	11.71	ZWKP4-10/P00	8007443	5.10
ZWKP3P2-2-SP3/S90	8025459	11.71	ZWKP4-10/S77/S366	8023447	5.10
ZWKP3P2-2-SP3/XOR	8025468	11.71	ZWKP4-10/S77/S398	8023450	5.10
ZWKP3P2-2-WAS3/P00	8011418	11.51	ZWKP4-10/S90	8007444	5.10
ZWKP3P2-2-WAS3/S366	8024017	11.51	ZWKP4-10/XOR	8009444	5.10
ZWKP3P2-2-WAS3/S74	8011421	11.51	ZWKP4-1-SP4/P00	8025338	11.66
ZWKP3P2-2-WAS3/S77/S398	8024024	11.51	ZWKP4-1-SP4/S77/S366	8025359	11.66
ZWKP3P2-2-WAS3/S90	8011419	11.51	ZWKP4-1-SP4/S77/S398	8025366	11.66
ZWKP3P2-2-WAS3/XOR	8011420	11.51	ZWKP4-1-SP4/S90	8025345	11.66
ZWKP3P2-5/P00	8010382	5.14	ZWKP4-1-SP4/XOR	8025352	11.66
ZWKP3P2-5/S366	8023473	5.14	ZWKP4-1-WAS4/P00	8007611	11.46
ZWKP3P2-5/S74	8010384	5.14	ZWKP4-1-WAS4/S77/S366	8023924	11.46
ZWKP3P2-5/S77/S398	8023476	5.14	ZWKP4-1-WAS4/S77/S398	8023931	11.46
ZWKP3P2-5/S90	8009448	5.14	ZWKP4-1-WAS4/S90	8007612	11.46
ZWKP3P2-5/XOR	8010383	5.14	ZWKP4-1-WAS4/XOR	8009477	11.46
ZWKP3P2-5-SP3/P00	8025453	11.71	ZWKP4-2/P00	8007439	5.10
ZWKP3P2-5-SP3/S366	8025601	11.71	ZWKP4-2/S77/S366	8023445	5.10
ZWKP3P2-5-SP3/S74	8025476	11.71	ZWKP4-2/S77/S398	8023448	5.10
ZWKP3P2-5-SP3/S77/S398	8025608	11.71	ZWKP4-2/S90	8007440	5.10
ZWKP3P2-5-SP3/S90	8025460	11.71	ZWKP4-2/XOR	8009442	5.10
ZWKP3P2-5-SP3/XOR	8025469	11.71	ZWKP4-2-SP4/P00	8025340	11.66
ZWKP3P2-5-WAS3/P00	8011422	11.51	ZWKP4-2-SP4/S77/S366	8025361	11.66
ZWKP3P2-5-WAS3/S366	8024018	11.51	ZWKP4-2-SP4/S77/S398	8025368	11.66
ZWKP3P2-5-WAS3/S74	8011425	11.51	ZWKP4-2-SP4/S90	8025347	11.66
ZWKP3P2-5-WAS3/S77/S398	8024025	11.51	ZWKP4-2-SP4/XOR	8025354	11.66
ZWKP3P2-5-WAS3/S90	8011423	11.51	ZWKP4-2-WAS4/P00	8007613	11.46
ZWKP3P2-5-WAS3/XOR	8023768	11.51	ZWKP4-2-WAS4/S77/S366	8023926	11.46
ZWKP4-0,3-SP4/P00	8025336	11.66	ZWKP4-2-WAS4/S77/S398	8023933	11.46
ZWKP4-0,3-SP4/S77/S366	8025357	11.66	ZWKP4-2-WAS4/S90	8007614	11.46
ZWKP4-0,3-SP4/S77/S398	8025364	11.66	ZWKP4-2-WAS4/XOR	8009478	11.46
ZWKP4-0,3-SP4/S90	8025343	11.66	ZWKP4-5/P00	8007441	5.10
ZWKP4-0,3-SP4/XOR	8025350	11.66	ZWKP4-5/S77/S366	8023446	5.10
ZWKP4-0,3-WAS4/P00	8007617	11.46	ZWKP4-5/S77/S398	8023449	5.10
ZWKP4-0,3-WAS4/S77/S366	8023922	11.46	ZWKP4-5/S90	8007442	5.10
ZWKP4-0,3-WAS4/S77/S398	8023929	11.46	ZWKP4-5/XOR	8009443	5.10
ZWKP4-0,3-WAS4/S90	8007618	11.46	ZWKP4-5-SP4/P00	8025341	11.66
ZWKP4-0,3-WAS4/XOR	8009480	11.46	ZWKP4-5-SP4/S77/S366	8025362	11.66
ZWKP4-0,6-SP4/P00	8025337	11.66	ZWKP4-5-SP4/S77/S398	8025369	11.66
ZWKP4-0,6-SP4/S77/S366	8025358	11.66	ZWKP4-5-SP4/S90	8025348	11.66
ZWKP4-0,6-SP4/S77/S398	8025365	11.66	ZWKP4-5-SP4/XOR	8025355	11.66
ZWKP4-0,6-SP4/S90	8025344	11.66	ZWKP4-5-WAS4/P00	8007615	11.46
ZWKP4-0,6-SP4/XOR	8025351	11.66	ZWKP4-5-WAS4/S77/S366	8023927	11.46
ZWKP4-0,6-WAS4/P00	8007619	11.46	ZWKP4-5-WAS4/S77/S398	8023934	11.46

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ZWKP4-5-WAS4/S90	8007616	11.46	ZWKP4P2-2-WAS4/P00	8025237	11.52
ZWKP4-5-WAS4/XOR	8009479	11.46	ZWKP4P2-2-WAS4/S77/S366	8025259	11.52
ZWKP4P2-0,3-SP4/P00	8025478	11.72	ZWKP4P2-2-WAS4/S77/S398	8025266	11.52
ZWKP4P2-0,3-SP4/S77/S366	8025493	11.72	ZWKP4P2-2-WAS4/S90	8025244	11.52
ZWKP4P2-0,3-SP4/S77/S398	8025500	11.72	ZWKP4P2-2-WAS4/XOR	8025252	11.52
ZWKP4P2-0,3-SP4/S90	8025610	11.72	ZWKP4P2-5/P00	8010391	5.14
ZWKP4P2-0,3-SP4/XOR	8025486	11.72	ZWKP4P2-5/S77/S366	8023479	5.14
ZWKP4P2-0,3-WAS4/P00	8025233	11.52	ZWKP4P2-5/S77/S398	8023482	5.14
ZWKP4P2-0,3-WAS4/S77/S366	8025255	11.52	ZWKP4P2-5/S90	8010392	5.14
ZWKP4P2-0,3-WAS4/S77/S398	8025262	11.52	ZWKP4P2-5/XOR	8010393	5.14
ZWKP4P2-0,3-WAS4/S90	8025240	11.52	ZWKP4P2-5-SP4/P00	8025483	11.72
ZWKP4P2-0,3-WAS4/XOR	8025247	11.52	ZWKP4P2-5-SP4/S77/S366	8025498	11.72
ZWKP4P2-0,6-SP4/P00	8025479	11.72	ZWKP4P2-5-SP4/S77/S398	8025505	11.72
ZWKP4P2-0,6-SP4/S77/S366	8025494	11.72	ZWKP4P2-5-SP4/S90	8025616	11.72
ZWKP4P2-0,6-SP4/S77/S398	8025501	11.72	ZWKP4P2-5-SP4/XOR	8025491	11.72
ZWKP4P2-0,6-SP4/S90	8025611	11.72	ZWKP4P2-5-WAS4/P00	8025238	11.52
ZWKP4P2-0,6-SP4/XOR	8025487	11.72	ZWKP4P2-5-WAS4/S77/S366	8025260	11.52
ZWKP4P2-0,6-WAS4/P00	8025234	11.52	ZWKP4P2-5-WAS4/S77/S398	8025267	11.52
ZWKP4P2-0,6-WAS4/S77/S366	8025256	11.52	ZWKP4P2-5-WAS4/S90	8025245	11.52
ZWKP4P2-0,6-WAS4/S77/S398	8025263	11.52	ZWKP4P2-5-WAS4/XOR	8025253	11.52
ZWKP4P2-0,6-WAS4/S90	8025241	11.52			
ZWKP4P2-0,6-WAS4/XOR	8025249	11.52			
ZWKP4P2-1,5-SP4/P00	8025481	11.72			
ZWKP4P2-1,5-SP4/S77/S366	8025496	11.72			
ZWKP4P2-1,5-SP4/S77/S398	8025503	11.72			
ZWKP4P2-1,5-SP4/S90	8025614	11.72			
ZWKP4P2-1,5-SP4/XOR	8025489	11.72			
ZWKP4P2-1,5-WAS4/P00	8025236	11.52			
ZWKP4P2-1,5-WAS4/S77/S366	8025258	11.52			
ZWKP4P2-1,5-WAS4/S77/S398	8025265	11.52			
ZWKP4P2-1,5-WAS4/S90	8025243	11.52			
ZWKP4P2-1,5-WAS4/XOR	8025251	11.52			
ZWKP4P2-10/P00	8010394	5.14			
ZWKP4P2-10/S77/S366	8023480	5.14			
ZWKP4P2-10/S77/S398	8023483	5.14			
ZWKP4P2-10/S90	8010395	5.14			
ZWKP4P2-10/XOR	8010396	5.14			
ZWKP4P2-1-SP4/P00	8025480	11.72			
ZWKP4P2-1-SP4/S77/S366	8025495	11.72			
ZWKP4P2-1-SP4/S77/S398	8025502	11.72			
ZWKP4P2-1-SP4/S90	8025613	11.72			
ZWKP4P2-1-SP4/XOR	8025488	11.72			
ZWKP4P2-1-WAS4/P00	8025235	11.52			
ZWKP4P2-1-WAS4/S77/S366	8025257	11.52			
ZWKP4P2-1-WAS4/S77/S398	8025264	11.52			
ZWKP4P2-1-WAS4/S90	8025242	11.52			
ZWKP4P2-1-WAS4/XOR	8025250	11.52			
ZWKP4P2-2/P00	8010388	5.14			
ZWKP4P2-2/S77/S366	8023478	5.14			
ZWKP4P2-2/S77/S398	8023481	5.14			
ZWKP4P2-2/S90	8010389	5.14			
ZWKP4P2-2/XOR	8010390	5.14			
ZWKP4P2-2-SP4/P00	8025482	11.72			
ZWKP4P2-2-SP4/S77/S366	8025497	11.72			
ZWKP4P2-2-SP4/S77/S398	8025504	11.72			
ZWKP4P2-2-SP4/S90	8025615	11.72			
ZWKP4P2-2-SP4/XOR	8025490	11.72			

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8004804	WASC4	2.38	8006639	WASS3-10/P00	2.33
8004805	WASC5K	2.38	8006641	WASS4-2/P00	2.33
8004806	WWASC4	2.51	8006643	WASS4-5/P00	2.33
8004807	WWASC5	2.51	8006645	WASS4-10/P00	2.33
8004808	WWAKC4	2.28	8006650	WAKS3-2/P00	2.6
8004809	WWAKC5	2.28	8006652	WAKS3-5/P00	2.6
8004811	WAKC4	2.11	8006654	WAKS3-10/P00	2.6
8004815	WAKC5K	2.11	8006656	WAKS4-2/P00	2.6
8004831	SSPC3K	5.22	8006658	WAKS4-5/P00	2.6
8004832	SSPC4K	5.22	8006660	WAKS4-10/P00	2.6
8004833	SKPC3K	5.7	8006665	WAKS3-1-WASS3/P00	11.5
8004834	SKPC4K	5.7	8006667	WAKS3-2-WASS3/P00	11.5
8006556	FK3-0,5	2.133	8006669	WAKS3-5-WASS3/P00	11.5
8006558	FK4-0,5	2.133	8006671	WAKS3-0,3-WASS3/P00	11.5
8006559	FS3-0,5	2.144	8006673	WAKS3-0,6-WASS3/P00	11.5
8006560	FS4	2.146	8006675	WAKS3-1,5-WASS3/P00	11.5
8006561	FS4-0,5	2.144	8006677	WAKS4-1-WASS4/P00	11.6
8006567	FKD3-0,5	2.135	8006679	WAKS4-2-WASS4/P00	11.6
8006569	FKD4-0,5	2.135	8006681	WAKS4-5-WASS4/P00	11.6
8006570	FSD3-0,5	2.147	8006683	WAKS4-0,3-WASS4/P00	11.6
8006572	FSD4-0,5	2.147	8006685	WAKS4-0,6-WASS4/P00	11.6
8006596	FKFDH5	2.138	8006687	WAKS4-1,5-WASS4/P00	11.6
8006598	FS5-0,5	2.144	8006689	SSFP3-2/P00	5.21
8006599	FSD5-0,5	2.147	8006690	SSFP3-2/S90	5.21
8006600	FKFDH4	2.138	8006691	SSFP3-2/XOR	5.21
8006601	FSFDH4	2.150	8006692	SSFP3-2/S74	5.21
8006602	VAS22-2.048-2/P00	10.2	8006693	SSFP3-5/P00	5.21
8006603	VAS22-2.048-2/S90	10.2	8006694	SSFP3-5/S90	5.21
8006604	VAS22-2.048-2-XOR	10.2	8006695	SSFP3-5/XOR	5.21
8006605	VAS22-2.048-5/P00	10.2	8006696	SSFP3-5/S74	5.21
8006606	VAS22-2.048-5/S90	10.2	8006697	SSFP3-10/P00	5.21
8006607	VAS22-2.048-5/XOR	10.2	8006698	SSFP3-10/S90	5.21
8006608	VAS22-2.048-5/S74	10.2	8006699	SSFP3-10/XOR	5.21
8006609	VAS22-2.048-10/P00	10.2	8006700	SSFP3-10/S74	5.21
8006610	VAS22-2.048-10/S90	10.2	8006701	WAK3-1-WAS3/P00	11.1
8006611	VAS22-2.048-10/XOR	10.2	8006702	WAK3-1-WAS3/S90	11.1
8006612	VAS22-0.220-5/S90	10.1	8006703	WAK3-1-WAS3/XOR	11.1
8006613	VAS22-0.220-5/XOR	10.1	8006705	WAK3-1-WAS3/S74	11.1
8006614	VAS22-2.048-1-WAS5.31/S90	11.79	8006706	WAK3-2-WAS3/P00	11.1
8006615	VAS22-2.048-1-WAS5.31/XOR	11.79	8006707	WAK3-2-WAS3/S90	11.1
8006616	VAS22-2.048-1-WAS5.31/S74	11.79	8006708	WAK3-2-WAS3/XOR	11.1
8006617	VAS22-2.048-2-WAS5.31/S90	11.79	8006710	WAK3-2-WAS3/S74	11.1
8006618	VAS22-2.048-2-WAS5.31/XOR	11.79	8006711	WAK3-5-WAS3/P00	11.1
8006619	VAS22-2.048-2-WAS5.31/S74	11.79	8006712	WAK3-5-WAS3/S90	11.1
8006620	VAS22-2.048-5-WAS5.31/S90	11.79	8006713	WAK3-5-WAS3/XOR	11.1
8006621	VAS22-2.048-5-WAS5.31/XOR	11.79	8006715	WAK3-5-WAS3/S74	11.1
8006622	VAS22-2.048-0,3-WAS5.31/S90	11.79	8006716	WAK3-0,3-WAS3/P00	11.1
8006623	VAS22-2.048-0,3-WAS5.31/XOR	11.79	8006717	WAK3-0,3-WAS3/S90	11.1
8006624	VAS22-2.048-0,3-WAS5.31/S74	11.79	8006718	WAK3-0,3-WAS3/XOR	11.1
8006625	VAS22-2.048-0,6-WAS5.31/S90	11.79	8006720	WAK3-0,3-WAS3/S74	11.1
8006626	VAS22-2.048-0,6-WAS5.31/XOR	11.79	8006721	WAK3-0,3-WAS3/P00	11.1
8006627	VAS22-2.048-0,6-WAS5.31/S74	11.79	8006722	WAK3-0,6-WAS3/S90	11.1
8006628	VAS22-2.048-1,5-WAS5.31/S90	11.79	8006723	WAK3-0,6-WAS3/XOR	11.1
8006629	VAS22-2.048-1,5-WAS5.31/XOR	11.79	8006725	WAK3-0,6-WAS3/S74	11.1
8006630	VAS22-2.048-1,5-WAS5.31/S74	11.79	8006726	WAK3-1,5-WAS3/P00	11.1
8006635	WASS3-2/P00	2.33	8006727	WAK3-1,5-WAS3/S90	11.1
8006637	WASS3-5/P00	2.33	8006728	WAK3-1,5-WAS3/XOR	11.1

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8006730	WAK3-1,5-WAS3/S74	11.1	8006813	WWAK3-5-WAS3/P00	11.9
8006731	WAK4-1-WAS4/P00	11.2	8006814	WWAK3-5-WAS3/S90	11.9
8006732	WAK4-1-WAS4/S90	11.2	8006815	WWAK3-5-WAS3/XOR	11.9
8006733	WAK4-1-WAS4/XOR	11.2	8006817	WWAK3-5-WAS3/S74	11.9
8006737	WAK4-1-WAS4/S74	11.2	8006818	WWAK3-0,3-WAS3/P00	11.9
8006738	WAK4-2-WAS4/P00	11.2	8006819	WWAK3-0,3-WAS3/S90	11.9
8006739	WAK4-2-WAS4/S90	11.2	8006820	WWAK3-0,3-WAS3/XOR	11.9
8006740	WAK4-2-WAS4/XOR	11.2	8006822	WWAK3-0,3-WAS3/S74	11.9
8006744	WAK4-2-WAS4/S74	11.2	8006823	WWAK3-0,6-WAS3/P00	11.9
8006745	WAK4-5-WAS4/P00	11.2	8006824	WWAK3-0,6-WAS3/S90	11.9
8006746	WAK4-5-WAS4/S90	11.2	8006825	WWAK3-0,6-WAS3/XOR	11.9
8006747	WAK4-5-WAS4/XOR	11.2	8006827	WWAK3-0,6-WAS3/S74	11.9
8006751	WAK4-5-WAS4/S74	11.2	8006828	WWAK3-1,5-WAS3/P00	11.9
8006752	WAK4-0,3-WAS4/P00	11.2	8006829	WWAK3-1,5-WAS3/S90	11.9
8006753	WAK4-0,3-WAS4/S90	11.2	8006830	WWAK3-1,5-WAS3/XOR	11.9
8006754	WAK4-0,3-WAS4/XOR	11.2	8006832	WWAK3-1,5-WAS3/S74	11.9
8006758	WAK4-0,3-WAS4/S74	11.2	8006833	WWAK4-1-WAS4/P00	11.10
8006759	WAK4-0,6-WAS4/P00	11.2	8006834	WWAK4-1-WAS4/S90	11.10
8006760	WAK4-0,6-WAS4/S90	11.2	8006835	WWAK4-1-WAS4/XOR	11.10
8006761	WAK4-0,6-WAS4/XOR	11.2	8006839	WWAK4-1-WAS4/S74	11.10
8006765	WAK4-0,6-WAS4/S74	11.2	8006840	WWAK4-2-WAS4/P00	11.10
8006766	WAK4-1,5-WAS4/P00	11.2	8006841	WWAK4-2-WAS4/S90	11.10
8006767	WAK4-1,5-WAS4/S90	11.2	8006842	WWAK4-2-WAS4/XOR	11.10
8006768	WAK4-1,5-WAS4/XOR	11.2	8006846	WWAK4-2-WAS4/S74	11.10
8006772	WAK4-1,5-WAS4/S74	11.2	8006847	WWAK4-5-WAS4/P00	11.10
8006773	WAK5-1-WAS5/P00	11.3	8006848	WWAK4-5-WAS4/S90	11.10
8006774	WAK5-1-WAS5/S90	11.3	8006849	WWAK4-5-WAS4/XOR	11.10
8006775	WAK5-1-WAS5/XOR	11.3	8006853	WWAK4-5-WAS4/S74	11.10
8006777	WAK5-1-WAS5/S74	11.3	8006854	WWAK4-0,3-WAS4/P00	11.10
8006778	WAK5-2-WAS5/P00	11.3	8006855	WWAK4-0,3-WAS4/S90	11.10
8006779	WAK5-2-WAS5/S90	11.3	8006856	WWAK4-0,3-WAS4/XOR	11.10
8006780	WAK5-2-WAS5/XOR	11.3	8006860	WWAK4-0,3-WAS4/S74	11.10
8006782	WAK5-2-WAS5/S74	11.3	8006861	WWAK4-0,6-WAS4/P00	11.10
8006783	WAK5-5-WAS5/P00	11.3	8006862	WWAK4-0,6-WAS4/S90	11.10
8006784	WAK5-5-WAS5/S90	11.3	8006863	WWAK4-0,6-WAS4/XOR	11.10
8006785	WAK5-5-WAS5/XOR	11.3	8006867	WWAK4-0,6-WAS4/S74	11.10
8006787	WAK5-5-WAS5/S74	11.3	8006868	WWAK4-1,5-WAS4/P00	11.10
8006788	WAK5-0,3-WAS5/P00	11.3	8006869	WWAK4-1,5-WAS4/S90	11.10
8006789	WAK5-0,3-WAS5/S90	11.3	8006870	WWAK4-1,5-WAS4/XOR	11.10
8006790	WAK5-0,3-WAS5/XOR	11.3	8006874	WWAK4-1,5-WAS4/S74	11.10
8006792	WAK5-0,3-WAS5/S74	11.3	8006875	WWAK5-1-WAS5/P00	11.11
8006793	WAK5-0,6-WAS5/P00	11.3	8006876	WWAK5-1-WAS5/S90	11.11
8006794	WAK5-0,6-WAS5/S90	11.3	8006877	WWAK5-1-WAS5/XOR	11.11
8006795	WAK5-0,6-WAS5/XOR	11.3	8006879	WWAK5-1-WAS5/S74	11.11
8006797	WAK5-0,6-WAS5/S74	11.3	8006880	WWAK5-2-WAS5/P00	11.11
8006798	WAK5-1,5-WAS5/P00	11.3	8006881	WWAK5-2-WAS5/S90	11.11
8006799	WAK5-1,5-WAS5/S90	11.3	8006882	WWAK5-2-WAS5/XOR	11.11
8006800	WAK5-1,5-WAS5/XOR	11.3	8006884	WWAK5-2-WAS5/S74	11.11
8006802	WAK5-1,5-WAS5/S74	11.3	8006885	WWAK5-5-WAS5/P00	11.11
8006803	WWAK3-1-WAS3/P00	11.9	8006886	WWAK5-5-WAS5/S90	11.11
8006804	WWAK3-1-WAS3/S90	11.9	8006887	WWAK5-5-WAS5/XOR	11.11
8006805	WWAK3-1-WAS3/XOR	11.9	8006889	WWAK5-5-WAS5/S74	11.11
8006807	WWAK3-1-WAS3/S74	11.9	8006890	WWAK5-0,3-WAS5/P00	11.11
8006808	WWAK3-2-WAS3/P00	11.9	8006891	WWAK5-0,3-WAS5/S90	11.11
8006809	WWAK3-2-WAS3/S90	11.9	8006892	WWAK5-0,3-WAS5/XOR	11.11
8006810	WWAK3-2-WAS3/XOR	11.9	8006894	WWAK5-0,3-WAS5/S74	11.11
8006812	WWAK3-2-WAS3/S74	11.9	8006895	WWAK5-0,6-WAS5/P00	11.11

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8006896	WWAK5-0,6-WAS5/S90	11.11	8006979	WWAK5-1-WWAS5/XOR	11.19
8006897	WWAK5-0,6-WAS5/XOR	11.11	8006981	WWAK5-1-WWAS5/S74	11.19
8006899	WWAK5-0,6-WAS5/S74	11.11	8006982	WWAK5-2-WWAS5/P00	11.19
8006900	WWAK5-1,5-WAS5/P00	11.11	8006983	WWAK5-2-WWAS5/S90	11.19
8006901	WWAK5-1,5-WAS5/S90	11.11	8006984	WWAK5-2-WWAS5/XOR	11.19
8006902	WWAK5-1,5-WAS5/XOR	11.11	8006986	WWAK5-2-WWAS5/S74	11.19
8006904	WWAK5-1,5-WAS5/S74	11.11	8006987	WWAK5-5-WWAS5/P00	11.19
8006905	WWAK3-1-WWAS3/P00	11.17	8006988	WWAK5-5-WWAS5/S90	11.19
8006906	WWAK3-1-WWAS3/S90	11.17	8006989	WWAK5-5-WWAS5/XOR	11.19
8006907	WWAK3-1-WWAS3/XOR	11.17	8006991	WWAK5-5-WWAS5/S74	11.19
8006909	WWAK3-1-WWAS3/S74	11.17	8006992	WWAK5-0,3-WWAS5/P00	11.19
8006910	WWAK3-2-WWAS3/P00	11.17	8006993	WWAK5-0,3-WWAS5/S90	11.19
8006911	WWAK3-2-WWAS3/S90	11.17	8006994	WWAK5-0,3-WWAS5/XOR	11.19
8006912	WWAK3-2-WWAS3/XOR	11.17	8006996	WWAK5-0,3-WWAS5/S74	11.19
8006914	WWAK3-2-WWAS3/S74	11.17	8006997	WWAK5-0,6-WWAS5/P00	11.19
8006915	WWAK3-5-WWAS3/P00	11.17	8006998	WWAK5-0,6-WWAS5/S90	11.19
8006916	WWAK3-5-WWAS3/S90	11.17	8006999	WWAK5-0,6-WWAS5/XOR	11.19
8006917	WWAK3-5-WWAS3/XOR	11.17	8007001	WWAK5-0,6-WWAS5/S74	11.19
8006919	WWAK3-5-WWAS3/S74	11.17	8007002	WWAK5-1,5-WWAS5/P00	11.19
8006920	WWAK3-0,3-WWAS3/P00	11.17	8007003	WWAK5-1,5-WWAS5/S90	11.19
8006921	WWAK3-0,3-WWAS3/S90	11.17	8007004	WWAK5-1,5-WWAS5/XOR	11.19
8006922	WWAK3-0,3-WWAS3/XOR	11.17	8007006	WWAK5-1,5-WWAS5/S74	11.19
8006924	WWAK3-0,3-WWAS3/S74	11.17	8007007	WAS6-2/P00	2.31
8006925	WWAK3-0,6-WWAS3/P00	11.17	8007008	WAS6-2/S90	2.31
8006926	WWAK3-0,6-WWAS3/S90	11.17	8007009	WAS6-5/P00	2.31
8006927	WWAK3-0,6-WWAS3/XOR	11.17	8007010	WAS6-5/S90	2.31
8006929	WWAK3-0,6-WWAS3/S74	11.17	8007011	WAS6-10/P00	2.31
8006930	WWAK3-1,5-WWAS3/P00	11.17	8007012	WAS6-10/S90	2.31
8006931	WWAK3-1,5-WWAS3/S90	11.17	8007013	WAS8-2/P00	2.32
8006932	WWAK3-1,5-WWAS3/XOR	11.17	8007014	WAS8-2/S90	2.32
8006934	WWAK3-1,5-WWAS3/S74	11.17	8007015	WAS8-5/P00	2.32
8006935	WWAK4-1-WWAS4/P00	11.18	8007016	WAS8-5/S90	2.32
8006936	WWAK4-1-WWAS4/S90	11.18	8007017	WAS8-10/P00	2.32
8006937	WWAK4-1-WWAS4/XOR	11.18	8007018	WAS8-10/S90	2.32
8006941	WWAK4-1-WWAS4/S74	11.18	8007019	WAK6-2/P00	2.2
8006942	WWAK4-2-WWAS4/P00	11.18	8007020	WAK6-2/S90	2.2
8006943	WWAK4-2-WWAS4/S90	11.18	8007021	WAK6-5/P00	2.2
8006944	WWAK4-2-WWAS4/XOR	11.18	8007022	WAK6-5/S90	2.2
8006948	WWAK4-2-WWAS4/S74	11.18	8007023	WAK6-10/P00	2.2
8006949	WWAK4-5-WWAS4/P00	11.18	8007024	WAK6-10/S90	2.2
8006950	WWAK4-5-WWAS4/S90	11.18	8007025	WAK8-2/P00	2.3
8006951	WWAK4-5-WWAS4/XOR	11.18	8007026	WAK8-2/S90	2.3
8006955	WWAK4-5-WWAS4/S74	11.18	8007027	WAK8-5/P00	2.3
8006956	WWAK4-0,3-WWAS4/P00	11.18	8007028	WAK8-5/S90	2.3
8006957	WWAK4-0,3-WWAS4/S90	11.18	8007029	WAK8-10/P00	2.3
8006958	WWAK4-0,3-WWAS4/XOR	11.18	8007030	WAK8-10/S90	2.3
8006962	WWAK4-0,3-WWAS4/S74	11.18	8007031	WAK3-2/P00	2.1
8006963	WWAK4-0,6-WWAS4/P00	11.18	8007032	WAK3-2/S90	2.1
8006964	WWAK4-0,6-WWAS4/S90	11.18	8007033	WAK3-2/XOR	2.1
8006965	WWAK4-0,6-WWAS4/XOR	11.18	8007035	WAK3-2/S74	2.1
8006969	WWAK4-0,6-WWAS4/S74	11.18	8007036	WAK3-5/P00	2.1
8006970	WWAK4-1,5-WWAS4/P00	11.18	8007037	WAK3-5/S90	2.1
8006971	WWAK4-1,5-WWAS4/S90	11.18	8007038	WAK3-5/XOR	2.1
8006972	WWAK4-1,5-WWAS4/XOR	11.18	8007040	WAK3-5/S74	2.1
8006976	WWAK4-1,5-WWAS4/S74	11.18	8007041	WAK3-10/P00	2.1
8006977	WWAK5-1-WWAS5/P00	11.19	8007042	WAK3-10/S90	2.1
8006978	WWAK5-1-WWAS5/S90	11.19	8007043	WAK3-10/XOR	2.1

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8007045	WAK3-10/S74	2.1	8007128	WAS5-10/P00	2.31
8007046	WAK4-2/P00	2.1	8007129	WAS5-10/S90	2.31
8007047	WAK4-2/S90	2.1	8007130	WAS5-10/XOR	2.31
8007048	WAK4-2/XOR	2.1	8007132	WAS5-10/S74	2.31
8007052	WAK4-2/S74	2.1	8007133	WWAK3-2/P00	2.17
8007053	WAK4-5/P00	2.1	8007134	WWAK3-2/S90	2.17
8007054	WAK4-5/S90	2.1	8007135	WWAK3-2/XOR	2.17
8007055	WAK4-5/XOR	2.1	8007137	WWAK3-2/S74	2.17
8007059	WAK4-5/S74	2.1	8007138	WWAK3-5/P00	2.17
8007060	WAK4-10/P00	2.1	8007139	WWAK3-5/S90	2.17
8007061	WAK4-10/S90	2.1	8007140	WWAK3-5/XOR	2.17
8007062	WAK4-10/XOR	2.1	8007142	WWAK3-5/S74	2.17
8007066	WAK4-10/S74	2.1	8007143	WWAK3-10/P00	2.17
8007067	WAK5-2/P00	2.2	8007144	WWAK3-10/S90	2.17
8007068	WAK5-2/S90	2.2	8007145	WWAK3-10/XOR	2.17
8007069	WAK5-2/XOR	2.2	8007147	WWAK3-10/S74	2.17
8007071	WAK5-2/S74	2.2	8007148	WWAK4-2/P00	2.17
8007072	WAK5-5/P00	2.2	8007149	WWAK4-2/S90	2.17
8007073	WAK5-5/S90	2.2	8007150	WWAK4-2/XOR	2.17
8007074	WAK5-5/XOR	2.2	8007154	WWAK4-2/S74	2.17
8007076	WAK5-5/S74	2.2	8007155	WWAK4-5/P00	2.17
8007077	WAK5-10/P00	2.2	8007156	WWAK4-5/S90	2.17
8007078	WAK5-10/S90	2.2	8007157	WWAK4-5/XOR	2.17
8007079	WAK5-10/XOR	2.2	8007161	WWAK4-5/S74	2.17
8007081	WAK5-10/S74	2.2	8007162	WWAK4-10/P00	2.17
8007082	WAS3-2/P00	2.30	8007163	WWAK4-10/S90	2.17
8007083	WAS3-2/S90	2.30	8007164	WWAK4-10/XOR	2.17
8007084	WAS3-2/XOR	2.30	8007168	WWAK4-10/S74	2.17
8007086	WAS3-2/S74	2.30	8007169	WWAK5-2/P00	2.18
8007087	WAS3-5/P00	2.30	8007170	WWAK5-2/S90	2.18
8007088	WAS3-5/S90	2.30	8007171	WWAK5-2/XOR	2.18
8007089	WAS3-5/XOR	2.30	8007173	WWAK5-2/S74	2.18
8007091	WAS3-5/S74	2.30	8007174	WWAK5-5/P00	2.18
8007092	WAS3-10/P00	2.30	8007175	WWAK5-5/S90	2.18
8007093	WAS3-10/S90	2.30	8007176	WWAK5-5/XOR	2.18
8007094	WAS3-10/XOR	2.30	8007178	WWAK5-5/S74	2.18
8007096	WAS3-10/S74	2.30	8007179	WWAK5-10/P00	2.18
8007097	WAS4-2/P00	2.30	8007180	WWAK5-10/S90	2.18
8007098	WAS4-2/S90	2.30	8007181	WWAK5-10/XOR	2.18
8007099	WAS4-2/XOR	2.30	8007183	WWAK5-10/S74	2.18
8007103	WAS4-2/S74	2.30	8007184	WWAS3-2/P00	2.44
8007104	WAS4-5/P00	2.30	8007185	WWAS3-2/S90	2.44
8007105	WAS4-5/S90	2.30	8007186	WWAS3-2/XOR	2.44
8007106	WAS4-5/XOR	2.30	8007188	WWAS3-2/S74	2.44
8007110	WAS4-5/S74	2.30	8007189	WWAS3-5/P00	2.44
8007111	WAS4-10/P00	2.30	8007190	WWAS3-5/S90	2.44
8007112	WAS4-10/S90	2.30	8007191	WWAS3-5/XOR	2.44
8007113	WAS4-10/XOR	2.30	8007193	WWAS3-5/S74	2.44
8007117	WAS4-10/S74	2.30	8007194	WWAS3-10/P00	2.44
8007118	WAS5-2/P00	2.31	8007195	WWAS3-10/S90	2.44
8007119	WAS5-2/S90	2.31	8007196	WWAS3-10/XOR	2.44
8007120	WAS5-2/XOR	2.31	8007198	WWAS3-10/S74	2.44
8007122	WAS5-2/S74	2.31	8007199	WWAS4-2/P00	2.44
8007123	WAS5-5/P00	2.31	8007200	WWAS4-2/S90	2.44
8007124	WAS5-5/S90	2.31	8007201	WWAS4-2/XOR	2.44
8007125	WAS5-5/XOR	2.31	8007205	WWAS4-2/S74	2.44
8007127	WAS5-5/S74	2.31	8007206	WWAS4-5/P00	2.44

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8007207	WWAS4-5/S90	2.44	8007285	KP3-10/P00	5.1
8007208	WWAS4-5/XOR	2.44	8007286	KP3-10/S90	5.1
8007212	WWAS4-5/S74	2.44	8007287	KP3-10/XOR	5.1
8007213	WWAS4-10/P00	2.44	8007288	KP3-10/S74	5.1
8007214	WWAS4-10/S90	2.44	8007289	KP4-2/P00	5.1
8007215	WWAS4-10/XOR	2.44	8007290	KP4-2/S90	5.1
8007219	WWAS4-10/S74	2.44	8007291	KP4-5/P00	5.1
8007220	WWAS5-2/P00	2.45	8007292	KP4-5/S90	5.1
8007221	WWAS5-2/S90	2.45	8007293	KP4-10/P00	5.1
8007222	WWAS5-2/XOR	2.45	8007294	KP4-10/S90	5.1
8007224	WWAS5-2/S74	2.45	8007295	SP3-2/P00	5.17
8007225	WWAS5-5/P00	2.45	8007296	SP3-2/S90	5.17
8007226	WWAS5-5/S90	2.45	8007297	SP3-2/XOR	5.17
8007227	WWAS5-5/XOR	2.45	8007298	SP3-2/S74	5.17
8007229	WWAS5-5/S74	2.45	8007299	SP3-5/P00	5.17
8007230	WWAS5-10/P00	2.45	8007300	SP3-5/S90	5.17
8007231	WWAS5-10/S90	2.45	8007301	SP3-5/XOR	5.17
8007232	WWAS5-10/XOR	2.45	8007302	SP3-5/S74	5.17
8007234	WWAS5-10/S74	2.45	8007303	SP3-10/P00	5.17
8007235	WAK3P2-2/P00	2.5	8007304	SP3-10/S90	5.17
8007236	WAK3P2-2/S90	2.5	8007305	SP3-10/XOR	5.17
8007237	WAK3P2-2/XOR	2.5	8007306	SP3-10/S74	5.17
8007239	WAK3P2-2/S74	2.5	8007307	SP4-2/P00	5.17
8007240	WAK3P2-5/P00	2.5	8007308	SP4-2/S90	5.17
8007241	WAK3P2-5/S90	2.5	8007309	SP4-5/P00	5.17
8007242	WAK3P2-5/XOR	2.5	8007310	SP4-5/S90	5.17
8007244	WAK3P2-5/S74	2.5	8007311	SP4-10/P00	5.17
8007245	WAK3P2-10/P00	2.5	8007312	SP4-10/S90	5.17
8007246	WAK3P2-10/S90	2.5	8007313	WKP3-2/P00	5.9
8007247	WAK3P2-10/XOR	2.5	8007314	WKP3-2/S90	5.9
8007249	WAK3P2-10/S74	2.5	8007315	WKP3-2/XOR	5.9
8007250	WAK4P2-2/P00	2.5	8007316	WKP3-2/S74	5.9
8007251	WAK4P2-2/S90	2.5	8007317	WKP3-5/P00	5.9
8007252	WAK4P2-2/XOR	2.5	8007318	WKP3-5/S90	5.9
8007256	WAK4P2-2/S74	2.5	8007319	WKP3-5/XOR	5.9
8007257	WAK4P2-5/P00	2.5	8007320	WKP3-5/S74	5.9
8007258	WAK4P2-5/S90	2.5	8007321	WKP3-10/P00	5.9
8007259	WAK4P2-5/XOR	2.5	8007322	WKP3-10/S90	5.9
8007263	WAK4P2-5/S74	2.5	8007323	WKP3-10/XOR	5.9
8007264	WAK4P2-10/P00	2.5	8007324	WKP3-10/S74	5.9
8007265	WAK4P2-10/S90	2.5	8007325	WKP4-2/P00	5.9
8007266	WAK4P2-10/XOR	2.5	8007326	WKP4-2/S90	5.9
8007270	WAK4P2-10/S74	2.5	8007327	WKP4-5/P00	5.9
8007271	SP6-2/P00	5.18	8007328	WKP4-5/S90	5.9
8007272	SP6-5/P00	5.18	8007329	WKP4-10/P00	5.9
8007273	SP6-10/P00	5.18	8007330	WKP4-10/S90	5.9
8007274	KP6-2/P00	5.2	8007331	SKP3-2/P00	5.5
8007275	KP6-5/P00	5.2	8007332	SKP3-2/S90	5.5
8007276	KP6-10/P00	5.2	8007333	SKP3-2/XOR	5.5
8007277	KP3-2/P00	5.1	8007334	SKP3-2/S74	5.5
8007278	KP3-2/S90	5.1	8007335	SKP3-5/P00	5.5
8007279	KP3-2/XOR	5.1	8007336	SKP3-5/S90	5.5
8007280	KP3-2/S74	5.1	8007337	SKP3-5/XOR	5.5
8007281	KP3-5/P00	5.1	8007338	SKP3-5/S74	5.5
8007282	KP3-5/S90	5.1	8007339	SKP3-10/P00	5.5
8007283	KP3-5/XOR	5.1	8007340	SKP3-10/S90	5.5
8007284	KP3-5/S74	5.1	8007341	SKP3-10/XOR	5.5

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8007342	SKP3-10/S74	5.5	8007399	SWSP4-5/P00	5.25
8007343	SKP4-2/P00	5.5	8007400	SWSP4-5/S90	5.25
8007344	SKP4-2/S90	5.5	8007401	SWSP4-10/P00	5.25
8007345	SKP4-5/P00	5.5	8007402	SWSP4-10/S90	5.25
8007346	SKP4-5/S90	5.5	8007403	ZKP6-2/P00	5.4
8007347	SKP4-10/P00	5.5	8007404	ZKP6-5/P00	5.4
8007348	SKP4-10/S90	5.5	8007405	ZKP6-10/P00	5.4
8007349	SSP3-2/P00	5.19	8007406	ZKP3-2/P00	5.3
8007350	SSP3-2/S90	5.19	8007407	ZKP3-2/S90	5.3
8007351	SSP3-2/XOR	5.19	8007408	ZKP3-2/XOR	5.3
8007352	SSP3-2/S74	5.19	8007409	ZKP3-2/S74	5.3
8007353	SSP3-5/P00	5.19	8007410	ZKP3-5/P00	5.3
8007354	SSP3-5/S90	5.19	8007411	ZKP3-5/S90	5.3
8007355	SSP3-5/XOR	5.19	8007412	ZKP3-5/XOR	5.3
8007356	SSP3-5/S74	5.19	8007413	ZKP3-5/S74	5.3
8007357	SSP3-10/P00	5.19	8007414	ZKP3-10/P00	5.3
8007358	SSP3-10/S90	5.19	8007415	ZKP3-10/S90	5.3
8007359	SSP3-10/XOR	5.19	8007416	ZKP3-10/XOR	5.3
8007360	SSP3-10/S74	5.19	8007417	ZKP3-10/S74	5.3
8007361	SSP4-2/P00	5.19	8007418	ZKP4-2/P00	5.3
8007362	SSP4-2/S90	5.19	8007419	ZKP4-2/S90	5.3
8007363	SSP4-5/P00	5.19	8007420	ZKP4-2/XOR	5.3
8007364	SSP4-5/S90	5.19	8007421	ZKP4-5/P00	5.3
8007365	SSP4-10/P00	5.19	8007422	ZKP4-5/S90	5.3
8007366	SSP4-10/S90	5.19	8007423	ZKP4-5/XOR	5.3
8007367	SWKP3-2/P00	5.11	8007424	ZKP4-10/P00	5.3
8007368	SWKP3-2/S90	5.11	8007425	ZKP4-10/S90	5.3
8007369	SWKP3-2/XOR	5.11	8007426	ZKP4-10/XOR	5.3
8007370	SWKP3-2/S74	5.11	8007427	ZWKP3-2/P00	5.10
8007371	SWKP3-5/P00	5.11	8007428	ZWKP3-2/S90	5.10
8007372	SWKP3-5/S90	5.11	8007429	ZWKP3-2/XOR	5.10
8007373	SWKP3-5/XOR	5.11	8007430	ZWKP3-2/S74	5.10
8007374	SWKP3-5/S74	5.11	8007431	ZWKP3-5/P00	5.10
8007375	SWKP3-10/P00	5.11	8007432	ZWKP3-5/S90	5.10
8007376	SWKP3-10/S90	5.11	8007433	ZWKP3-5/XOR	5.10
8007377	SWKP3-10/XOR	5.11	8007434	ZWKP3-5/S74	5.10
8007378	SWKP3-10/S74	5.11	8007435	ZWKP3-10/P00	5.10
8007379	SWKP4-2/P00	5.11	8007436	ZWKP3-10/S90	5.10
8007380	SWKP4-2/S90	5.11	8007437	ZWKP3-10/XOR	5.10
8007381	SWKP4-5/P00	5.11	8007438	ZWKP3-10/S74	5.10
8007382	SWKP4-5/S90	5.11	8007439	ZWKP4-2/P00	5.10
8007383	SWKP4-10/P00	5.11	8007440	ZWKP4-2/S90	5.10
8007384	SWKP4-10/S90	5.11	8007441	ZWKP4-5/P00	5.10
8007385	SWSP3-2/P00	5.25	8007442	ZWKP4-5/S90	5.10
8007386	SWSP3-2/S90	5.25	8007443	ZWKP4-10/P00	5.10
8007387	SWSP3-2/XOR	5.25	8007444	ZWKP4-10/S90	5.10
8007388	SWSP3-2/S74	5.25	8007445	SKP3-1-WAS3/P00	11.41
8007389	SWSP3-5/P00	5.25	8007446	SKP3-1-WAS3/S90	11.41
8007390	SWSP3-5/S90	5.25	8007447	SKP3-1-WAS3/XOR	11.41
8007391	SWSP3-5/XOR	5.25	8007448	SKP3-1-WAS3/S74	11.41
8007392	SWSP3-5/S74	5.25	8007449	SKP3-2-WAS3/P00	11.41
8007393	SWSP3-10/P00	5.25	8007450	SKP3-2-WAS3/S90	11.41
8007394	SWSP3-10/S90	5.25	8007451	SKP3-2-WAS3/XOR	11.41
8007395	SWSP3-10/XOR	5.25	8007452	SKP3-2-WAS3/S74	11.41
8007396	SWSP3-10/S74	5.25	8007453	SKP3-5-WAS3-P00	11.41
8007397	SWSP4-2/P00	5.25	8007454	SKP3-5-WAS3/S90	11.41
8007398	SWSP4-2/S90	5.25	8007455	SKP3-5-WAS3/XOR	11.41

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8007456	SKP3-5-WAS3/S74	11.41	8007513	SWKP4-0,6-WAS4/S90	11.48
8007457	SKP3-0,3-WAS3/P00	11.41	8007514	SWKP4-1,5-WAS4/P00	11.48
8007458	SKP3-0,3-WAS3/S90	11.41	8007515	SWKP4-1,5-WAS4/S90	11.48
8007459	SKP3-0,3-WAS3/XOR	11.41	8007552	ZKP3-1-WAS3/P00	11.39
8007460	SKP3-0,3-WAS3/S74	11.41	8007553	ZKP3-1-WAS3/S90	11.39
8007461	SKP3-0,6-WAS3/P00	11.41	8007554	ZKP3-1-WAS3/XOR	11.39
8007462	SKP3-0,6-WAS3/S90	11.41	8007555	ZKP3-1-WAS3/S74	11.39
8007463	SKP3-0,6-WAS3/XOR	11.41	8007556	ZKP3-2-WAS3/P00	11.39
8007464	SKP3-0,6-WAS3/S74	11.41	8007557	ZKP3-2-WAS3/S90	11.39
8007465	SKP3-1,5-WAS3/P00	11.41	8007558	ZKP3-2-WAS3/XOR	11.39
8007466	SKP3-1,5-WAS3/S90	11.41	8007559	ZKP3-2-WAS3/S74	11.39
8007467	SKP3-1,5-WAS3/XOR	11.41	8007560	ZKP3-5-WAS3/P00	11.39
8007468	SKP3-1,5-WAS3/S74	11.41	8007561	ZKP3-5-WAS3/S90	11.39
8007469	SKP4-1-WAS4/P00	11.42	8007562	ZKP3-5-WAS3/XOR	11.39
8007470	SKP4-1-WAS4/S90	11.42	8007563	ZKP3-5-WAS3/S74	11.39
8007471	SKP4-2-WAS4/P00	11.42	8007564	ZKP3-0,3-WAS3/P00	11.39
8007472	SKP4-2-WAS4/S90	11.42	8007565	ZKP3-0,3-WAS3/S90	11.39
8007473	SKP4-5-WAS4/P00	11.42	8007566	ZKP3-0,3-WAS3/XOR	11.39
8007474	SKP4-5-WAS4/S90	11.42	8007567	ZKP3-0,3-WAS3/S74	11.39
8007475	SKP4-0,3-WAS4/P00	11.42	8007568	ZKP3-0,6-WAS3/P00	11.39
8007476	SKP4-0,3-WAS4/S90	11.42	8007569	ZKP3-0,6-WAS3/S90	11.39
8007477	SKP4-0,6-WAS4/P00	11.42	8007570	ZKP3-0,6-WAS3/XOR	11.39
8007478	SKP4-0,6-WAS4/S90	11.42	8007571	ZKP3-0,6-WAS3/S74	11.39
8007479	SKP4-1,5-WAS4/P00	11.42	8007572	ZKP3-1,5-WAS3/P00	11.39
8007480	SKP4-1,5-WAS4/S90	11.42	8007573	ZKP3-1,5-WAS3/S90	11.39
8007481	SWKP3-1-WAS3/P00	11.47	8007574	ZKP3-1,5-WAS3/XOR	11.39
8007482	SWKP3-1-WAS3/S90	11.47	8007575	ZKP3-1,5-WAS3/S74	11.39
8007483	SWKP3-1-WAS3/XOR	11.47	8007576	ZKP4-1-WAS4/P00	11.40
8007484	SWKP3-1-WAS3/S74	11.47	8007577	ZKP4-1-WAS4/S90	11.40
8007485	SWKP3-2-WAS3/P00	11.47	8007578	ZKP4-2-WAS4/P00	11.40
8007486	SWKP3-2-WAS3/S90	11.47	8007579	ZKP4-2-WAS4/S90	11.40
8007487	SWKP3-2-WAS3/XOR	11.47	8007580	ZKP4-5-WAS4/P00	11.40
8007488	SWKP3P2-2-WAS3/S74	11.47	8007581	ZKP4-5-WAS4/S90	11.40
8007489	SWKP3-5-WAS3/P00	11.47	8007582	ZKP4-0,3-WAS4/P00	11.40
8007490	SWKP3-5-WAS3/S90	11.47	8007583	ZKP4-0,3-WAS4/S90	11.40
8007491	SWKP3-5-WAS3/XOR	11.47	8007584	ZKP4-0,6-WAS4/P00	11.40
8007492	SWKP3-5-WAS3/S74	11.47	8007585	ZKP4-0,6-WAS4/S90	11.40
8007493	SWKP3-0,3-WAS3/P00	11.47	8007586	ZKP4-1,5-WAS4/P00	11.40
8007494	SWKP3-0,3-WAS3/S90	11.47	8007587	ZKP4-1,5-WAS4/S90	11.40
8007495	SWKP3-0,3-WAS3/XOR	11.47	8007588	ZWKP3-1-WAS3/P00	11.45
8007496	SWKP3-0,3-WAS3/S74	11.47	8007589	ZWKP3-1-WAS3/S90	11.45
8007497	SWKP3-0,6-WAS3/P00	11.47	8007590	ZWKP3-1-WAS3/XOR	11.45
8007498	SWKP3-0,6-WAS3/S90	11.47	8007591	ZWKP3-1-WAS3/S74	11.45
8007499	SWKP3-0,6-WAS3/XOR	11.47	8007592	ZWKP3-2-WAS3/P00	11.45
8007500	SWKP3-0,6-WAS3/S74	11.47	8007593	ZWKP3-2-WAS3/S90	11.45
8007501	SWKP3-1,5-WAS3/P00	11.47	8007594	ZWKP3-2-WAS3/XOR	11.45
8007502	SWKP3-1,5-WAS3/S90	11.47	8007595	ZWKP3-2-WAS3/S74	11.45
8007503	SWKP3-1,5-WAS3/XOR	11.47	8007596	ZWKP3-5-WAS3/P00	11.45
8007504	SWKP3-1,5-WAS3/S74	11.47	8007597	ZWKP3-5-WAS3/S90	11.45
8007505	SWKP4-1-WAS4/P00	11.48	8007598	ZWKP3-5-WAS3/S74	11.45
8007506	SWKP4-1-WAS4/S90	11.48	8007599	ZWKP3-0,3-WAS3/P00	11.45
8007507	SWKP4-2-WAS4/P00	11.48	8007600	ZWKP3-0,3-WAS3/S90	11.45
8007508	SWKP4-2-WAS4/S90	11.48	8007601	ZWKP3-0,3-WAS3/XOR	11.45
8007509	SWKP4-5-WAS4/P00	11.48	8007602	ZWKP3-0,3-WAS3/S74	11.45
8007510	SWKP4-0,3-WAS4/P00	11.48	8007603	ZWKP3-0,6-WAS3/P00	11.45
8007511	SWKP4-0,3-WAS4/S90	11.48	8007604	ZWKP3-0,6-WAS3/S90	11.45
8007512	SWKP4-0,6-WAS4/P00	11.48	8007605	ZWKP3-0,6-WAS3/XOR	11.45

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8007606	ZWKP3-0,6-WAS3/S74	11.45	8007722	VIS21-2.048-0,6-WAS5.31/P00	11.83
8007607	ZWKP3-1,5-WAS3/P00	11.45	8007723	VIS21-2.048-0,6-WAS5.31/S90	11.83
8007608	ZWKP3-1,5-WAS3/S90	11.45	8007724	VIS21-2.048-0,6-WAS5.31/XOR	11.83
8007609	ZWKP3-1,5-WAS3/XOR	11.45	8007725	VIS21-2.048-0,6-WAS5.31/S74	11.83
8007610	ZWKP3-1,5-WAS3/S74	11.45	8007726	VIS21-2.048-1,5-WAS5.31/P00	11.83
8007611	ZWKP4-1-WAS4/P00	11.46	8007727	VIS21-2.048-1,5-WAS5.31/S90	11.83
8007612	ZWKP4-1-WAS4/S90	11.46	8007728	VIS21-2.048-1,5-WAS5.31/XOR	11.83
8007613	ZWKP4-2-WAS4/P00	11.46	8007729	VIS21-2.048-1,5-WAS5.31/S74	11.83
8007614	ZWKP4-2-WAS4/S90	11.46	8007754	KP3-1-WAS3/P00	11.37
8007615	ZWKP4-5-WAS4/P00	11.46	8007755	KP3-1-WAS3/S90	11.37
8007616	ZWKP4-5-WAS4/S90	11.46	8007756	KP3-1-WAS3/XOR	11.37
8007617	ZWKP4-0,3-WAS4/P00	11.46	8007757	KP3-1-WAS3/S74	11.37
8007618	ZWKP4-0,3-WAS4/S90	11.46	8007758	KP3-2-WAS3/P00	11.37
8007619	ZWKP4-0,6-WAS4/P00	11.46	8007759	KP3-2-WAS3/S90	11.37
8007620	ZWKP4-0,6-WAS4/S90	11.46	8007760	KP3-2-WAS3/XOR	11.37
8007621	ZWKP4-1,5-WAS4/P00	11.46	8007761	KP3-2-WAS3/S74	11.37
8007622	ZWKP4-1,5-WAS4/S90	11.46	8007762	KP3-5-WAS3/P00	11.37
8007658	VBS21-2.048-1-WAS5.31/P00	11.81	8007763	KP3-5-WAS3/S90	11.37
8007659	VBS21-2.048-1-WAS5.31/S90	11.81	8007764	KP3-5-WAS3/XOR	11.37
8007660	VBS21-2.048-1-WAS5.31/XOR	11.81	8007765	KP3-5-WAS3/S74	11.37
8007661	VBS21-2.048-1-WAS5.31/S74	11.81	8007766	KP3-0,3-WAS3/P00	11.37
8007662	VBS21-2.048-2-WAS5.31/P00	11.81	8007767	KP3-0,3-WAS3/S90	11.37
8007663	VBS21-2.048-2-WAS5.31/S90	11.81	8007768	KP3-0,3-WAS3/XOR	11.37
8007664	VBS21-2.048-2-WAS5.31/XOR	11.81	8007769	KP3-0,3-WAS3/S74	11.37
8007665	VBS21-2.048-2-WAS5.31/S74	11.81	8007770	KP3-0,6-WAS3/P00	11.37
8007666	VBS21-2.048-5-WAS5.31/P00	11.81	8007771	KP3-0,6-WAS3/S90	11.37
8007667	VBS21-2.048-5-WAS5.31/S90	11.81	8007772	KP3-0,6-WAS3/XOR	11.37
8007668	VBS21-2.048-5-WAS5.31/XOR	11.81	8007773	KP3-0,6-WAS3/S74	11.37
8007669	VBS21-2.048-5-WAS5.31/S74	11.81	8007774	KP3-1,5-WAS3/P00	11.37
8007670	VBS21-2.048-0,3-WAS5.31/P00	11.81	8007775	KP3-1,5-WAS3/S90	11.37
8007671	VBS21-2.048-0,3-WAS5.31/S90	11.81	8007776	KP3-1,5-WAS3/XOR	11.37
8007672	VBS21-2.048-0,3-WAS5.31/XOR	11.81	8007777	KP3-1,5-WAS3/S74	11.37
8007673	VBS21-2.048-0,3-WAS5.31/S74	11.81	8007778	KP4-1-WAS4/P00	11.38
8007674	VBS21-2.048-0,6-WAS5.31/P00	11.81	8007779	KP4-1-WAS4/S90	11.38
8007675	VBS21-2.048-0,6-WAS5.31/S90	11.81	8007780	KP4-2-WAS4/P00	11.38
8007676	VBS21-2.048-0,6-WAS5.31/XOR	11.81	8007781	KP4-2-WAS4/S90	11.38
8007677	VBS21-2.048-0,6-WAS5.31/S74	11.81	8007782	KP4-5-WAS4/P00	11.38
8007678	VBS21-2.048-1,5-WAS5.31/P00	11.81	8007783	KP4-5-WAS4/S90	11.38
8007679	VBS21-2.048-1,5-WAS5.31/S90	11.81	8007784	KP4-0,3-WAS4/P00	11.38
8007680	VBS21-2.048-1,5-WAS5.31/XOR	11.81	8007785	KP4-0,3-WAS4/S90	11.38
8007681	VBS21-2.048-1,5-WAS5.31/S74	11.81	8007786	KP4-0,6-WAS4/P00	11.38
8007706	VIS21-2.048-1-WAS5.31/P00	11.83	8007787	KP4-0,6-WAS4/S90	11.38
8007707	VIS21-2.048-1-WAS5.31/S90	11.83	8007788	KP4-1,5-WAS4/P00	11.38
8007708	VIS21-2.048-1-WAS5.31/XOR	11.83	8007789	KP4-1,5-WAS4/S90	11.38
8007709	VIS21-2.048-1-WAS5.31/S74	11.83	8007790	WKP3-1-WAS3/P00	11.43
8007710	VIS21-2.048-2-WAS5.31/P00	11.83	8007791	WKP3-1-WAS3/S90	11.43
8007711	VIS21-2.048-2-WAS5.31/S90	11.83	8007792	WKP3-1-WAS3/XOR	11.43
8007712	VIS21-2.048-2-WAS5.31/XOR	11.83	8007793	WKP3-2-WAS3/P00	11.43
8007713	VIS21-2.048-2-WAS5.31/S74	11.83	8007794	WKP3-2-WAS3/S90	11.43
8007714	VIS21-2.048-5-WAS5.31/P00	11.83	8007795	WKP3-2-WAS3/XOR	11.43
8007715	VIS21-2.048-5-WAS5.31/S90	11.83	8007796	WKP3-2-WAS3/S74	11.43
8007716	VIS21-2.048-5-WAS5.31/XOR	11.83	8007797	WKP3-5-WAS3/P00	11.43
8007717	VIS21-2.048-5-WAS5.31/S74	11.83	8007798	WKP3-5-WAS3/S90	11.43
8007718	VIS21-2.048-0,3-WAS5.31/P00	11.83	8007799	WKP3-5-WAS3/XOR	11.43
8007719	VIS21-2.048-0,3-WAS5.31/S90	11.83	8007800	WKP3-5-WAS3/S74	11.43
8007720	VIS21-2.048-0,3-WAS5.31/XOR	11.83	8007801	WKP3-0,3-WAS3/P00	11.43
8007721	VIS21-2.048-0,3-WAS5.31/S74	11.83	8007802	WKP3-0,3-WAS3/S90	11.43

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8007803	WKP3-0,3-WAS3/XOR	11.43	8007896	VIS21-2.048-10/S74	10.22
8007804	WKP3-0,3-WAS3/S74	11.43	8007897	VIS21-0.220-2/P00	10.21
8007805	WKP3-0,6-WAS3/P00	11.43	8007898	VIS21-0.220-2/S90	10.21
8007806	WKP3-0,6-WAS3/S90	11.43	8007899	VIS21-0.220-2/XOR	10.21
8007807	WKP3-0,6-WAS3/XOR	11.43	8007900	VIS21-0.220-2/S74	10.21
8007808	WKP3-0,6-WAS3/S74	11.43	8007901	VIS21-0.220-5/P00	10.21
8007809	WKP3-1,5-WAS3/P00	11.43	8007902	VIS21-0.220-5/S90	10.21
8007810	WKP3-1,5-WAS3/S90	11.43	8007903	VIS21-0.220-5/XOR	10.21
8007811	WKP3-1,5-WAS3/XOR	11.43	8007904	VIS21-0.220-5/S74	10.21
8007812	WKP3-1,5-WAS3/S74	11.43	8007905	VIS21-0.220-10/P00	10.21
8007813	WKP4-1-WAS4/P00	11.44	8007906	VIS21-0.220-10/S90	10.21
8007814	WKP4-1-WAS4/S90	11.44	8007907	VIS21-0.220-10/XOR	10.21
8007815	WKP4-2-WAS4/P00	11.44	8007908	VIS21-0.220-10/S74	10.21
8007816	WKP4-2-WAS4/S90	11.44	8007909	TBS21-2.048-2/P00	10.20
8007817	WKP4-5-WAS4/P00	11.44	8007910	TBS21-2.048-2/S90	10.20
8007818	WKP4-5-WAS4/S90	11.44	8007911	TBS21-2.048-2/XOR	10.20
8007819	WKP4-0,3-WAS4/P00	11.44	8007912	TBS21-2.048-2/S74	10.20
8007820	WKP4-0,3-WAS4/S90	11.44	8007913	TBS21-2.048-5/P00	10.20
8007821	WKP4-0,6-WAS4/P00	11.44	8007914	TBS21-2.048-5/S90	10.20
8007822	WKP4-0,6-WAS4/S90	11.44	8007915	TBS21-2.048-5/XOR	10.20
8007823	WKP4-1,5-WAS4/P00	11.44	8007916	TBS21-2.048-5/S74	10.20
8007824	WKP4-1,5-WAS4/S90	11.44	8007917	TBS21-2.048-10/P00	10.20
8007861	VBS21-2.048-2/P00	10.16	8007918	TBS21-2.048-10/S90	10.20
8007862	VBS21-2.048-2/S90	10.16	8007919	TBS21-2.048-10/XOR	10.20
8007863	VBS21-2.048-2/XOR	10.16	8007920	TBS21-2.048-10/S74	10.20
8007864	VBS21-2.048-2/S74	10.16	8007921	TBS21-0.220-2/P00	10.19
8007865	VBS21-2.048-5/P00	10.16	8007922	TBS21-0.220-2/S90	10.19
8007866	VBS21-2.048-5/S90	10.16	8007923	TBS21-0.220-2/XOR	10.19
8007867	VBS21-2.048-5/XOR	10.16	8007924	TBS21-0.220-2/S74	10.19
8007868	VBS21-2.048-5/S74	10.16	8007925	TBS21-0.220-5/P00	10.19
8007869	VBS21-2.048-10/P00	10.16	8007926	TBS21-0.220-5/S90	10.19
8007870	VBS21-2.048-10/S90	10.16	8007927	TBS21-0.220-5/XOR	10.19
8007871	VBS21-2.048-10/XOR	10.16	8007928	TBS21-0.220-5/S74	10.19
8007872	VBS21-2.048-10/S74	10.16	8007929	TBS21-0.220-10/P00	10.19
8007873	VBS21-0.220-2/P00	10.15	8007930	TBS21-0.220-10/S90	10.19
8007874	VBS21-0.220-2/S90	10.15	8007931	TBS21-0.220-10/XOR	10.19
8007875	VBS21-0.220-2/XOR	10.15	8007932	TBS21-0.220-10/S74	10.19
8007876	VBS21-0.220-2/S74	10.15	8007933	TIS21-2.048-2/P00	10.26
8007877	VBS21-0.220-5/P00	10.15	8007934	TIS21-2.048-2/S90	10.26
8007878	VBS21-0.220-5/S90	10.15	8007935	TIS21-2.048-2/XOR	10.26
8007879	VBS21-0.220-5/XOR	10.15	8007936	TIS21-2.048-2/S74	10.26
8007880	VBS21-0.220-5/S74	10.15	8007937	TIS21-2.048-5/P00	10.26
8007881	VBS21-0.220-10/P00	10.15	8007938	TIS21-2.048-5/S90	10.26
8007882	VBS21-0.220-10/S90	10.15	8007939	TIS21-2.048-5/XOR	10.26
8007883	VBS21-0.220-10/XOR	10.15	8007940	TIS21-2.048-5/S74	10.26
8007884	VBS21-0.220-10/S74	10.15	8007941	TIS21-2.048-10/P00	10.26
8007885	VIS21-2.048-2/P00	10.22	8007942	TIS21-2.048-10/S90	10.26
8007886	VIS21-2.048-2/S90	10.22	8007943	TIS21-2.048-10/XOR	10.26
8007887	VIS21-2.048-2/XOR	10.22	8007944	TIS21-2.048-10/S74	10.26
8007888	VIS21-2.048-2/S74	10.22	8007945	TIS21-0.220-2/P00	10.25
8007889	VIS21-2.048-5/P00	10.22	8007946	TIS21-0.220-2/S90	10.25
8007890	VIS21-2.048-5/S90	10.22	8007947	TIS21-0.220-2/XOR	10.25
8007891	VIS21-2.048-5/XOR	10.22	8007948	TIS21-0.220-2/S74	10.25
8007892	VIS21-2.048-5/S74	10.22	8007949	TIS21-0.220-5/P00	10.25
8007893	VIS21-2.048-10/P00	10.22	8007950	TIS21-0.220-5/S90	10.25
8007894	VIS21-2.048-10/S90	10.22	8007951	TIS21-0.220-5/XOR	10.25
8007895	VIS21-2.048-10/XOR	10.22	8007952	TIS21-0.220-5/S74	10.25

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8007953	TIS21-0.220-10/P00	10.25	8008010	TCS8.21-2.048-5/S90	10.32
8007954	TIS21-0.220-10/S90	10.25	8008011	TCS8.21-2.048-5/XOR	10.32
8007955	TIS21-0.220-10/XOR	10.25	8008012	TCS8.21-2.048-5/S74	10.32
8007956	TIS21-0.220-10/S74	10.25	8008013	TCS8.21-2.048-10/P00	10.32
8007957	VCS8.21-2.048-2/P00	10.28	8008014	TCS8.21-2.048-10/S90	10.32
8007958	VCS8.21-2.048-2/S90	10.28	8008015	TCS8.21-2.048-10/XOR	10.32
8007959	VCS8.21-2.048-2/XOR	10.28	8008016	TCS8.21-2.048-10/S74	10.32
8007960	VCS8.21-2.048-2/S74	10.28	8008017	TCS8.21-0.220-2/P00	10.31
8007961	VCS8.21-2.048-5/P00	10.28	8008018	TCS8.21-0.220-2/S90	10.31
8007962	VCS8.21-2.048-5/S90	10.28	8008019	TCS8.21-0.220-2/XOR	10.31
8007963	VCS8.21-2.048-5/XOR	10.28	8008020	TCS8.21-0.220-2/S74	10.31
8007964	VCS8.21-2.048-5/S74	10.28	8008021	TCS8.21-0.220-5/P00	10.31
8007965	VCS8.21-2.048-10/P00	10.28	8008022	TCS8.21-0.220-5/S90	10.31
8007966	VCS8.21-2.048-10/S90	10.28	8008023	TCS8.21-0.220-5/XOR	10.31
8007967	VCS8.21-2.048-10/XOR	10.28	8008024	TCS8.21-0.220-5/S74	10.31
8007968	VCS8.21-2.048-10/S74	10.28	8008025	TCS8.21-0.220-10/P00	10.31
8007969	VCS8.21-0.220-2/P00	10.27	8008026	TCS8.21-0.220-10/S90	10.31
8007970	VCS8.21-0.220-2/S90	10.27	8008027	TCS8.21-0.220-10/XOR	10.31
8007971	VCS8.21-0.220-2/XOR	10.27	8008028	TCS8.21-0.220-10/S74	10.31
8007972	VCS8.21-0.220-2/S74	10.27	8008029	TCS9.21-2.048-2/P00	10.38
8007973	VCS8.21-0.220-5/P00	10.27	8008030	TCS9.21-2.048-2/S90	10.38
8007974	VCS8.21-0.220-5/S90	10.27	8008031	TCS9.21-2.048-2/XOR	10.38
8007975	VCS8.21-0.220-5/XOR	10.27	8008032	TCS9.21-2.048-2/S74	10.38
8007976	VCS8.21-0.220-5/S74	10.27	8008033	TCS9.21-2.048-5/P00	10.38
8007977	VCS8.21-0.220-10/P00	10.27	8008034	TCS9.21-2.048-5/S90	10.38
8007978	VCS8.21-0.220-10/S90	10.27	8008035	TCS9.21-2.048-5/XOR	10.38
8007979	VCS8.21-0.220-10/XOR	10.27	8008036	TCS9.21-2.048-5/S74	10.38
8007980	VCS8.21-0.220-10/S74	10.27	8008037	TCS9.21-2.048-10/P00	10.38
8007981	VCS9.21-2.048-2/P00	10.34	8008038	TCS9.21-2.048-10/S90	10.38
8007982	VCS9.21-2.048-2/S90	10.34	8008039	TCS9.21-2.048-10/XOR	10.38
8007983	VCS9.21-2.048-2/XOR	10.34	8008040	TCS9.21-2.048-10/S74	10.38
8007984	VCS9.21-2.048-2/S74	10.34	8008041	TCS9.21-0.220-2/P00	10.37
8007985	VCS9.21-2.048-5/P00	10.34	8008042	TCS9.21-0.220-2/S90	10.37
8007986	VCS9.21-2.048-5/S90	10.34	8008043	TCS9.21-0.220-2/XOR	10.37
8007987	VCS9.21-2.048-5/XOR	10.34	8008044	TCS9.21-0.220-2/S74	10.37
8007988	VCS9.21-2.048-5/S74	10.34	8008045	TCS9.21-0.220-5/P00	10.37
8007989	VCS9.21-2.048-10/P00	10.34	8008046	TCS9.21-0.220-5/S90	10.37
8007990	VCS9.21-2.048-10/S90	10.34	8008047	TCS9.21-0.220-5/XOR	10.37
8007991	VCS9.21-2.048-10/XOR	10.34	8008048	TCS9.21-0.220-5/S74	10.37
8007992	VCS9.21-2.048-10/S74	10.34	8008049	TCS9.21-0.220-10/P00	10.37
8007993	VCS9.21-0.220-2/P00	10.33	8008050	TCS9.21-0.220-10/S90	10.37
8007994	VCS9.21-0.220-2/S90	10.33	8008051	TCS9.21-0.220-10/XOR	10.37
8007995	VCS9.21-0.220-2/XOR	10.33	8008052	TCS9.21-0.220-10/S74	10.37
8007996	VCS9.21-0.220-2/S74	10.33	8008053	FSM4-2SKP3-0,3/0,3/P00	12.21
8007997	VCS9.21-0.220-5/P00	10.33	8008054	FSM4-2SKP3-0,3/0,3/S90	12.21
8007998	VCS9.21-0.220-5/S90	10.33	8008055	FSM4-2SKP3-0,3/0,3/XOR	12.21
8007999	VCS9.21-0.220-5/XOR	10.33	8008056	FSM4-2SKP3-0,3/0,3/S74	12.21
8008000	VCS9.21-0.220-5/S74	10.33	8008057	FSM4-2SKP3-0,6/0,6/P00	12.21
8008001	VCS9.21-0.220-10/P00	10.33	8008058	FSM4-2SKP3-0,6/0,6/S90	12.21
8008002	VCS9.21-0.220-10/S90	10.33	8008059	FSM4-2SKP3-0,6/0,6/XOR	12.21
8008003	VCS9.21-0.220-10/XOR	10.33	8008060	FSM4-2SKP3-0,6/0,6/S74	12.21
8008004	VCS9.21-0.220-10/S74	10.33	8008061	FSM4-2SKP3-1,5/1,5/P00	12.21
8008005	TCS8.21-2.048-2/P00	10.32	8008062	FSM4-2SKP3-1,5/1,5/S90	12.21
8008006	TCS8.21-2.048-2/S90	10.32	8008063	FSM4-2SKP3-1,5/1,5/XOR	12.21
8008007	TCS8.21-2.048-2/XOR	10.32	8008064	FSM4-2SKP3-1,5/1,5/S74	12.21
8008008	TCS8.21-2.048-2/S74	10.32	8008065	FSM4-2WAK3-0,3/0,3/P00	12.18
8008009	TCS8.21-2.048-5/P00	10.32	8008066	FSM4-2WAK3-0,3/0,3/S90	12.18

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8008067	FSM4-2WAK3-0,3/0,3/XOR	12.18	8008133	FKM4-2SSP3-0,6/0,6/S74	12.20
8008069	FSM4-2WAK3-0,3/0,3/S74	12.18	8008134	FKM4-2SSP3-1,5/1,5/P00	12.20
8008070	FSM4-2WAK3-0,6/0,6/P00	12.18	8008135	FKM4-2SSP3-1,5/1,5/S90	12.20
8008071	FSM4-2WAK3-0,6/0,6/S90	12.18	8008136	FKM4-2SSP3-1,5/1,5/XOR	12.20
8008072	FSM4-2WAK3-0,6/0,6/XOR	12.18	8008137	FKM4-2SSP3-1,5/1,5/S74	12.20
8008074	FSM4-2WAK3-0,6/0,6/S74	12.18	8008138	FSM4-SKP4	2.159, 5.4
8008075	FSM4-2WAK3-1,5/1,5/P00	12.18	8008140	FSM4-2KP3-0,3/0,3/P00	12.22
8008076	FSM4-2WAK3-1,5/1,5/S90	12.18	8008141	FSM4-2KP3-0,3/0,3/S90	12.22
8008077	FSM4-2WAK3-1,5/1,5/XOR	12.18	8008142	FSM4-2KP3-0,3/0,3/XOR	12.22
8008078	FSM4-2WAK3-1,5/1,5/S74	12.18	8008143	FSM4-2KP3-0,3/0,3/S74	12.22
8008079	FSM3-SKP3	2.158, 5.4	8008144	FSM4-2KP3-0,6/0,6/P00	12.22
8008080	FKM4-2ESP3S	12.6	8008145	FSM4-2KP3-0,6/0,6/S90	12.22
8008081	FSM4-2SKP3	12.7	8008146	FSM4-2KP3-0,6/0,6/XOR	12.22
8008082	SESP4S-2SKP3	12.8	8008147	FSM4-2KP3-0,6/0,6/S74	12.22
8008083	FKM3-ESP3S	2.156, 5.3	8008148	FSM4-2KP3-1,5/1,5/P00	12.22
8008084	FKM4-ESP4S	2.157, 5.3	8008149	FSM4-2KP3-1,5/1,5/S90	12.22
8008085	FKM4-2SP3-0,3/0,3/P00	12.19	8008150	FSM4-2KP3-1,5/1,5/XOR	12.22
8008086	FKM4-2SP3-0,3/0,3/S90	12.19	8008151	FSM4-2KP3-1,5/1,5/S74	12.22
8008087	FKM4-2SP3-0,3/0,3/S74	12.19	8008153	ESP6S	5.32
8008088	FKM4-2SP3-0,6/0,6/P00	12.19	8008155	EWAS4	2.154
8008089	FKM4-2SP3-0,6/0,6/S90	12.19	8008156	EWAS4.5	2.154
8008090	FKM4-2SP3-0,6/0,6/XOR	12.19	8008157	SESP3S	5.33
8008091	FKM4-2SP3-0,6/0,6/S74	12.19	8008158	SESP4S	5.33
8008092	FKM4-2SP3-1,5/1,5/P00	12.19	8008159	ESH3P	5.35
8008093	FKM4-2SP3-1,5/1,5/S90	12.19	8008160	ESH3P4	5.35
8008094	FKM4-2SP3-1,5/1,5/XOR	12.19	8008161	ESH3P3L	5.34
8008095	FKM4-2SP3-1,5/1,5/S74	12.19	8008162	ESH3P4L	5.34
8008096	FKM4-2WAS3-0,3/0,3/P00	12.17	8008163	ESP3S	5.32
8008097	FKM4-2WAS3-0,3/0,3/S90	12.17	8008164	ESP4S	5.32
8008098	FKM4-2WAS3-0,3/0,3/XOR	12.17	8008165	PFS3-0,2	5.30
8008100	FKM4-2WAS3-0,3/0,3/S74	12.17	8008166	PFS4-0,2	5.30
8008101	FKM4-2WAS3-0,6/0,6/P00	12.17	8008167	PFS3F-0,2	5.31
8008102	FKM4-2WAS3-0,6/0,6/S90	12.17	8008168	PFS4F-0,2	5.31
8008103	FKM4-2WAS3-0,6/0,6/XOR	12.17	8008169	PFKS3-0,2	5.28
8008105	FKM4-2WAS3-0,6/0,6/S74	12.17	8008170	PFKS4-0,2	5.28
8008106	FKM4-2WAS3-1,5/1,5/P00	12.17	8008472	FKM3-0,5	2.139
8008107	FKM4-2WAS3-1,5/1,5/S90	12.17	8008473	FKM4-0,5	2.139
8008108	FKM4-2WAS3-1,5/1,5/XOR	12.17	8008483	FSF4.5-0,5	2.151
8008110	FKM4-2WAS3-1,5/1,5/S74	12.17	8008485	FKFD4.5	2.137
8008115	FSM5-2VAS-22-2.048-03/0,3/P00	12.23	8008491	FK5-0,5	2.133
8008116	FSM5-2VAS22-2.048-0,3/0,3/S90	12.23	8008494	FKFD4	2.137
8008117	FSM5-2VAS-22-2.048-0,3/0,3/XOR	12.23	8008496	FSFD4	2.149
8008118	FSM5-2VAS22-2.048-0,3/0,3/S74	12.23	8008526	VAS22-2.048-0,6-WAS5.31/P00	11.79
8008119	FSM5-2VAS22-2.048-0,6/0,6/P00	12.23	8008652	VWAK4P3-1-WAS4/XOR	11.29
8008120	FSM5-2VAS-2.048-0,6/S90	12.23	8008653	VWAK4P3-2-WAS4/XOR	11.29
8008121	FSM5-2VAS22-2.048-0,6/0,6/XOR	12.23	8008654	VWAK4P3-2-WAS4/S74	11.29
8008122	FSM5-2VAS22-2.048-0,6/0,6/S74	12.23	8008656	VWAK4P3-5-WAS4/XOR	11.29
8008123	FSM5-2VAS22-2.048-1,5/1,5/S90	12.23	8008660	VWAK4P3-0,6-WAS4/XOR	11.29
8008124	FSM5-2VAS22-2.048-1,5/1,5/XOR	12.23	8008661	VWAK4P3-0,6-WAS4/S74	11.29
8008125	FSM5-2VAS22-2.048-1,5/1,5/S74	12.23	8008662	VWAK4P3-1,5-WAS4/S74	11.29
8008126	FKM4-2SSP3-0,3/0,3/P00	12.20	8008682	SKP3-1-SSP3/P00	11.59
8008127	FKM4-2SSP3-0,3/0,3/S90	12.20	8008683	SKP3-1-SSP3/S90	11.59
8008128	FKM4-2SSP3-0,3/0,3/XOR	12.20	8008684	SKP3-2-SSP3/P00	11.59
8008129	FKM4-2SSP3-0,3/0,3/S74	12.20	8008685	SKP3-2-SSP3/S90	11.59
8008130	FKM4-2-SSP3-0,6/0,6/P00	12.20	8008686	SKP3-5-SSP3/S90	11.59
8008131	FKM4-2SSP3-0,6/0,6/S90	12.20	8008687	SKP3-0,3-SSP3/P00	11.59
8008132	FKM4-2SSP3-0,6/0,6/XOR	12.20	8008688	SKP3-0,6-SSP3/P00	11.59

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8008689	SKP3-0,6-SSP3/S90	11.59	8009366	WWAK4P3-1-WAS4/S398	11.29
8008690	SKP3-1,5-SSP3/S90	11.59	8009367	WWAK4P3-1-WAS4/S74	11.29
8008692	ZKP3-1-SP3/S90	11.57	8009368	WWAK4P3-2-WAS4/P00	11.29
8008715	FSM4-2WAK3-0,3/0,3/S89/S90	12.14	8009369	WWAK4P3-2-WAS4/S90	11.29
8008720	8FKS5P3	13.9	8009373	WWAK4P3-2-WAS4/S398	11.29
8008742	ESGP3P	5.37	8009375	WWAK4P3-5-WAS4/P00	11.29
8008743	ESGP4P	5.37	8009376	WWAK4P3-5-WAS4/S90	11.29
8008744	ESGP3L	5.36	8009380	WWAK4P3-5-WAS4/S398	11.29
8008745	ESGP4L	5.36	8009381	WWAK4P3-5-WAS4/S74	11.29
8008783	VAS31-2.048-2/XOR	10.6	8009383	WWAK4P3-0,3-WAS4/P00	11.29
8008801	VAS31-0.220-2/P00	10.5	8009384	WWAK4P3-0,3-WAS4/S90	11.29
8008803	VAS31-0.220-5/P00	10.5	8009385	WWAK4P3-0,3-WAS4/XOR	11.29
8008894	TAS31-0.220-5/S90	10.8	8009389	WWAK4P3-0,3-WAS4/S398	11.29
8009028	WAKL3-2/P00	2.10	8009390	WWAK4P3-0,3-WAS4/S74	11.29
8009034	WAKL4-5/P00	2.10	8009391	WWAK4P3-0,6-WAS4/P00	11.29
8009081	VAS22-2.048-0,3-WAS5.31/P00	11.79	8009392	WWAK4P3-0,6-WAS4/S90	11.29
8009238	WWAK3P2-5/P00	2.21	8009396	WWAK4P3-0,6-WAS4/S398	11.29
8009239	WWAK3P2-5/S90	2.21	8009397	WWAK4P3-1,5-WAS4/P00	11.29
8009240	WWAK3P2-5/XOR	2.21	8009398	WWAK4P3-1,5-WAS4/S90	11.29
8009241	WWAK3P2-5/S74	2.21	8009399	WWAK4P3-1,5-WAS4/XOR	11.29
8009242	WWAK3P2-10/P00	2.21	8009403	WWAK4P3-1,5-WAS4/S398	11.29
8009243	WWAK3P2-10/S90	2.21	8009404	WWAK4P3.1-1-WAS4/XOR	11.33
8009244	WWAK3P2-10/XOR	2.21	8009405	WWAK4P3.1-2-WAS4/XOR	11.33
8009245	WWAK3P2-10/S74	2.21	8009411	KP4-2/XOR	5.1
8009246	WWAK4P2-2/S90	2.21	8009412	KP4-5/XOR	5.1
8009247	WWAK4P2-5/P00	2.21	8009413	KP4-10/XOR	5.1
8009248	WWAK4P2-5/S90	2.21	8009414	SP4-2/XOR	5.17
8009249	WWAK4P2-5/XOR	2.21	8009415	SP4-5/XOR	5.17
8009250	WWAK4P2-10/P00	2.21	8009416	SP4-10/XOR	5.17
8009251	WWAK4P2-10/S90	2.21	8009417	WKP4-2/XOR	5.9
8009252	WWAK4P2-10/XOR	2.21	8009418	WKP4-5/XOR	5.9
8009253	WWAK4P3-5/XOR	2.22	8009419	WKP4-10/XOR	5.9
8009254	WWAK5P3.1-10/XOR	2.23	8009420	SKP4-2/XOR	5.5
8009331	WWAK3P2-1-WAS3/S90	11.25	8009421	SKP4-5/XOR	5.5
8009332	WWAK3P2-1-WAS3/XOR	11.25	8009423	SKP4-10/XOR	5.5
8009333	WWAK3P2-1-WAS3/S74	11.25	8009428	SSP4-2/XOR	5.19
8009334	WWAK3P2-2-WAS3/S90	11.25	8009429	SSP4-5/XOR	5.19
8009335	WWAK3P2-2-WAS3/XOR	11.25	8009430	SSP4-10/XOR	5.19
8009336	WWAK3P2-2-WAS3/74	11.25	8009434	SWKP4-2/XOR	5.11
8009338	WWAK3P2-5-WAS3/S90	11.25	8009435	SWKP4-5/XOR	5.11
8009339	WWAK3P2-5-WAS3/XOR	11.25	8009436	SWKP4-10/XOR	5.11
8009340	WWAK3P2-5-WAS3/74	11.25	8009438	SWSP4-2/XOR	5.25
8009341	WWAK3P2-0,3-WAS3/S90	11.25	8009439	SWSP4-5/XOR	5.25
8009343	WWAK3P2-0,6-WAS3/S90	11.25	8009440	SWSP4-10/XOR	5.25
8009344	WWAK3P2-0,6-WAS3/XOR	11.25	8009442	ZWKP4-2/XOR	5.10
8009346	WWAK3P2-0,6-WAS3/74	11.25	8009443	ZWKP4-5/XOR	5.10
8009347	WWAK3P2-1,5-WAS3/S90	11.25	8009444	ZWKP4-10/XOR	5.10
8009348	WWAK3P2-1,5-WAS3/XOR	11.25	8009445	SWKP3P2-5/S90	5.15
8009350	WWAK3P2-1,5-WAS3/S74	11.25	8009446	SWKP3P2-5/XOR	5.15
8009351	WWAK4P2-1-WAS4/XOR	11.26	8009447	SWKP3P2-10/S90	5.15
8009353	WWAK4P2-2-WAS4/XOR	11.26	8009448	ZWKP3P2-5/S90	5.14
8009355	WWAK4P2-2-WAS4/S74	11.26	8009449	ZWKP3P2-10/S90	5.14
8009357	WWAK4P2-1,5-WAS4/S90	11.26	8009451	SKP4-1-WAS4/XOR	11.42
8009358	WWAK4P2-1,5-WAS4/XOR	11.26	8009452	SKP4-2-WAS4/XOR	11.42
8009360	WWAK3P2-2-WWAS3/S74	11.27	8009453	SKP4-5-WAS4/XOR	11.42
8009361	WWAK4P3-1-WAS4/P00	11.29	8009454	SKP4-0,3-WAS4/XOR	11.42
8009362	WWAK4P3-1-WAS4/S90	11.29	8009455	SKP4-0,6-WAS4/XOR	11.42

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8009456	SKP4-1,5-WAS4/XOR	11.42	8009553	FSM4-2SKP3-5/5/XOR	12.21
8009457	SWKP4-1-WAS4/XOR	11.48	8009555	FSM4-2SKP3-5/5/S74	12.21
8009458	SWKP4-2-WAS4/XOR	11.48	8009560	FSM4-2WAK3-1/1/P00	12.18
8009459	SWKP4-5-WAS4/S90	11.48	8009561	FSM4-2WAK3-1/1/S90	12.18
8009460	SWKP4-5-WAS4/XOR	11.48	8009562	FSM4-2WAK3-1/1/XOR	12.18
8009461	SWKP4-0,3-WAS4/XOR	11.48	8009564	FSM4-2WAK3-1/1/S89/P00	12.14
8009462	SWKP4-0,6-WAS4/XOR	11.48	8009565	FSM4-2WAK3-1/1/S89/S74	12.14
8009463	SWKP4-1,5-WAS4/XOR	11.48	8009567	FSM4-2WAK3-1/1/S74	12.18
8009470	ZKP4-1-WAS4/XOR	11.40	8009568	FSM4-2WAK3-1/1/S89/S90	12.14
8009471	ZKP4-2-WAS4/XOR	11.40	8009569	FSM4-2WAK3-1/1/S89/XOR	12.14
8009472	ZKP4-5-WAS4/XOR	11.40	8009570	FSM4-2WAK3-2/2/P00	12.18
8009473	ZKP4-0,3-WAS4/XOR	11.40	8009571	FSM4-2WAK3-2/2/S90	12.18
8009474	ZKP4-0,6-WAS4/XOR	11.40	8009572	FSM4-2WAK3-2/2/XOR	12.18
8009475	ZKP4-1,5-WAS4/XOR	11.40	8009574	FSM4-2WAK3-2/2/S89/P00	12.14
8009476	ZWKP3-5-WAS3/XOR	11.45	8009575	FSM4-2WAK3-2/2/S89/S74	12.14
8009477	ZWKP4-1-WAS4/XOR	11.46	8009577	FSM4-2WAK3-2/2/S74	12.18
8009478	ZWKP4-2-WAS4/XOR	11.46	8009578	FSM4-2WAK3-2/2/S89/S90	12.14
8009479	ZWKP4-5-WAS4/XOR	11.46	8009579	FSM4-2WAK3-2/2/S89/XOR	12.14
8009480	ZWKP4-0,3-WAS4/XOR	11.46	8009580	FSM4-2WAK3-5/5/P00	12.18
8009481	ZWKP4-0,6-WAS4/XOR	11.46	8009581	FSM4-2WAK3-5/5/S90	12.18
8009482	ZWKP4-1,5-WAS4/XOR	11.46	8009582	FSM4-2WAK3-5/5/XOR	12.18
8009490	SWKP3P2-1-WAS3/S90	11.53	8009584	FSM4-2WAK3-5/5/S89/P00	12.14
8009491	SWKP3P2-0,6-WAS3/S90	11.53	8009585	FSM4-2WAK3-5/5/S89/S74	12.14
8009492	SWKP3P2-1,5-WAS3/S90	11.53	8009587	FSM4-2WAK3-5/5/S74	12.18
8009494	SKP3-2-SSP3/XOR	11.59	8009588	FSM4-2WAK3-5/5/S89/S90	12.14
8009495	SKP3-2-SSP3/S74	11.59	8009589	FSM4-2WAK3-5/5/S89/XOR	12.14
8009496	SKP3-0,3-SSP3/S90	11.59	8009590	FSM4-2WAK3-0,3/0,3/S89/P00	12.14
8009498	SKP4-2-SSP4/P00	11.60	8009591	FSM4-2WAK3-0,3/0,3/S89/S74	12.14
8009499	SKP4-2-SSP4/XOR	11.60	8009593	FSM4-2WAK3-0,3/0,3/S89/XOR	12.14
8009500	SKP4-5-SSP4/S90	11.60	8009594	FSM4-2WAK3-0,6/0,6/S89/P00	12.14
8009503	SWKP3-0,3-SSP3/P00	11.67	8009595	FSM4-2WAK3-0,6/0,6/S89/S74	12.14
8009505	ZKP3-2-SP3/S90	11.57	8009597	FSM4-2WAK3-0,6/0,6/S89/S90	12.14
8009506	ZKP3-2-SP3/XOR	11.57	8009598	FSM4-2WAK3-0,6/0,6/S89/XOR	12.14
8009507	ZKP3-2-SP3/S74	11.57	8009600	FSM4-2WAK3-1,5/1,5/S89/P00	12.14
8009508	ZKP3-1,5-SP3/S90	11.57	8009601	FSM4-2WAK3-1,5/1,5/S89/S74	12.14
8009515	KP4-1-WAS4/XOR	11.38	8009603	FSM4-2WAK3-1,5/1,5/S89/S90	12.14
8009516	KP4-2-WAS4/XOR	11.38	8009604	FSM4-2WAK3-1,5/1,5/S89/XOR	12.14
8009517	KP4-5-WAS4/XOR	11.38	8009608	FKM4-2SP3-1/1/P00	12.19
8009518	KP4-0,3-WAS4/XOR	11.38	8009609	FKM4-2SP3-1/1/S90	12.19
8009519	KP4-0,6-WAS4/XOR	11.38	8009610	FKM4-2SP3-1/1/XOR	12.19
8009520	KP4-1,5-WAS4/XOR	11.38	8009611	FKM4-2SP3-1/1/S74	12.19
8009521	WKP4-1-WAS4/XOR	11.44	8009612	FKM4-2SP3-2/2/P00	12.19
8009522	WKP4-2-WAS4/XOR	11.44	8009613	FKM4-2SP3-2/2/S90	12.19
8009523	WKP4-5-WAS4/XOR	11.44	8009614	FKM4-2SP3-2/2/XOR	12.19
8009524	WKP4-0,3-WAS4/XOR	11.44	8009615	FKM4-2SP3-2/2/S74	12.19
8009525	WKP4-0,6-WAS4/XOR	11.44	8009616	FKM4-2SP3-5/5/P00	12.19
8009526	WKP4-1,5-WAS4/XOR	11.44	8009617	FKM4-2SP3-5/5/S90	12.19
8009541	FSM4-2SKP3-1/1/P00	12.21	8009618	FKM4-2SP3-5/5/XOR	12.19
8009542	FSM4-2SKP3-1,0/1,0/S90	12.21	8009619	FKM4-2SP3-5/5/S74	12.19
8009543	FSM4-2SKP3-1/1/XOR	12.21	8009620	FKM4-2SP3-0,3/0,3/XOR	12.19
8009545	FSM4-2SKP3-1/1/S74	12.21	8009622	FKM4-2WAS3-1/1/P00	12.17
8009546	FSM4-2SKP3-2/2/P00	12.21	8009623	FKM4-2WAS3-1/1/S90	12.17
8009547	FSM4-2SKP3-2/2/S90	12.21	8009624	FKM4-2WAS3-1/1/XOR	12.17
8009548	FSM4-2SKP3-2/SXOR	12.21	8009626	FKM4-2WAS3-1/1/S74	12.17
8009550	FSM4-2SKP3-2/2/S74	12.21	8009627	FKM4-2WAS3-2/2/P00	12.17
8009551	FSM4-2SKP3-5/5/P00	12.21	8009628	FKM4-2WAS3-2/2/S90	12.17
8009552	FSM4-2SKP3-5/5/S90	12.21	8009629	FKM4-2WAS3-2/2/XOR	12.17

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8009631	FKM4-2WAS3-2/2/S74	12.17	8009894	WWAK4P2-2/S74	2.21
8009632	FKM4-2WAS3-5/5/P00	12.17	8009900	WWAK4P2-5/S74	2.21
8009633	FKM4-2WAS3-5/5/S90	12.17	8009904	WWAK4P2-10/S74	2.21
8009634	FKM4-2WAS3-5/5/XOR	12.17	8009909	WWAK4P3-2/P00	2.22
8009636	FKM4-2WAS3-5/5/S74	12.17	8009910	WWAK4P3-2/S90	2.22
8009638	FSM5-2VAS22-2.048-1/1/P00	12.23	8009911	WWAK4P3-2/XOR	2.22
8009639	FSM5-2VAS22-2.048-1/1/S90	12.23	8009915	WWAK4P3-2/S74	2.22
8009640	FSM5-2VAS22-2.048-1/1/XOR	12.23	8009916	WWAK4P3-5/P00	2.22
8009642	FSM5-2VAS22-2.048-1/1/S74	12.23	8009917	WWAK4P3-5/S90	2.22
8009643	FSM5-2VAS22-2.048-2/2/P00	12.23	8009921	WWAK4P3-5/S74	2.22
8009644	FSM5-2VAS22-2.048-2,0/2,0/S90	12.23	8009922	WWAK4P3-10/P00	2.22
8009645	FSM5-2VAS22-2.048-2/2/XOR	12.23	8009923	WWAK4P3-10/S90	2.22
8009647	FSM5-2VAS22-2.048-2/2/S74	12.23	8009924	WWAK4P3-10/XOR	2.22
8009648	FSM5-2VAS22-2.048-5/5/P00	12.23	8009928	WWAK4P3-10/S74	2.22
8009649	FSM5-2VAS22-2.048-5/5/S90	12.23	8009930	WWAK4P3.1-2/P00	2.23
8009650	FSM5-2VAS22-2.048-5/5/XOR	12.23	8009932	WWAK4P3.1-2/XOR	2.23
8009652	FSM5-2VAS22-2.048-5/5/S74	12.23	8009936	WWAK4P3.1-2/S74	2.23
8009655	FSM5-2VAS22-2.048-1,5/1,5/P00	12.23	8009938	WWAK4P3.1-5/P00	2.23
8009657	FKM4-2SSP3-1/1/P00	12.20	8009944	WWAK4P3.1-5/S74	2.23
8009658	FKM4-2SSP3-1/1/S90	12.20	8009945	WWAK4P3.1-10/P00	2.23
8009659	FKM4-2SSP3-1/1/XOR	12.20	8009946	WWAK4P3.1-10/S90	2.23
8009661	FKM4-2SSP3-1/1/S74	12.20	8009947	WWAK4P3.1-10/XOR	2.23
8009662	FKM4-2SSP3-2/2/P00	12.20	8009951	WWAK4P3.1-10/S74	2.23
8009663	FKM4-2SSP3-2/2/S90	12.20	8009953	WWAK5P3.1-2/P00	2.23
8009664	FKM4-2SSP3-2/2/XOR	12.20	8009954	WWAK5P3.1-2/S90	2.23
8009666	FKM4-2SSP3-2/2/S74	12.20	8009955	WWAK5P3.1-2/XOR	2.23
8009667	FKM4-2SSP3-5/5/P00	12.20	8009957	WWAK5P3.1-2/S74	2.23
8009668	FKM4-2SSP3-5/5/S90	12.20	8009958	WWAK5P3.1-5/P00	2.23
8009669	FKM4-2SSP3-5/5/XOR	12.20	8009959	WWAK5P3.1-5/S90	2.23
8009671	FKM4-2SSP3-5/5/S74	12.20	8009960	WWAK5P3.1-5/XOR	2.23
8009675	FKM4-FKM4-FSM4	12.13	8009962	WWAK5P3.1-5/S74	2.23
8009676	FSM4-2KP3-1/1/P00	12.22	8009963	WWAK5P3.1-10/P00	2.23
8009677	FSM4-2KP3-1/1/S90	12.22	8009964	WWAK5P3.1-10/S90	2.23
8009678	FSM4-2KP3-1/1/XOR	12.22	8009966	WWAK5P3.1-10/S74	2.23
8009680	FSM4-2KP3-1/1/S74	12.22	8009967	VASD41-4.048-2/P00	10.7
8009681	FSM4-2KP3-2/2/P00	12.22	8009968	VASD41-4.048-5/P00	10.7
8009682	FSM4-2KP3-2/2/S90	12.22	8009970	TIS21-2.048-1-WAS5.31/XOR	11.84
8009683	FSM4-2KP3-2/2/XOR	12.22	8010077	WWAK4P3.1-5/S90	2.23
8009685	FSM4-2KP3-2/2/S74	12.22	8010081	SWKP4P2-5/S90	5.15
8009686	FSM4-2KP3-5/5/P00	12.22	8010149	VASD41-4.048-1-WAS5/P00	11.80
8009687	FSM4-2KP3-5/5/S90	12.22	8010150	VASD41-4.048-1-WAS5/S90	11.80
8009688	FSM4-2KP3-5/5/XOR	12.22	8010151	VASD41-4.048-1-WAS5/XOR	11.80
8009690	FSM4-2KP3-5/5/S74	12.22	8010154	VASD41-4.048-1-WAS5/S74	11.80
8009695	KP3-1-SP3/S90	11.55	8010155	VASD41-4.048-2-WAS5/P00	11.80
8009696	KP3-2-SP3/P00	11.55	8010156	VASD41-4.048-2-WAS5/S90	11.80
8009697	KP3-2-SP3/S90	11.55	8010157	VASD41-4.048-2-WAS5/XOR	11.80
8009698	KP3-2-SP3/XOR	11.55	8010163	VASD41-4.048-2-WAS5/S74	11.80
8009699	KP3-2-SP3/S74	11.55	8010164	VASD41-4.048-5-WAS5/P00	11.80
8009700	KP3-5-SP3/P00	11.55	8010165	VASD41-4.048-5-WAS5/S90	11.80
8009701	KP3-0,3-SP3/S90	11.55	8010166	VASD41-4.048-5-WAS5/XOR	11.80
8009702	KP3-0,6-SP3/S90	11.55	8010168	VASD41-4.048-5-WAS5/S74	11.80
8009703	KP3-1,5-SP3/S90	11.55	8010169	VASD41-4.048-0,3-WAS5/P00	11.80
8009729	PFKA4	5.29	8010170	VASD41-4.048-0,3-WAS5/S90	11.80
8009736	EWAS6	2.155	8010171	VASD41-4.048-0,3-WAS5/XOR	11.80
8009737	EWAS8	2.155	8010174	VASD41-4.048-0,3-WAS5/S74	11.80
8009889	WWAK4P2-2/P00	2.21	8010175	VASD41-4.048-0,6-WAS5/P00	11.80
8009890	WWAK4P2-2/XOR	2.21	8010176	VASD41-4.048-0,6-WAS5/S90	11.80

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8010177	VASD41-4.048-0,6-WAS5/XOR	11.80	8010339	WKP3P2-2/P00	5.13
8010180	VASD41-4.048-0,6-WAS5/S74	11.80	8010340	WKP3P2-2/S90	5.13
8010181	VASD41-4.048-1,5-WAS5/P00	11.80	8010341	WKP3P2-2/XOR	5.13
8010182	VASD41-4.048-1,5-WAS5/S90	11.80	8010342	WKP3P2-2/S74	5.13
8010183	VASD41-4.048-1,5-WAS5/XOR	11.80	8010343	WKP3P2-5/P00	5.13
8010186	VASD41-4.048-1,5-WAS5/S74	11.80	8010344	WKP3P2-5/S90	5.13
8010200	WAK3-2/S398	2.1	8010345	WKP3P2-5/XOR	5.13
8010213	WWAK3P2-2/P00	2.21	8010346	WKP3P2-5/S74	5.13
8010214	WWAK3P2-2/S90	2.21	8010347	WKP3P2-10/P00	5.13
8010215	WWAK3P2-2/XOR	2.21	8010348	WKP3P2-10/S90	5.13
8010217	WWAK3P2-2/S398	2.21	8010349	WKP3P2-10/XOR	5.13
8010218	WWAK3P2-2/S74	2.21	8010350	WKP3P2-10/S74	5.13
8010222	WWAK3P2-5/S398	2.21	8010351	WKP4P2-2/P00	5.13
8010227	WWAK3P2-10/S398	2.21	8010352	WKP4P2-2/S90	5.13
8010239	WWAK4P3.1-2/S90	2.23	8010353	WKP4P2-2/XOR	5.13
8010240	WWAK4P3.1-5/XOR	2.23	8010354	WKP4P2-5/P00	5.13
8010248	WWAK3P2-1-WAS3/P00	11.25	8010355	WKP4P2-5/S90	5.13
8010250	WWAK3P2-1-WAS3/S398	11.25	8010356	WKP4P2-5/XOR	5.13
8010253	WWAK3P2-2-WAS3/S398	11.25	8010357	WKP4P2-10/P00	5.13
8010256	WWAK3P2-5-WAS3/P00	11.25	8010358	WKP4P2-10/S90	5.13
8010258	WWAK3P2-5-WAS3/S398	11.25	8010359	WKP4P2-10/XOR	5.13
8010259	WWAK3P2-0,3-WAS3/P00	11.25	8010360	SWKP3P2-2/P00	5.15
8010260	WWAK3P2-0,3-WAS3/XOR	11.25	8010361	SWKP3P2-2/S90	5.15
8010262	WWAK3P2-0,3-WAS3/S398	11.25	8010362	SWKP3P2-2/XOR	5.15
8010263	WWAK3P2-0,3-WAS3/S74	11.25	8010363	SWKP3P2-2/S74	5.15
8010264	WWAK3P2-0,6-WAS3/P00	11.25	8010364	SWKP3P2-5/P00	5.15
8010266	WWAK3P2-0,6-WAS3/S398	11.25	8010365	SWKP3P2-5/S74	5.15
8010267	WWAK3P2-1,5-WAS3/P00	11.25	8010366	SWKP3P2-10/P00	5.15
8010269	WWAK3P2-1,5-WAS3/S398	11.25	8010367	SWKP3P2-10/XOR	5.15
8010272	WWAK4P2-5-WAS4/XOR	11.26	8010368	SWKP3P2-10/S74	5.15
8010276	WWAK4P3.1-1-WAS4/P00	11.33	8010370	SWKP4P2-2/P00	5.15
8010277	WWAK4P3.1-1-WAS4/S90	11.33	8010371	SWKP4P2-2/S90	5.15
8010281	WWAK4P3.1-1-WAS4/S398	11.33	8010372	SWKP4P2-2/XOR	5.15
8010282	WWAK4P3.1-1-WAS4/S74	11.33	8010373	SWKP4P2-5/P00	5.15
8010283	WWAK4P3.1-2-WAS4/P00	11.33	8010374	SWKP4P2-5/XOR	5.15
8010284	WWAK4P3.1-2-WAS4/S90	11.33	8010375	SWKP4P2-10/P00	5.15
8010288	WWAK4P3.1-2-WAS4/S398	11.33	8010376	SWKP4P2-10/S90	5.15
8010289	WWAK4P3.1-2-WAS4/S74	11.33	8010377	SWKP4P2-10/XOR	5.15
8010292	WWAK4P3.1-5-WAS4/P00	11.33	8010378	ZWKP3P2-2/P00	5.14
8010293	WWAK4P3.1-5-WAS4/S90	11.33	8010379	ZWKP3P2-2/S90	5.14
8010294	WWAK4P3.1-5-WAS4/XOR	11.33	8010380	ZWKP3P2-2/XOR	5.14
8010299	WWAK4P3.1-5-WAS4/S74	11.33	8010381	ZWKP3P2-2/S74	5.14
8010301	WWAK4P3.1-0,3-WAS4/P00	11.33	8010382	ZWKP3P2-5/P00	5.14
8010302	WWAK4P3.1-0,3-WAS4/S90	11.33	8010383	ZWKP3P2-5/XOR	5.14
8010303	WWAK4P3.1-0,3-WAS4/XOR	11.33	8010384	ZWKP3P2-5/S74	5.14
8010307	WWAK4P3.1-0,3-WAS4/S398	11.33	8010385	ZWKP3P2-10/P00	5.14
8010308	WWAK4P3.1-0,3-WAS4/S74	11.33	8010386	ZWKP3P2-10/XOR	5.14
8010310	WWAK4P3.1-0,6-WAS4/P00	11.33	8010387	ZWKP3P2-10/S74	5.14
8010311	WWAK4P3.1-0,6-WAS4/S90	11.33	8010388	ZWKP4P2-2/P00	5.14
8010312	WWAK4P3.1-0,6-WAS4/XOR	11.33	8010389	ZWKP4P2-2/S90	5.14
8010316	WWAK4P3.1-0,6-WAS4/S398	11.33	8010390	ZWKP4P2-2/XOR	5.14
8010317	WWAK4P3.1-0,6-WAS4/S74	11.33	8010391	ZWKP4P2-5/P00	5.14
8010318	WWAK4P3.1-1,5-WAS4/P00	11.33	8010392	ZWKP4P2-5/S90	5.14
8010319	WWAK4P3.1-1,5-WAS4/S90	11.33	8010393	ZWKP4P2-5/XOR	5.14
8010320	WWAK4P3.1-1,5-WAS4/XOR	11.33	8010394	ZWKP4P2-10/P00	5.14
8010324	WWAK4P3.1-1,5-WAS4/S398	11.33	8010395	ZWKP4P2-10/S90	5.14
8010325	WWAK4P3.1-1,5-WAS4/S74	11.33	8010396	ZWKP4P2-10/XOR	5.14

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8010721	TASD41-4.048-2/P00	10.12	8011427	ZWKP3P2-0,3-WAS3/S90	11.51
8010722	TASD41-4.048-2/S90	10.12	8011428	ZWKP3P2-0,3-WAS3/XOR	11.51
8010723	TASD41-4.048-2/XOR	10.12	8011429	ZWKP3P2-0,3-WAS3/S74	11.51
8010724	TASD41-4.048-5/P00	10.12	8011430	ZWKP3P2-0,6-WAS3/P00	11.51
8010725	TASD41-4.048-5/S90	10.12	8011431	ZWKP3P2-0,6-WAS3/S90	11.51
8010726	TASD41-4.048-5/XOR	10.12	8011432	ZWKP3P2-0,6-WAS3/XOR	11.51
8010727	TASD41-4.048-10/P00	10.12	8011433	ZWKP3P2-0,6-WAS3/S74	11.51
8010728	TASD41-4.048-10/S90	10.12	8011434	ZWKP3P2-1,5-WAS3/P00	11.51
8010729	TASD41-4.048-10/XOR	10.12	8011435	ZWKP3P2-1,5-WAS3/S90	11.51
8010733	WWAK5P3.1-1-WAS5/P00	11.34	8011436	ZWKP3P2-1,5-WAS3/XOR	11.51
8010734	WWAK5P3.1-1-WAS5/S90	11.34	8011437	ZWKP3P2-1,5-WAS3/S74	11.51
8010735	WWAK5P3.1-1-WAS5/XOR	11.34	8011489	SWKP3P2-1-WAS3/P00	11.53
8010736	WWAK5P3.1-1-WAS5/S74	11.34	8011490	SWKP3P2-1-WAS3/XOR	11.53
8010737	WWAK5P3.1-2-WAS5/P00	11.34	8011491	SWKP3P2-1-WAS3/S74	11.53
8010738	WWAK5P3.1-2-WAS5/S90	11.34	8011492	SWKP3P2-2-WAS3/P00	11.53
8010739	WWAK5P3.1-2-WAS5/XOR	11.34	8011493	SWKP3P2-2-WAS3/S90	11.53
8010741	WWAK5P3.1-2-WAS5/S74	11.34	8011494	SWKP3P2-2-WAS3/XOR	11.53
8010742	WWAK5P3.1-5-WAS5/P00	11.34	8011495	SWKP3P2-2-WAS3/S74	11.53
8010743	WWAK5P3.1-5-WAS5/S90	11.34	8011497	SWKP3P2-5-WAS3/P00	11.53
8010744	WWAK5P3.1-5-WAS5/XOR	11.34	8011498	SWKP3P2-5-WAS3/S90	11.53
8010746	WWAK5P3.1-5-WAS5/S74	11.34	8011499	SWKP3P2-5-WAS3/XOR	11.53
8010747	WWAK5P3.1-0,3-WAS5/P00	11.34	8011500	SWKP3P2-5-WAS3/S74	11.53
8010748	WWAK5P3.1-0,3-WAS5/S90	11.34	8011502	SWKP3P2-0,3-WAS3/S90	11.53
8010749	WWAK5P3.1-0,3-WAS5/XOR	11.34	8011503	SWKP3P2-0,3-WAS3/XOR	11.53
8010751	WWAK5P3.1-0,3-WAS5/S74	11.34	8011504	SWKP3P2-0,3-WAS3/S74	11.53
8010752	WWAK5P3.1-0,6-WAS5/P00	11.34	8011505	SWKP3P2-0,6-WAS3/P00	11.53
8010753	WWAK5P3.1-0,6-WAS5/S90	11.34	8011506	SWKP3P2-0,6-WAS3/XOR	11.53
8010754	WWAK5P3.1-0,6-WAS5/XOR	11.34	8011507	SWKP3P2-0,6-WAS3/S74	11.53
8010755	WWAK5P3.1-0,6-WAS5/S74	11.34	8011508	SWKP3P2-1,5-WAS3/P00	11.53
8010756	WWAK5P3.1-1,5-WAS5/P00	11.34	8011509	SWKP3P2-1,5-WAS3/XOR	11.53
8010757	WWAK5P3.1-1,5-WAS5/S90	11.34	8011510	SWKP3P2-1,5-WAS3/S74	11.53
8010758	WWAK5P3.1-1,5-WAS5/XOR	11.34	8011512	SWKP4P2-1-WAS4/P00	11.54
8010759	WWAK5P3.1-1,5-WAS5/S74	11.34	8011513	SWKP4P2-1-WAS4/S90	11.54
8010760	SWKP3-1-SSP3/P00	11.67	8011514	SWKP4P2-1-WAS4/XOR	11.54
8010761	SWKP3-2-SSP3/XOR	11.67	8011515	SWKP4P2-2-WAS4/P00	11.54
8010762	SWKP3-2-SSP3/S74	11.67	8011516	SWKP4P2-2-WAS4/S90	11.54
8010763	SWKP3-0,6-SSP3/P00	11.67	8011517	SWKP4P2-2-WAS4/XOR	11.54
8011188	VAS22-2.048-F55.31K	10.13	8011518	SWKP4P2-5-WAS4/P00	11.54
8011381	VASD41-4.048-2/S90	10.7	8011519	SWKP4P2-5-WAS4/S90	11.54
8011382	VASD41-4.048-2/XOR	10.7	8011520	SWKP4P2-5-WAS4/XOR	11.54
8011383	VASD41-4.048-5/S90	10.7	8011521	SWKP4P2-0,3-WAS4/P00	11.54
8011384	VASD41-4.048-5/XOR	10.7	8011522	SWKP4P2-0,3-WAS4/S90	11.54
8011385	VASD41-4.048-10/P00	10.7	8011523	SWKP4P2-0,3-WAS4/XOR	11.54
8011386	VASD41-4.048-10/S90	10.7	8011524	SWKP4P2-0,6-WAS4/P00	11.54
8011387	VASD41-4.048-10/XOR	10.7	8011525	SWKP4P2-0,6-WAS4/S90	11.54
8011414	ZWKP3P2-1-WAS3/P00	11.51	8011526	SWKP4P2-0,6-WAS4/XOR	11.54
8011415	ZWKP3P2-1-WAS3/S90	11.51	8011527	SWKP4P2-1,5-WAS4/P00	11.54
8011416	ZWKP3P2-1-WAS3/XOR	11.51	8011528	SWKP4P2-1,5-WAS4/S90	11.54
8011417	ZWKP3P2-1-WAS3/S74	11.51	8011529	SWKP4P2-1,5-WAS4/XOR	11.54
8011418	ZWKP3P2-2-WAS3/P00	11.51	8011571	FK8-0,5	2.134
8011419	ZWKP3P2-2-WAS3/S90	11.51	8011572	FS8-0,5	2.145
8011420	ZWKP3P2-2-WAS3/XOR	11.51	8011575	WWAK4P2-1-WAS4/P00	11.26
8011421	ZWKP3P2-2-WAS3/S74	11.51	8011576	WWAK4P2-1-WAS4/S90	11.26
8011422	ZWKP3P2-5-WAS3/P00	11.51	8011579	WWAK4P2-1-WAS4/S74	11.26
8011423	ZWKP3P2-5-WAS3/S90	11.51	8011580	WWAK4P2-2-WAS4/P00	11.26
8011425	ZWKP3P2-5-WAS3/S74	11.51	8011581	WWAK4P2-2-WAS4/S90	11.26
8011426	ZWKP3P2-0,3-WAS3/P00	11.51	8011585	WWAK4P2-5-WAS4/P00	11.26

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8011590	WWAK4P2-5-WAS4/S74	11.26	8012654	WAS4-0,6-2FKM3/S89/P00	12.15
8011593	WWAK4P2-0,3-WAS4/P00	11.26	8012655	WAS4-1-2FKM3/S89/P00	12.15
8011594	WWAK4P2-0,3-WAS4/S90	11.26	8012656	WAS4-1,5-2FKM3/S89/P00	12.15
8011595	WWAK4P2-0,3-WAS4/XOR	11.26	8012657	WAS4-2-2FKM3/S89/P00	12.15
8011599	WWAK4P2-0,3-WAS4/S74	11.26	8012658	WAS4-5-2FKM3/S89/P00	12.15
8011600	WWAK4P2-0,6-WAS4/P00	11.26	8012659	WAS4-0,3-2FKM3/S89/S90	12.15
8011601	WWAK4P2-0,6-WAS4/S90	11.26	8012660	WAS4-0,6-2FKM3/S89/S90	12.15
8011602	WWAK4P2-0,6-WAS4/XOR	11.26	8012661	WAS4-1-2FKM3/S89/S90	12.15
8011606	WWAK4P2-0,6-WAS4/S74	11.26	8012662	WAS4-1,5-2FKM3/S89/S90	12.15
8011607	WWAK4P2-1,5-WAS4/P00	11.26	8012663	WAS4-2-2FKM3P3/S89/S90	12.15
8011611	WWAK4P4-1,5-WAS4/S74	11.26	8012664	WAS4-5-2FKM3/S89/S90	12.15
8011612	WWAK4P3.1-1-WWAS4/P00	11.35	8012665	WAS4-0,3-2FKM3/S89/XOR	12.15
8011613	WWAK4P3.1-1-WWAS4/S90	11.35	8012666	WAS4-0,6-2FKM3/S89/XOR	12.15
8011614	WWAK4P3.1-1-WWAS4/XOR	11.35	8012667	WAS4-1-2FKM3/S89/XOR	12.15
8011618	WWAK4P3.1-1-WWAS4/S398	11.35	8012668	WAS4-1,5-2FKM3/S89/XOR	12.15
8011619	WWAK4P3.1-1-WWAS4/S74	11.35	8012669	WAS4-2-2FKM3/S89/XOR	12.15
8011620	WWAK4P3.1-2-WWAS4/P00	11.35	8012670	WAS4-5-2FKM3/S89/XOR	12.15
8011621	WWAK4P3.1-2-WWAS4/S90	11.35	8012671	WAS4-0,3-2FKM3/S89/S74	12.15
8011622	WWAK4P3.1-2-WWAS4/XOR	11.35	8012672	WAS4-0,6-2FKM3/S89/S74	12.15
8011626	WWAK4P3.1-2-WWAS4/S398	11.35	8012673	WAS4-1-2FKM3/S89/S74	12.15
8011627	WWAK4P3.1-2-WWAS4/S74	11.35	8012674	WAS4-1,5-2FKM3/S89/S74	12.15
8011628	WWAK4P3.1-5-WWAS4/P00	11.35	8012675	WAS4-2-2FKM3/S89/S74	12.15
8011629	WWAK4P3.1-5-WWAS4/S90	11.35	8012676	WAS4-5-2FKM3/S89/S74	12.15
8011630	WWAK4P3.1-5-WWAS4/XOR	11.35	8012696	WWAK4P2-5-WWAS4/XOR	11.28
8011634	WWAK4P3.1-5-WWAS4/S398	11.35	8012697	WWAK4P2-2-WWAS4/XOR	11.28
8011635	WWAK4P3.1-5-WWAS4/S74	11.35	8012715	WWAK8-2/P00	2.19
8011636	WWAK4P3.1-0,3-WWAS4/P00	11.35	8012716	WWAK8-5/P00	2.19
8011637	WWAK4P3.1-0,3-WWAS4/S90	11.35	8012717	WWAK8-10/P00	2.19
8011638	WWAK4P3.1-0,3-WWAS4/XOR	11.35	8012718	WWAK8-2/S90	2.19
8011642	WWAK4P3.1-0,3-WWAS4/S398	11.35	8012719	WWAK8-5/S90	2.19
8011643	WWAK4P3.1-0,3-WWAS4/S74	11.35	8012720	WWAK8-10/S90	2.19
8011644	WWAK4P3.1-0,6-WWAS4/P00	11.35	8012721	WWAS8-2/P00	2.46
8011645	WWAK4P3.1-0,6-WWAS4/S90	11.35	8012722	WWAS8-5/P00	2.46
8011646	WWAK4P3.1-0,6-WWAS4/XOR	11.35	8012723	WWAS8-10/P00	2.46
8011650	WWAK4P3.1-0,6-WWAS4/S398	11.35	8012724	WWAS8-2/S90	2.46
8011651	WWAK4P3.1-0,6-WWAS4/S74	11.35	8012725	WWAS8-5/S90	2.46
8011652	WWAK4P3.1-1,5-WWAS4/P00	11.35	8012726	WWAS8-10/S90	2.46
8011653	WWAK4P3.1-1,5-WWAS4/S90	11.35	8012727	WWAK6-2/P00	2.18
8011654	WWAK4P3.1-1,5-WWAS4/XOR	11.35	8012728	WWAK6-5/P00	2.18
8011658	WWAK4P3.1-1,5-WWAS4/S398	11.35	8012729	WWAK6-10/P00	2.18
8011659	WWAK4P3.1-1,5-WWAS4/S74	11.35	8012730	WWAK6-2/S90	2.18
8011661	FKM5-FKM5-FSM5	12.13	8012731	WWAK6-5/S90	2.18
8011711	VAS31-0.220-5/XOR	10.5	8012732	WWAK6-10/S90	2.18
8011951	FSFDH5	2.150	8012733	WWAS6-2/P00	2.45
8012097	VASD41-4.048-FS5K	10.14	8012734	WWAS6-5/P00	2.45
8012310	SWKP3P2-1-SSP3/S90	11.73	8012735	WWAS6-10/P00	2.45
8012311	SWKP3P2-1-SSP3/XOR	11.73	8012736	WWAS6-2/S90	2.45
8012312	SWKP3P2-2-SSP3/S90	11.73	8012737	WWAS6-5/S90	2.45
8012313	SWKP3P2-0,3-SSP3/S90	11.73	8012738	WWAS6-10/S90	2.45
8012314	SWKP3P2-0,6-SSP3/S90	11.73	8012784	WWAK4P2-0,3-WWAS4/P00	11.28
8012315	SWKP3P2-1,5-SSP3/S90	11.73	8012785	WWAK4P2-0,6-WWAS4/P00	11.28
8012359	VAS22-0.220-10/S90	10.1	8012786	WWAK4P2-1-WWAS4/P00	11.28
8012419	WWAK3P2-2-WWAS3/S90	11.27	8012787	WWAK4P2-1,5-WWAS4/P00	11.28
8012425	WWAK3P2-1-WWAS3/S90	11.27	8012788	WWAK4P2-2-WWAS4/P00	11.28
8012582	WWAK4P2-1-WWAS4/S74	11.28	8012789	WWAK4P2-5-WWAS4/P00	11.28
8012651	FKM4-2FSM3/S89	12.11	8012790	WWAK4P2-0,3-WWAS4/S90	11.28

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8012792	WWAK4P2-1-WWAS4/S90	11.28	8013538	WWAK5P3-0,6-WAS5/P00	11.30
8012793	WWAK4P2-1,5-WWAS4/S90	11.28	8013539	WWAK5P3-1-WAS5/P00	11.30
8012794	WWAK4P2-2-WWAS4/S90	11.28	8013540	WWAK5P3-1,5-WAS5/P00	11.30
8012795	WWAK4P2-5-WWAS4/S90	11.28	8013541	WWAK5P3-2-WAS5/P00	11.30
8012796	WWAK4P2-0,3-WWAS4/XOR	11.28	8013542	WWAK5P3-5-WAS5/P00	11.30
8012797	WWAK4P2-0,6-WWAS4/XOR	11.28	8013543	WWAK5P3-0,3-WAS5/S90	11.30
8012798	WWAK4P2-1-WWAS4/XOR	11.28	8013544	WWAK5P3-0,6-WAS5/S90	11.30
8012799	WWAK4P2-1,5-WWAS4/XOR	11.28	8013545	WWAK5P3-1-WAS5/S90	11.30
8012800	WWAK4P2-0,3-WWAS4/S74	11.28	8013546	WWAK5P3-1,5-WAS5/S90	11.30
8012801	WWAK4P2-0,6-WWAS4/S74	11.28	8013547	WWAK5P3-2-WAS5/S90	11.30
8012802	WWAK4P2-1,5-WWAS4/S74	11.28	8013548	WWAK5P3-5-WAS5/S90	11.30
8012803	WWAK4P2-2-WWAS4/S74	11.28	8013549	WWAK5P3-0,3-WAS5/XOR	11.30
8012804	WWAK4P2-5-WWAS4/S74	11.28	8013550	WWAK5P3-0,6-WAS5/XOR	11.30
8012896	WWAK3P2-0,3-WWAS3/P00	11.27	8013551	WWAK5P3-1-WAS5/XOR	11.30
8012897	WWAK3P2-0,6-WWAS3/P00	11.27	8013552	WWAK5P3-1,5-WAS5/XOR	11.30
8012898	WWAK3P2-1-WWAS3/P00	11.27	8013553	WWAK5P3-2-WAS5/XOR	11.30
8012899	WWAK3P2-1,5-WWAS3/P00	11.27	8013554	WWAK5P3-5-WAS5/XOR	11.30
8012900	WWAK3P2-2-WWAS3/P00	11.27	8013555	WWAK5P3-0,3-WAS5/S74	11.30
8012901	WWAK3P2-5-WWAS3/P00	11.27	8013556	WWAK5P3-0,6-WAS5/S74	11.30
8012902	WWAK3P2-0,3-WWAS3/S90	11.27	8013557	WWAK5P3-1-WAS5/S74	11.30
8012903	WWAK3P2-0,6-WWAS3/S90	11.27	8013558	WWAK5P3-1,5-WAS5/S74	11.30
8012904	WWAK3P2-1,5-WWAS3/S90	11.27	8013559	WWAK5P3-2-WAS5/S74	11.30
8012906	WWAK3P2-0,3-WWAS3/XOR	11.27	8013560	WWAK5P3-5-WAS5/S74	11.30
8012907	WWAK3P2-0,6-WWAS3/XOR	11.27	8013600	FSF4-0,5	2.151
8012908	WWAK3P2-1-WWAS3/XOR	11.27	8013694	MKC12L	7.5
8012909	WWAK3P2-1,5-WWAS3/XOR	11.27	8013695	MKC16L	7.5
8012910	WWAK3P2-2-WWAS3/XOR	11.27	8013696	MKC19L	7.6
8012911	WWAK3P2-5-WWAS3/XOR	11.27	8013933	VAS31-0.220-10/S90	10.5
8012912	WWAK3P2-0,3-WWAS3/S74	11.27	8013992	ZKP3-2-SP3/P00	11.57
8012913	WWAK3P2-0,6-WWAS3/S74	11.27	8014006	WKP3P2-0,3-WAS3/S90	11.49
8012914	WWAK3P2-1-WWAS3/S74	11.27	8014007	WKP3P2-0,6-WAS3/S90	11.49
8012915	WWAK3P2-1,5-WWAS3/S74	11.27	8014008	WKP3P2-1-WAS3/S90	11.49
8012916	WWAK3P2-5-WWAS3/S74	11.27	8014132	SWKP3-0,6-SSP3/S90	11.67
8013016	WWAK5P3-2/P00	2.22	8014298	VAS22-2.048-1-WAS5.31/P00	11.79
8013017	WWAK5P3-5/P00	2.22	8014303	SKP4-2-SSP4/S90	11.60
8013018	WWAK5P3-10/P00	2.22	8014313	WKP3P2-1,5-WAS3/S90	11.49
8013019	WWAK5P3-2/S90	2.22	8014314	WWAK3-2/S398	2.17
8013020	WWAK5P3-5/S90	2.22	8014418	SWKP3P2-2-SWSP3/XOR	11.77
8013021	WWAK5P3-10/S90	2.22	8014420	SWKP3P2-5-SWSP3/XOR	11.77
8013022	WWAK5P3-2/XOR	2.22	8015041	WAK3-5/S398	2.1
8013023	WWAK5P3-5/XOR	2.22	8015042	WAK3-10/S398	2.1
8013024	WWAK5P3-10/XOR	2.22	8015247	TBS21-2.048-1-WAS5.21/XOR	11.82
8013025	WWAK5P3-2/S74	2.22	8015251	FKD5-0,5	2.135
8013026	WWAK5P3-5/S74	2.22	8015265	WWAK4P2-2/S398	2.21
8013027	WWAK5P3-10/S74	2.22	8015312	WKP3P2-2-WAS3/S74	11.49
8013056	VAS31-0.220-5/S90	10.5	8015334	FS5	2.146
8013058	FSM4-2SKP3/S89	12.12	8015396	WKP3P2-2-WAS3/S90	11.49
8013148	VAS31-2.048-5/S90	10.6	8015408	SWKP3-1-SSP3/S90	11.67
8013280	VIS21-2.048-5-WAS5.31/S398	11.83	8015453	SWKP3-0,3-SSP3/S90	11.67
8013317	VASD41-4.048-5/S398	10.7	8015456	SWKP3-2-SSP3/S90	11.67
8013318	VASD41-4.048-10/S398	10.7	8015459	SWKP3-5-SSP3/S90	11.67
8013330	VAS22-2.048-5/S398	10.2	8015498	TBS21-2.048-0,6-WAS5.31/XOR	11.82
8013411	ZKP4-0,3-SP4/P00	11.58	8015503	VAS22-2.048-10/S74	10.2
8013441	WKP3P2-0,6-WAS3/S74	11.49	8015510	TIS21-2.048-1,5-WAS5.31/XOR	11.84
8013535	VAS22-2.048-2/S398	10.2	8015522	WAS4-0,6-2FKM3P3/S89/S74	12.16
8013536	WWAK4P3.1-2/S398	2.23	8015523	WAS4-0,6-2FKM3P3/S89/S74	12.16

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8015589	WKP4P2-1-WAS4/S90	11.50	8017315	WWAK4-0,6-WAS4/S398	11.10
8015591	TIS21-2.048-0,6-WAS5.31/XOR	11.84	8017316	WWAK4-1-WAS4/S398	11.10
8015606	FKM4-2SSP3-0,3/0,3/S77/S398	12.20	8017317	WWAK4-1,5-WAS4/S398	11.10
8015609	FKFD8	2.137	8017318	WWAK4-2-WAS4/S398	11.10
8015710	WAS4-1-2FKM3P3/S89/XOR	12.16	8017319	WAK4-0,6-WAS4/S398	11.2
8016115	SWKP3P2-0,6-SSP3/XOR	11.73	8017320	WAK4-1-WAS4/S398	11.2
8016145	SWKP3P2-0,3-SSP3/XOR	11.73	8017321	WAK4-1,5-WAS4/S398	11.2
8016175	SWKP3-2-SSP3/P00	11.67	8017322	WAK4-2-WAS4/S398	11.2
8016194	WAKL4-10/P00	2.10	8017324	FSM4-2WAK3-0,3/0,3/S398	12.18
8016217	SWKP3-1,5-SSP3/S90	11.67	8017351	WSKPC3L	5.16
8016269	VAS22-2.048-1,5-WAS5.31/S398	11.79	8017364	WSKPC4L	5.16
8016271	WWAK5P3.1-2-WAS5/S398	11.34	8017365	WSSPC-3L	5.27
8016285	VBS21-2.048-0,3-WAS5.31/S398	11.81	8017366	WSSPC4L	5.27
8016286	VBS21-2.048-0,6-WAS5.31/S398	11.81	8017368	WWAK4P3-1-WWAS4/XOR	11.31
8016400	SKP3-1,5-SSP3/P00	11.59	8017371	WAK5-5-WAS5/S398	11.3
8016477	WAK5-0,6-WAS5/S398	11.3	8017372	WWAK5P3-5-WAS5/S398	11.30
8016478	WAK5-1,5-WAS5/S398	11.3	8017381	WWAK5P3.1-1,5-WWAS5/XOR	11.36
8016479	WAK5-1-WAS5/S398	11.3	8017401	WWAK4P3.1-5/S398	2.23
8016480	WAK5-2-WAS5/S398	11.3	8017452	SKP4-0,3-SSP4/P00	11.60
8016481	WWAK3-10/S398	2.17	8017471	WWAK4P2-1-WAS4/S398	11.26
8016491	WWAK5-0,6-WAS5/S398	11.11	8017472	WWAK4P2-2-WAS4/S398	11.26
8016492	WWAK5-1,5-WAS5/S398	11.11	8017474	TAS31-2.048-5/S90	10.9
8016493	WWAK5-1-WAS5/S398	11.11	8017477	WKP3-0,3-SP3/S90	11.63
8016495	WWAK5P3.1-0,6-WAS5/S398	11.34	8017522	WAK4-5-WAS4/S398	11.2
8016496	WWAK5P3.1-1,5-WAS5/S398	11.34	8017523	WAK4-2/S398	2.1
8016497	WWAK5P3.1-1-WAS5/S398	11.34	8017528	WWAK4-5-WAS4/S398	11.10
8016719	WAKL3-10/P00	2.10	8017543	VASD41-4.048-1-WAS5/S398	11.80
8016729	WWAK4P2-5-WAS4/S398	11.26	8017552	WKP3P2-0,6-WAS3/XOR	11.49
8016800	WWAK4P3-0,6-WWAS4/S398	11.31	8017592	EWAS5	2.154
8016857	PFAK3	5.29	8017603	WWAK4P3-0,3-WWAS4/S398	11.31
8016887	VAS31-2.048-5/XOR	10.6	8017604	WWAK4P3-1,5-WWAS4/S398	11.31
8017068	WWAK3P2-5-WWAS3/S90	11.27	8017605	WWAK4P3-1-WWAS4/S398	11.31
8017086	WKP4P2-2-WAS4/S90	11.50	8017606	WWAK4P3-2-WWAS4/S398	11.31
8017111	WMKCU19.003-5/S366	7.12	8017607	WMKA14C	6.5
8017112	WMKCU19.003-10/S366	7.12	8017613	SKP4-1,5-SSP4/P00	11.60
8017113	WMKCU19.003-15/S366	7.12	8017614	SKP4-1-SSP4/P00	11.60
8017130	MKC19C	7.8	8017634	VAS22-0.220-2/S90	10.1
8017131	MKC16C	7.7	8017660	VAS22-2.048-2/S74	10.2
8017132	MKC12C	7.7	8017703	WWAK4-0,3-WAS4/S398	11.10
8017141	VAS22-0.220-2/XOR	10.1	8017704	WWAK4-0,3-WWAS4/S398	11.18
8017150	KP4-1-SP4/P00	11.56	8017707	WWAK4-0,6-WWAS4/S398	11.18
8017151	WMKC19L	7.14	8017715	WSP3-2/P00	5.24
8017152	WMKC16L	7.13	8017721	8MBM8-3P2	13.24
8017153	WMKC12L	7.13	8017724	8MBS8-3P2	13.28
8017154	WMKC19C	7.16	8017725	4MBS8-3P2	13.34
8017155	WMKC16C	7.15	8017726	4MBM8-3P2	13.30
8017156	WMKC12C	7.15	8017760	VAS31-2.048-10/S90	10.6
8017185	TAS31-2.048-2/S90	10.9	8017763	WWAK5P3.1-5-WAS5/S398	11.34
8017204	WWAK5P3-0,6-WAS5/S398	11.30	8017784	WWAK4P3-0,6-WWAS4/S90	11.31
8017221	MKCU19.003-5/S366	7.4	8017785	WWAK4P3-1-WWAS4/S90	11.31
8017222	MKCU19.003-10/S366	7.4	8017810	WAK3-0,3-WAS3/S398	11.1
8017223	MKCU19.003-15/S366	7.4	8017812	WWAK4P2-1,5-WAS4/S398	11.26
8017230	FKMC5K	2.16	8017818	VAS31-2.048-2/P00	10.6
8017231	FSMC4K	2.43	8017828	FSM5-2VAS22-2.048-0,6/0,6/S398	12.23
8017264	KP4-2-SP4/P00	11.56	8017853	SKP3-1-SSP3/S74	11.59
8017313	WAK4-5/S398	2.1	8017860	FKM4-2WAS3-0,3-0,3/S398	12.17
8017314	WAK4-10/S398	2.1	8017866	WWAK4-1-WWAS4/S398	11.18

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8017868	WWAK4-2-WWAS4/S398	11.18	8018410	FKFS8/M12	2.143
8017869	WWAK4-5-WWAS4/S398	11.18	8018427	TAS31-0.220-2/P00	10.8
8017872	PFA6	5.29	8018428	WWAK4P3-1,5-WWAS4/S90	11.31
8017891	WWAK4P3-5/S398	2.22	8018429	WWAK4P3-2-WWAS4/S90	11.31
8017903	WAK5-0,3-WAS5/S398	11.3	8018489	TBS21-2.048-0,6-WAS5.31/S90	11.82
8017911	WWAK4P2-0,6-WAS4/S320/S398	11.26	8018500	VAS22-2.048-2-WAS5.31/P00	11.79
8017912	WWAK3P2-0,6-WWAS3/S398	11.27	8018508	WMKAU14.001-2/S1118	6.3
8017913	WWAK3P2-1-WWAS3/S398	11.27	8018551	VBS21-2.048-1-WAS5.31/S398	11.81
8017914	WWAK3P2-1,5-WWAS3/S398	11.27	8018645	WSP3-10/P00	5.24
8017915	WWAK3P2-2-WWAS3/S398	11.27	8018720	FSM5-2FKM5.4/S55	12.4
8017916	WWAK3P2-5-WWAS3/S398	11.27	8018728	SKP4-0,6-SSP4/S90	11.60
8017927	WWAK5-2/S398	2.18	8018729	SKP4-1-SSP4/S90	11.60
8017928	WAK5-5/S398	2.2	8018748	WWAK4P3-0,3-WWAS4/S90	11.31
8017978	WWAK4P3.1-10/S398	2.23	8018749	WWAK4P3-5-WWAS4/S90	11.31
8018042	WWAK4-10/S398	2.17	8018753	FSM4-2WAK3-2/2/S398	12.18
8018054	VAS22-2.048-1-WAS5.31/S398	11.79	8018758	WAK4-0,3-WAS4/S398	11.2
8018058	FSM4-2WAK3-1/1/S398	12.18	8018782	4MBM12-5P3-M23-19	13.14
8018059	ZWKP3-2/S398	5.10	8018817	FSM4-2WAK3-0,6/0,6/S398	12.18
8018062	ZWKP3-10/S398	5.10	8018818	FSM2-2WAK3-1,5/1,5/S398	12.18
8018071	WAK3-0,6-WAS3/S398	11.1	8018819	TBS21-2.048-2-WAS5.31/XOR	11.82
8018090	WAK3-5-WAS3/S398	11.1	8018820	FSM4-2WAK3-5/5/S398	12.18
8018113	8MBM8-3P2-2/S1117	13.36	8018846	FSM4-2SKP3-0,6/0,6/S398/S77	12.21
8018114	8MBM8-3P2-5/S1117	13.36	8018884	WWAS5-2/S398	2.45
8018115	8MBM8-3P2-10/S1117	13.36	8018907	VASD41-4.048-2-WAS5/S398	11.80
8018116	8MBS8-3P2-2/S1117	13.40	8018910	WWAK4P2-0,3-WAS4/S398	11.26
8018117	8MBS8-3P2-5/S1117	13.40	8018915	WAKL3-5/P00	2.10
8018118	8MBS8-3P2-10/S1117	13.40	8018927	FKM4-2WAS3-2/2/S398	12.17
8018119	4MBM8-3P2-2/S1117	13.42	8019029	VIS21-2.048-1,5-WAS5.31/S398	11.83
8018120	4MBM8-3P2-5/S1117	13.42	8019057	WWASS8-2/P00	2.48
8018121	4MBM8-3P2-10/S1117	13.42	8019058	WWASS8-2/S366	2.48
8018122	4MBS8-3P2-2/S1117	13.46	8019059	WWAKS8-2/P00	2.25
8018123	4MBS8-3P2-5/S1117	13.46	8019060	WWAKS8-2/S366	2.25
8018124	4MBS8-3P2-10/S1117	13.46	8019073	WWAKS3-2/P00	2.24
8018125	8MBM8-3P2-2/S1118	13.48	8019074	WWAKS3-5/P00	2.24
8018126	8MBM8-3P2-5/S1118	13.48	8019075	WWAKS3-10/P00	2.24
8018127	8MBM8-3P2-10/S1118	13.48	8019076	WWAKS3-2/S366	2.24
8018128	8MBS8-3P2-2/S1118	13.52	8019077	WWAKS3-5/S366	2.24
8018129	8MBS8-3P2-5/S1118	13.52	8019078	WWAKS3-10/S366	2.24
8018130	8MBS8-3P2-10/S1118	13.52	8019079	WWAKS4-2/P00	2.24
8018131	4MBM8-3P2-2/S1118	13.54	8019080	WWAKS4-5/P00	2.24
8018132	4MBM8-3P2-5/S1118	13.54	8019081	WWAKS4-10/P00	2.24
8018133	4MBM8-3P2-10/S1118	13.54	8019082	WWAKS4-2/S366	2.24
8018134	4MBS8-3P2-2/S1118	13.56	8019083	WWAKS4-5/S366	2.24
8018135	4MBS8-3P2-5/S1118	13.56	8019084	WWAKS4-10/S366	2.24
8018136	4MBS8-3P2-10/S1118	13.56	8019085	WWAKS4.5-2/S366	2.25
8018198	8MB12-5P4-K-SK	13.17	8019086	WWAKS4.5-5/S366	2.25
8018199	8MB12-5P1-M-SK	13.18	8019087	WWAKS4.5-10/S366	2.25
8018200	8MB12-5P1-MS-SK	13.19	8019088	WWASS3-2/P00	2.47
8018204	4MB12-5P4-K-SK	13.20	8019089	WWASS3-5/P00	2.47
8018205	4MB12-5P1-M-SK	13.21	8019090	WWASS3-10/P00	2.47
8018206	4MB12-5P1-MS-SK	13.22	8019091	WWASS3-2/S366	2.47
8018368	FKM4-2WAS3-1/1/S398	12.17	8019092	WWASS3-5/S366	2.47
8018371	FSFD8	2.149	8019093	WWASS3-10/S366	2.47
8018377	VAS22-0.220-2/P00	10.1	8019094	WWASS4-2/P00	2.47
8018378	VAS22-0.220-5/P00	10.1	8019095	WWASS4-5/P00	2.47
8018404	FKFS4/M12	2.141	8019096	WWASS4-10/P00	2.47

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8019097	WWASS4-2/S366	2.47	8019328	WAKL4-2/P00	2.10
8019098	WWASS4-5/S366	2.47	8019398	WWAK4-2/S398	2.17
8019099	WWASS4-10/S366	2.47	8019400	WWAK4-5/S398	2.17
8019100	WWASS4.5-2/S366	2.48	8019404	FSM5-2VAS22-2.048-1/1/S398	12.23
8019101	WWASS4.5-5/S366	2.48	8019421	PFKS6-0,2	5.28
8019102	WWASS4.5-10/S366	2.48	8019431	WMKAU14.001-2/S1117	6.3
8019131	WAK8-1-WAS8/P00	11.4	8019432	WMKAU14.001-5/S1117	6.3
8019137	WWAKS4.5-2/P00	2.25	8019443	WMKAU14.001-10/S1117	6.3
8019138	WWAKS4.5-5/P00	2.25	8019444	WMKAU14.001-5/S1118	6.3
8019139	WWAKS4.5-10/P00	2.25	8019445	WMKAU14.001-10/S1118	6.3
8019140	WWASS44.5-2/P00	2.48	8019453	VASD41-4.048-0,6-WAS5/S398	11.80
8019141	WWASS4.5-5/P00	2.48	8019469	FKM4-2WAS3-0,6-0,6-S398	12.17
8019142	WWASS4.5-10/P00	2.48	8019474	WWAK4P2-5/S398	2.21
8019143	WASS3-2/S366	2.33	8019495	4MBM12-5P3-2/S366	13.15
8019144	WASS3-5/S366	2.33	8019496	4MBM12-5P3-5/S366	13.15
8019145	WASS3-10/S366	2.33	8019497	4MBM12-5P3-10/S366	13.15
8019146	WASS4-2/S366	2.33	8019536	TAS31-2.048-10/S90	10.9
8019147	WASS4-5/S366	2.33	8019571	VAS31-0.220-2/XOR	10.5
8019148	WASS4-10/S366	2.33	8019574	VAS31-0.220-10/XOR	10.5
8019149	WASS4.5-2/P00	2.34	8019650	VAS31-2.048-10/XOR	10.6
8019150	WASS4.5-5/P00	2.34	8019653	VAS31-2.048-2/S90	10.6
8019151	WASS4.5-10/P00	2.34	8019684	WAK5-10/S398	2.2
8019152	WASS4.5-2/S366	2.34	8019703	WAS4-5/S398	2.30
8019153	WASS4.5-5/S366	2.34	8019704	WAS4-10/S398	2.30
8019154	WASS4.5-10/S366	2.34	8019716	WASC4S	2.42
8019155	WASS8-2/P00	2.34	8019717	WWASC4S	2.52
8019156	WASS8-5/P00	2.34	8019718	WAKC4S	2.15
8019157	WASS8-10/P00	2.34	8019719	WWAKC4S	2.29
8019158	WASS8-2/S366	2.34	8019720	SSPC3S	5.23
8019159	WASS8-5/S366	2.34	8019721	SKPC3S	5.8
8019160	WASS8-10/S366	2.34	8019722	SKPC4S	5.23
8019161	WAKS3-2/S366	2.6	8019723	SSPC4S	5.8
8019162	WAKS3-5/S366	2.6	8019757	SWKP3-5/S366	5.11
8019163	WAKS3-10/S366	2.6	8019758	SKP3-5/S366	5.5
8019164	WAKS4-2/S366	2.6	8019844	SKP4-5-SSP4/P00	11.60
8019165	WAKS4-5/S366	2.6	8019944	WAK3-2/S366	2.1
8019166	WAKS4-10/S366	2.6	8019945	WAK3-5/S366	2.1
8019167	WAKS4.5-2/P00	2.7	8019946	WAK3-10/S366	2.1
8019168	WAKS4.5-5/P00	2.7	8019947	WAK4-2/S366	2.1
8019169	WAKS4.5-10/P00	2.7	8019957	WAK4-5/S366	2.1
8019170	WAKS4.5-2/S366	2.7	8019958	WAK4-10/S366	2.1
8019171	WAKS4.5-5/S366	2.7	8019959	WAK5-2/S366	2.2
8019172	WAKS4.5-10/S366	2.7	8019960	WAK5-5/S366	2.2
8019173	WAKS8-2/P00	2.7	8019961	WAK5-10/S366	2.2
8019174	WAKS8-5/P00	2.7	8019962	WAK8-2/S366	2.3
8019175	WAKS8-10/P00	2.7	8019963	WAK5-2/S398	2.2
8019176	WAKS8-2/S366	2.7	8019964	WAK8-5/S366	2.3
8019177	WAKS8-5/S366	2.7	8019965	WAK8-10/S366	2.3
8019178	WAKS8-10/S366	2.7	8019966	WAK3P2-2/S366	2.5
8019185	WAS5-10/S398	2.31	8019967	WAK3P2-5/S366	2.5
8019193	WWAS5-10/S398	2.45	8019968	WAK3P2-10/S366	2.5
8019197	WWAK5P3-0,3-WAS5/S398	11.30	8019969	WAK3P2-2/S398	2.5
8019202	WWAK3-5/S398	2.17	8019970	WAK3P2-5/S398	2.5
8019232	SWKPS4-2/P00	5.12	8019971	WAK3P2-10/S398	2.5
8019233	SWKPS4-2/S366	5.12	8019972	WAK4P2-2/S366	2.5
8019234	SWKPS3-2/P00	5.12	8019973	WAK4P2-5/S366	2.5
8019235	SWKPS3-2/S366	5.12	8019974	WAK4P2-10/S366	2.5

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8019976	WAK4P2-5/S398	2.5	8020035	WWAS3-10/S366	2.44
8019977	WAK4P2-10/S398	2.5	8020036	WWAS3-2/S398	2.44
8019980	WAS3-2/S366	2.30	8020037	WWAS3-5/S398	2.44
8019981	WAS3-5/S366	2.30	8020038	WWAS3-10/S398	2.44
8019982	WAS3-10/S366	2.30	8020039	WWAS4-2/S366	2.44
8019983	WAS3-2/S398	2.30	8020040	WWAS4-5/S366	2.44
8019984	WAS3-10/S398	2.30	8020041	WWAS4-10/S366	2.44
8019985	WAS3-5/S398	2.30	8020042	WWAS4-2/S398	2.44
8019986	WAS4-2/S366	2.30	8020044	WWAS4-5/S398	2.44
8019987	WAS4-5/S366	2.30	8020046	WWAS4-10/S398	2.44
8019988	WAS4-10/S366	2.30	8020047	WWAS5-2/S366	2.45
8019989	WAS4-2/S398	2.30	8020048	WWAS5-5/S366	2.45
8019990	WAS5-2/S366	2.31	8020049	WWAS5-10/S366	2.45
8019991	WAS5-5/S366	2.31	8020050	WWAS5-5/S398	2.45
8019992	WAS5-10/S366	2.31	8020051	WWAS8-2/S366	2.46
8019993	WAS5-2/S398	2.31	8020052	WWAS8-5/S366	2.46
8019994	WAS5-5/S398	2.31	8020053	WWAS8-10/S366	2.46
8019995	WAS8-2/S366	2.32	8020084	SWKP3-1,5-SSP3/P00	11.67
8019996	WAS8-5/S366	2.32	8020094	WWAK5P3.1-0,3-WAS5/S398	11.34
8019997	WAS8-10/S366	2.32	8020141	VIS21-2.048-0,6-WAS5.31/S398	11.83
8019998	WWAK3-2/S366	2.17	8020156	WWAK5-2-WAS5/S398	11.11
8019999	WWAK3-5/S366	2.17	8020248	WAKS8-1-WAS58/S366	11.8
8020000	WWAK3-10/S366	2.17	8020251	WWAK3P2-2-WAS3/P00	11.25
8020001	WWAK4-2/S366	2.17	8020255	VAS22-2.048-5-WAS5.31/S74	11.79
8020002	WWAK4-5/S366	2.17	8020258	SKP3-0,3-SSP3/S74	11.59
8020003	WWAK4-10/S366	2.17	8020259	SKP3-0,6-SSP3/S74	11.59
8020004	WWAK5-2/S366	2.18	8020260	SKP3-1,5-SSP3/S74	11.59
8020005	WWAK5-5/S366	2.18	8020367	SWKP3-0,3-SSP3/S74	11.67
8020006	WWAK5-10/S366	2.18	8020475	FC-WAK4-2/S2020	4.1
8020007	WWAK5-5/S398	2.18	8020479	FC-WAS5-2/S2020	4.8
8020008	WWAK5-10/S398	2.18	8020505	WAK3-1-WAS3/S398	11.1
8020009	WWAK8-2/S366	2.19	8020506	WAK3-2-WAS3/S398	11.1
8020010	WWAK8-5/S366	2.19	8020942	TIS21-2.048-2-WAS5.31/XOR	11.84
8020011	WWAK8-10/S366	2.19	8020981	WWAK3-1-WWAS3/S398	11.17
8020012	WWAK3P2-2/S366	2.21	8020982	WWAK3-2-WWAS3/S398	11.17
8020013	WWAK3P2-5/S366	2.21	8020984	WWAK3-5-WWAS3/S398	11.17
8020014	WWAK3P2-10/S366	2.21	8020999	WWAK3-1-WAS3/S398	11.9
8020015	WWAK4P2-2/S366	2.21	8021129	KP3-5-SP3/S90	11.55
8020016	WWAK4P2-5/S366	2.21	8021228	ZKP3-5-SP3/S90	11.57
8020017	WWAK4P2-10/S366	2.21	8021290	FSM4-2SKP3-1,0/1,0/S77/S398	12.21
8020018	WWAK4P2-10/S398	2.21	8021385	WWAK5P3.1-1-WWAS5/S398	11.36
8020019	WWAK4P3-2/S366	2.22	8021564	VAS31-0.220-10/P00	10.5
8020020	WWAK4P3-5/S366	2.22	8021607	8MBM8-3N2-2/S1117	13.37
8020021	WWAK4P3-10/S366	2.22	8021608	8MBM8-3N2	13.25
8020022	WWAK4P3-2/S398	2.22	8021609	8MBS8-3N2-2/S1117	13.41
8020023	WWAK4P3-10/S398	2.22	8021610	8MBS8-3N2	13.29
8020024	WWAK4P3.1-2/S366	2.23	8021611	4MBM8-3N2-2/S1117	13.43
8020025	WWAK4P3.1-5/S366	2.23	8021614	4MBS8-3N2-2/S1117	13.47
8020026	WWAK4P3.1-10/S366	2.23	8021638	4MBM8-3N2	13.31
8020027	WWAK5P3.1-2/S366	2.23	8021639	4MBS8-3N2	13.35
8020028	WWAK5P3.1-5/S366	2.23	8021640	8MBM8-3N2-5/S1117	13.37
8020029	WWAK5P3.1-10/S366	2.23	8021641	8MBS8-3N2-5/S1117	13.41
8020030	WWAK5P3.1-2/S398	2.23	8021642	8MBS8-3N2-10/S1117	13.41
8020031	WWAK5P3.1-5/S398	2.23	8021643	8MBM8-3N2-10/S1117	13.37
8020032	WWAK5P3.1-10/S398	2.23	8021644	4MBM8-3N2-5/S1117	13.43
8020033	WWAS3-2/S366	2.44	8021645	4MBM8-3N2-10/S1117	13.43

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8021647	4MBS8-3N2-10/S1117	13.47	8022166	WMKAU19.001-2/S1117	6.4
8021654	8MBM8-3N2-2/S1118	13.49	8022167	WMKAU19.001-2/S1118	6.4
8021655	8MBM8-3N2-5/S1118	13.49	8022180	SKP3-2/S366	5.5
8021656	8MBM8-3N2-10/S1118	13.49	8022181	SKP3-10/S366	5.5
8021657	8MBS8-3N2-2/S1118	13.53	8022182	SKP4-2/S77/S366	5.5
8021658	8MBS8-3N2-5/S1118	13.53	8022183	SKP4-5/S77/S366	5.5
8021659	8MBS8-3N2-10/S1118	13.53	8022184	SKP4-10/S77/S366	5.5
8021660	4MBM8-3N2-2/S1118	13.55	8022185	SWKP3-2/S366	5.11
8021661	4MBM8-3N2-2/S1118	13.55	8022186	SWKP3-10/S366	5.11
8021662	4MBM8-3N2-10/S1118	13.55	8022187	WSP3-5/P00	5.24
8021663	4MBS8-3N2-2/S1118	13.57	8022188	WSP3-2/S90	5.24
8021664	4MBS8-3N2-5/S1118	13.57	8022189	WSP3-5/S90	5.24
8021665	4MBS8-3N2-10/S1118	13.57	8022190	WSP3-10/S90	5.24
8021723	WWAK5P3.1-5-WWAS5/XOR	11.36	8022192	WSP3-2/XOR	5.24
8021806	F5M4-2SKP3-1,5/1,5/S77/S38	12.21	8022193	WSP3-5/XOR	5.24
8021862	WAKC8K	2.12	8022194	WSP3-10/XOR	5.24
8021863	WASC8K	2.39	8022196	WSP3-2/S74	5.24
8021882	WAK3-1,5-WAS3/S398	11.1	8022197	WSP3-5/S74	5.24
8021883	WWAK3-1,5-WAS3/S398	11.9	8022198	WSP3-10/S74	5.24
8021921	WWAK5P3-2/S398	2.22	8022199	WSP3-2/S366	5.24
8021922	WWAK5P3-5/S398	2.22	8022200	WSP3-5/S366	5.24
8021923	WWAK5P3-10/S398	2.22	8022201	WSP3-10/S366	5.24
8021939	WWAK5P3-2/S366/S367	2.22	8022202	WSP4-2/P00	5.24
8021940	WWAK5P3-5/S366/S367	2.22	8022203	WSP4-5/P00	5.24
8021941	WWAK5P3-10/S366/S367	2.22	8022204	WSP4-10/P00	5.24
8021980	WWAK5P3-2-WAS5/S398	11.30	8022205	WSP4-2/S90	5.24
8022012	WKP3P2-1-WAS3/S74	11.49	8022206	WSP4-5/S90	5.24
8022013	WKP3P2-1,5-WAS3/S74	11.49	8022207	WSP4-10/S90	5.24
8022014	WWAKS8-5/P00	2.25	8022208	WSP4-2/XOR	5.24
8022015	WWAKS8-10/P00	2.25	8022209	WSP4-5/XOR	5.24
8022016	WWAKS8-5/S366	2.25	8022210	WSP4-10/XOR	5.24
8022017	WWAKS8-10/S366	2.25	8022251	WWAK5P3.1-0,3-WWAS5/XOR	11.36
8022018	WWASS8-5/P00	2.48	8022252	WWAK5P3.1-0,6-WWAS5/XOR	11.36
8022019	WWASS8-10/P00	2.48	8022253	WWAK5P3.1-1-WWAS5/XOR	11.36
8022020	WWASS8-5/S366	2.48	8022254	WWAK5P3.1-2-WWAS5/XOR	11.36
8022021	WWASS8-10/S366	2.48	8022256	WWAK5P3.1-0,3-WWAS5/S74	11.36
8022022	WWAKS8-2-WWASS8/P00	11.24	8022257	WWAK5P3.1-0,6-WWAS5/S74	11.36
8022023	WWAKS8-5-WWASS8/P00	11.24	8022258	WWAK5P3.1-1-WWAS5/S74	11.36
8022025	WWAKS8-2-WWASS8/S366	11.24	8022259	WWAK5P3.1-1,5-WWAS5/S74	11.36
8022026	WWAKS8-5-WWASS8/S366	11.24	8022260	WWAK5P3.1-2-WWAS5/S74	11.36
8022126	WWAK4P3-0,3-WWAS4/P00	11.31	8022261	WWAK5P3.1-5-WWAS5/S74	11.36
8022127	WWAK4P3-0,6-WWAS4/P00	11.31	8022263	WWAK5P3.1-0,3-WWAS5/P00	11.36
8022128	WWAK4P3-1-WWAS4/P00	11.31	8022264	WWAK5P3.1-0,6-WWAS5/P00	11.36
8022129	WWAK4P3-1,5-WWAS4/P00	11.31	8022265	WWAK5P3.1-1-WWAS5/P00	11.36
8022130	WWAK4P3-2-WWAS4/P00	11.31	8022266	WWAK5P3.1-1,5-WWAS5/P00	11.36
8022131	WWAK4P3-5-WWAS4/P00	11.31	8022267	WWAK5P3.1-2-WWAS5/P00	11.36
8022134	WWAK4P3-0,3-WWAS4/XOR	11.31	8022268	WWAK5P3.1-5-WWAS5/P00	11.36
8022135	WWAK4P3-0,6-WWAS4/XOR	11.31	8022271	WWAK5P3.1-0,6-WWAS5/S90	11.36
8022136	WWAK4P3-1,5-WWAS4/XOR	11.31	8022272	WWAK5P3.1-1-WWAS5/S90	11.36
8022137	WWAK4P3-2-WWAS4/XOR	11.31	8022273	WWAK5P3.1-1,5-WWAS5/S90	11.36
8022139	WWAK4P3-5-WWAS4/XOR	11.31	8022275	WWAK5P3.1-2-WWAS5/S90	11.36
8022142	WWAK4P3-0,3-WWAS4/S74	11.31	8022276	WWAK5P3.1-5-WWAS5/S90	11.36
8022146	WWAK4P3-0,6-WWAS4/S74	11.31	8022308	WWAK5P3-0,3-WWAS5/S366	11.32
8022147	WWAK4P3-1-WWAS4/S74	11.31	8022309	WWAK5P3-0,6-WWAS5/S366	11.32
8022150	WWAK4P3-1,5-WWAS4/S74	11.31	8022329	WWAK5P3-1-WWAS5/S366	11.32
8022151	WWAK4P3-2-WWAS4/S74	11.31	8022330	WWAK5P3-1,5-WWAS5/S366	11.32

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8022332	WWAK5P3-5-WWAS5/S366	11.32	8022502	KP4-0,3-SP4/P00	11.56
8022334	WWAK5P3-0,3-WWAS5/S398	11.32	8022503	KP4-0,6-SP4/P00	11.56
8022335	WWAK5P3-0,6-WWAS5/S398	11.32	8022504	KP4-1,5-SP4/P00	11.56
8022336	WWAK5P3-1-WWAS5/S398	11.32	8022505	KP4-5-SP4/P00	11.56
8022337	WWAK5P3-1,5-WWAS5/S398	11.32	8022508	KP4-0,3-SP4/S90	11.56
8022338	WWAK5P3-2-WWAS5/S398	11.32	8022509	KP4-0,6-SP4/S90	11.56
8022339	WWAK5P3-5-WWAS5/S398	11.32	8022510	KP4-1-SP4/S90	11.56
8022342	WWAK5P3.1-0,3-WWAS5/S398	11.36	8022511	KP4-1,5-SP4/S90	11.56
8022343	WWAK5P3.1-0,6-WWAS5/S398	11.36	8022512	KP4-2-SP4/S90	11.56
8022344	WWAK5P3.1-1,5-WWAS5/S398	11.36	8022513	KP4-5-SP4/S90	11.56
8022345	WWAK5P3.1-2-WWAS5/S398	11.36	8022515	KP4-0,3-SP4/XOR	11.56
8022346	WWAK5P3.1-5-WWAS5/S398	11.36	8022516	KP4-0,6-SP4/XOR	11.56
8022413	WWAK4P3.1-0,3-WAS4/S366	11.33	8022517	KP4-1-SP4/XOR	11.56
8022414	WWAK4P3.1-0,6-WAS4/S366	11.33	8022518	KP4-1,5-SP4/XOR	11.56
8022415	WWAK4P3.1-1-WAS4/S366	11.33	8022519	KP4-2-SP4/XOR	11.56
8022416	WWAK4P3.1-1,5-WAS4/S366	11.33	8022520	KP4-5-SP4/XOR	11.56
8022417	WWAK4P3.1-2-WAS4/S366	11.33	8022536	ZKP3-0,3-SP3/P00	11.57
8022418	WWAK4P3.1-5-WAS4/S366	11.33	8022537	ZKP3-0,6-SP3/P00	11.57
8022420	WWAK4P3.1-5-WAS4/S398	11.33	8022538	ZKP3-1-SP3/P00	11.57
8022422	WWAK5P3.1-0,3-WAS5/S366	11.34	8022539	ZKP3-1,5-SP3/P00	11.57
8022423	WWAK5P3.1-0,6-WAS5/S366	11.34	8022540	ZKP3-5-SP3/P00	11.57
8022424	WWAK5P3.1-1-WAS5/S366	11.34	8022542	ZKP3-0,3-SP3/S90	11.57
8022425	WWAK5P3.1-1,5-WAS5/S366	11.34	8022543	ZKP3-0,6-SP3/S90	11.57
8022426	WWAK5P3.1-2-WAS5/S366	11.34	8022545	ZKP3-0,3-SP3/XOR	11.57
8022427	WWAK5P3.1-5-WAS5/S366	11.34	8022546	ZKP3-0,6-SP3/XOR	11.57
8022430	WWAK4P3.1-0,3-WWAS4/S366	11.35	8022547	ZKP3-1-SP3/XOR	11.57
8022431	WWAK4P3.1-0,6-WWAS4/S366	11.35	8022548	ZKP3-1,5-SP3/XOR	11.57
8022432	WWAK4P3.1-1-WWAS4/S366	11.35	8022549	ZKP3-5-SP3/XOR	11.57
8022433	WWAK4P3.1-1,5-WWAS4/S366	11.35	8022551	ZKP3-0,3-SP3/S74	11.57
8022434	WWAK4P3.1-2-WWAS4/S366	11.35	8022552	ZKP3-0,6-SP3/S74	11.57
8022435	WWAK4P3.1-5-WWAS4/S366	11.35	8022553	ZKP3-1-SP3/S74	11.57
8022437	WWAK5P3.1-0,3-WWAS5/S366	11.36	8022554	ZKP3-1,5-SP3/S74	11.57
8022438	WWAK5P3.1-0,6-WWAS5/S366	11.36	8022555	ZKP3-5-SP3/S74	11.57
8022439	WWAK5P3.1-1-WWAS5/S366	11.36	8022557	ZKP3-0,3-SP3/S366	11.57
8022440	WWAK5P3.1-1,5-WWAS5/S366	11.36	8022558	ZKP3-0,6-SP3/S366	11.57
8022441	WWAK5P3.1-2-WWAS5/S366	11.36	8022559	ZKP3-1-SP3/S366	11.57
8022442	WWAK5P3.1-5-WWAS5/S366	11.36	8022560	ZKP3-1,5-SP3/S366	11.57
8022470	KP3-0,3-SP3/P00	11.55	8022561	ZKP3-2-SP3/S366	11.57
8022471	KP3-0,6-SP3/P00	11.55	8022562	ZKP3-5-SP3/S366	11.57
8022472	KP3-1-SP3/P00	11.55	8022573	SKP4-0,3-SSP4/S90	11.60
8022473	KP3-1,5-SP3/P00	11.55	8022574	WAKS8-5-WASS8/S366	11.8
8022476	KP3-0,3-SP3/XOR	11.55	8022577	WAKS4-5-WASS4/S366	11.6
8022477	KP3-0,6-SP3/XOR	11.55	8022587	WKP4P2-1,5-WAS4/S90	11.50
8022478	KP3-1-SP3/XOR	11.55	8022633	ZKP4-0,6-SP4/P00	11.58
8022479	KP3-1,5-SP3/XOR	11.55	8022634	ZKP4-1-SP4/P00	11.58
8022480	KP3-5-SP3/XOR	11.55	8022635	ZKP4-1,5-SP4/P00	11.58
8022482	KP3-0,3-SP3/S74	11.55	8022636	ZKP4-2-SP4/P00	11.58
8022483	KP3-0,6-SP3/S74	11.55	8022637	ZKP4-5-SP4/P00	11.58
8022484	KP3-1-SP3/S74	11.55	8022639	ZKP4-0,3-SP4/S90	11.58
8022485	KP3-1,5-SP3/S74	11.55	8022640	ZKP4-0,6-SP4/S90	11.58
8022486	KP3-5-SP3/S74	11.55	8022641	ZKP4-1-SP4/S90	11.58
8022488	KP3-0,3-SP3/S366	11.55	8022642	ZKP4-1,5-SP4/S90	11.58
8022489	KP3-0,6-SP3/S366	11.55	8022643	ZKP4-2-SP4/S90	11.58
8022490	KP3-1-SP3/S366	11.55	8022644	ZKP4-5-SP4/S90	11.58
8022491	KP3-1,5-SP3/S366	11.55	8022646	ZKP4-0,3-SP4/XOR	11.58
8022492	KP3-2-SP3/S366	11.55	8022647	ZKP4-0,6-SP4/XOR	11.58

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8022649	ZKP4-1,5-SP4/XOR	11.58	8022783	SKP3-2-SSP3/S366	11.59
8022650	ZKP4-2-SP4/XOR	11.58	8022784	SKP3-5-SSP3/S366	11.59
8022651	ZKP4-5-SP4/XOR	11.58	8022810	WAKS8-2-WASS8/S366	11.8
8022667	WKP3-0,3-SP3/P00	11.63	8022816	FB-WWAK4-10/P00	2.27
8022668	WKP3-0,6-SP3/P00	11.63	8022835	WAK3-0,3-WAS3/S366	11.1
8022669	WKP3-1-SP3/P00	11.63	8022836	WAK3-0,6-WAS3/S366	11.1
8022670	WKP3-1,5-SP3/P00	11.63	8022837	WAK3-1-WAS3/S366	11.1
8022671	WKP3-2-SP3/P00	11.63	8022838	WAK3-1,5-WAS3/S366	11.1
8022672	WKP3-5-SP3/P00	11.63	8022839	WAK3-2-WAS3/S366	11.1
8022674	WKP3-0,6-SP3/S90	11.63	8022840	WAK3-5-WAS3/S366	11.1
8022675	WKP3-1-SP3/S90	11.63	8022846	WAK4-0,3-WAS4/S366	11.2
8022676	WKP3-1,5-SP3/S90	11.63	8022847	WAK4-0,6-WAS4/S366	11.2
8022677	WKP3-2-SP3/S90	11.63	8022848	WAK4-1-WAS4/S366	11.2
8022678	WKP3-5-SP3/S90	11.63	8022849	WAK4-1,5-WAS4/S366	11.2
8022680	WKP3-0,3-SP3/XOR	11.63	8022850	WAK4-2-WAS4/S366	11.2
8022681	WKP3-0,6-SP3/XOR	11.63	8022851	WAK4-5-WAS4/S366	11.2
8022682	WKP3-1-SP3/XOR	11.63	8022853	WAK5-0,3-WAS5/S366	11.3
8022683	WKP3-1,5-SP3/XOR	11.63	8022854	WAK5-0,6-WAS5/S366	11.3
8022684	WKP3-2-SP3/XOR	11.63	8022855	WAK5-1-WAS5/S366	11.3
8022685	WKP3-5-SP3/XOR	11.63	8022856	WAK5-1,5-WAS5/S366	11.3
8022687	WKP3-0,3-SP3/S74	11.63	8022857	WAK5-2-WAS5/S366	11.3
8022688	WKP3-0,6-SP3/S74	11.63	8022858	WAK5-5-WAS5/S366	11.3
8022689	WKP3-1-SP3/S74	11.63	8022862	WAK8-0,3-WAS8/P00	11.4
8022690	WKP3-1,5-SP3/S74	11.63	8022863	WAK8-0,6-WAS8/P00	11.4
8022691	WKP3-2-SP3/S74	11.63	8022864	WAK8-1,5-WAS8/P00	11.4
8022692	WKP3-5-SP3/S74	11.63	8022865	WAK8-2-WAS8/P00	11.4
8022699	WAKS4.5-1-WASS4.5/S366	11.7	8022866	WAK8-5-WAS8/P00	11.4
8022700	WAKS4.5-2-WASS4.5/S366	11.7	8022868	WAK8-0,3-WAS8/S366	11.4
8022702	WAKS4.5-5-WASS4.5/S366	11.7	8022869	WAK8-0,6-WAS8/S366	11.4
8022703	WAKS4.5-0,3-WASS4.5/S366	11.7	8022870	WAK8-1-WAS8/S366	11.4
8022704	WAKS4.5-0,6-WASS4.5/S366	11.7	8022871	WAK8-1,5-WAS8/S366	11.4
8022705	WAKS4.5-1,5-WASS4.5/S366	11.7	8022872	WAK8-2-WAS8/S366	11.4
8022720	WKP3-0,3-SP3/S366	11.63	8022873	WAK8-5-WAS8/S366	11.4
8022721	WKP3-0,6-SP3/S366	11.63	8022877	WAKS3-0,3-WASS3/S366	11.5
8022722	WKP3-1-SP3/S366	11.63	8022878	WAKS3-0,6-WASS3/S366	11.5
8022723	WKP3-1,5-SP3/S366	11.63	8022879	WAKS3-1-WASS3/S366	11.5
8022724	WKP3-2-SP3/S366	11.63	8022880	WAKS3-1,5-WASS3/S366	11.5
8022725	WKP3-5-SP3/S366	11.63	8022881	WAKS3-2-WASS3/S366	11.5
8022736	WAKS4-2-WASS4/S366	11.6	8022882	WAKS3-5-WASS3/S366	11.5
8022742	SKP3-5-SSP3/P00	11.59	8022884	WAKS4-0,3-WASS4/S366	11.6
8022743	SKP3-0,3-SSP3/XOR	11.59	8022885	WAKS4-0,6-WASS4/S366	11.6
8022744	SKP3-0,6-SSP3/XOR	11.59	8022886	WAKS4-1-WASS4/S366	11.6
8022745	SKP3-1-SSP3/XOR	11.59	8022887	WAKS4-1,5-WASS4/S366	11.6
8022746	SKP3-1,5-SSP3/XOR	11.59	8022889	WAKS4.5-0,3-WASS4.5/P00	11.7
8022747	SKP3-5-SSP3/XOR	11.59	8022890	WAKS4.5-0,6-WASS4.5/P00	11.7
8022749	SKP3-5-SSP3/S74	11.59	8022891	WAKS4.5-1-WASS4.5/P00	11.7
8022751	SKP4-0,6-SSP4/P00	11.60	8022892	WAKS4.5-1,5-WASS4.5/P00	11.7
8022753	SKP4-1,5-SSP4/S90	11.60	8022893	WAKS4.5-2-WASS4.5/P00	11.7
8022755	SKP4-0,3-SSP4/XOR	11.60	8022894	WAKS4.5-5-WASS4.5/P00	11.7
8022756	SKP4-0,6-SSP4/XOR	11.60	8022897	WAKS8-0,3-WASS8/P00	11.8
8022757	SKP4-1-SSP4/XOR	11.60	8022898	WAKS8-0,6-WASS8/P00	11.8
8022758	SKP4-1,5-SSP4/XOR	11.60	8022899	WAKS8-1-WASS8/P00	11.8
8022759	SKP4-5-SSP4/XOR	11.60	8022900	WAKS8-1,5-WASS8/P00	11.8
8022779	SKP3-0,3-SSP3/S366	11.59	8022901	WAKS8-2-WASS8/P00	11.8
8022780	SKP3-0,6-SSP3/S366	11.59	8022902	WAKS8-5-WASS8/P00	11.8
8022781	SKP3-1-SSP3/S366	11.59	8022904	WAKS8-0,3-WASS8/S366	11.8

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8022906	WAKS8-1,5-WAS8/S366	11.8	8022975	WWAK5-5-WWAS5/S366	11.19
8022908	WWAK3-0,3-WAS3/S366	11.9	8022977	WWAK3P2-0,3-WAS3/S366	11.25
8022909	WWAK3-0,6-WAS3/S366	11.9	8022978	WWAK3P2-0,6-WAS3/S366	11.25
8022910	WWAK3-1-WAS3/S366	11.9	8022979	WWAK3P2-1-WAS3/S366	11.25
8022911	WWAK3-1,5-WAS3/S366	11.9	8022980	WWAK3P2-1,5-WAS3/S366	11.25
8022912	WWAK3-2-WAS3/S366	11.9	8022981	WWAK3P2-2-WAS3/S366	11.25
8022913	WWAK3-5-WAS3/S366	11.9	8022982	WWAK3P2-5-WAS3/S366	11.25
8022915	WWAK3-0,3-WAS3/S398	11.9	8022984	WWAK4P2-0,3-WAS4/S366	11.26
8022916	WWAK3-0,6-WAS3/S398	11.9	8022985	WWAK4P2-0,6-WAS4/S366	11.26
8022917	WWAK3-2-WAS3/S398	11.9	8022986	WWAK4P2-1-WAS4/S366	11.26
8022918	WWAK3-5-WAS3/S398	11.9	8022987	WWAK4P2-1,5-WAS4/S366	11.26
8022920	WWAK4-0,3-WAS4/S366	11.10	8022988	WWAK4P2-2-WAS4/S366	11.26
8022921	WWAK4-0,6-WAS4/S366	11.10	8022989	WWAK4P2-5-WAS4/S366	11.26
8022922	WWAK4-1-WAS4/S366	11.10	8023001	WWAK3P2-0,3-WWAS3/S366	11.27
8022923	WWAK4-1,5-WAS4/S366	11.10	8023002	WWAK3P2-0,6-WWAS3/S366	11.27
8022924	WWAK4-2-WAS4/S366	11.10	8023003	WWAK3P2-1-WWAS3/S366	11.27
8022925	WWAK4-5-WAS4/S366	11.10	8023004	WWAK3P2-1,5-WWAS3/S366	11.27
8022927	WWAK5-0,3-WAS5/S366	11.11	8023005	WWAK3P2-2-WWAS3/S366	11.27
8022928	WWAK5-0,6-WAS5/S366	11.11	8023006	WWAK3P2-5-WWAS3/S366	11.27
8022929	WWAK5-1-WAS5/S366	11.11	8023008	WWAK3P2-0,3-WWAS3/S398	11.27
8022930	WWAK5-1,5-WAS5/S366	11.11	8023010	WWAK4P2-0,3-WWAS4/S366	11.28
8022931	WWAK5-2-WAS5/S366	11.11	8023011	WWAK4P2-0,6-WWAS4/S366	11.28
8022932	WWAK5-5-WAS5/S366	11.11	8023012	WWAK4P2-1-WWAS4/S366	11.28
8022934	WWAK5-0,3-WAS5/S398	11.11	8023013	WWAK4P2-1,5-WWAS4/S366	11.28
8022935	WWAK5-5-WAS5/S398	11.11	8023014	WWAK4P2-2-WWAS4/S366	11.28
8022937	WWAK8-0,3-WAS8/P00	11.12	8023015	WWAK4P2-5-WWAS4/S366	11.28
8022938	WWAK8-0,6-WAS8/P00	11.12	8023017	WWAK4P3-0,3-WAS4/S366	11.29
8022939	WWAK8-1-WAS8/P00	11.12	8023018	WWAK4P3-0,6-WAS4/S366	11.29
8022940	WWAK8-1,5-WAS8/P00	11.12	8023019	WWAK4P3-1-WAS4/S366	11.29
8022941	WWAK8-2-WAS8/P00	11.12	8023020	WWAK4P3-1,5-WAS4/S366	11.29
8022942	WWAK8-5-WAS8/P00	11.12	8023021	WWAK4P3-2-WAS4/S366	11.29
8022944	WWAK8-0,3-WAS8/S366	11.12	8023022	WWAK4P3-5-WAS4/S366	11.29
8022945	WWAK8-0,6-WAS8/S366	11.12	8023024	WWAK4P3-5-WWAS4/S398	11.31
8022946	WWAK8-1-WAS8/S366	11.12	8023026	WWAK5P3-1,0-WAS5/S398	11.30
8022947	WWAK8-1,5-WAS8/S366	11.12	8023027	WWAK5P3-1,5-WAS5/S398	11.30
8022948	WWAK8-2-WAS8/S366	11.12	8023037	WWAK5P3-0,3-WAS5/S366	11.30
8022949	WWAK8-5-WAS8/S366	11.12	8023038	WWAK5P3-0,6-WAS5/S366	11.30
8022951	WWAK3-0,3-WWAS3/S366	11.17	8023039	WWAK5P3-1-WAS5/S366	11.30
8022952	WWAK3-0,6-WWAS3/S366	11.17	8023040	WWAK5P3-1,5-WAS5/S366	11.30
8022953	WWAK3-1-WWAS3/S366	11.17	8023041	WWAK5P3-2-WAS5/S366	11.30
8022954	WWAK3-1,5-WWAS3/S366	11.17	8023042	WWAK5P3-5-WAS5/S366	11.30
8022955	WWAK3-2-WWAS3/S366	11.17	8023044	WWAK4P3-0,3-WWAS4/S366	11.31
8022956	WWAK3-5-WWAS3/S366	11.17	8023045	WWAK4P3-0,6-WWAS4/S366	11.31
8022958	WWAK3-0,3-WWAS3/S398	11.17	8023046	WWAK4P3-1-WWAS4/S366	11.31
8022959	WWAK3-0,6-WWAS3/S398	11.17	8023047	WWAK4P3-1,5-WWAS4/S366	11.31
8022960	WWAK3-1,5-WWAS3/S398	11.17	8023048	WWAK4P3-2-WWAS4/S366	11.31
8022962	WWAK4-0,3-WWAS4/S366	11.18	8023049	WWAK4P3-5-WWAS4/S366	11.31
8022963	WWAK4-0,6-WWAS4/S366	11.18	8023051	WWAK5P3-0,3-WWAS5/P00	11.32
8022964	WWAK4-1-WWAS4/S366	11.18	8023052	WWAK5P3-0,6-WWAS5/P00	11.32
8022965	WWAK4-1,5-WWAS4/S366	11.18	8023053	WWAK5P3-1-WWAS5/P00	11.32
8022966	WWAK4-2-WWAS4/S366	11.18	8023054	WWAK5P3-1,5-WWAS5/P00	11.32
8022967	WWAK4-5-WWAS4/S366	11.18	8023055	WWAK5P3-2-WWAS5/P00	11.32
8022970	WWAK5-0,3-WWAS5/S366	11.19	8023056	WWAK5P3-5-WWAS5/P00	11.32
8022971	WWAK5-0,6-WWAS5/S366	11.19	8023058	WWAK5-0,3-WWAS5/S398	11.19
8022972	WWAK5-1-WWAS5/S366	11.19	8023059	WWAK5-0,6-WWAS5/S398	11.19
8022973	WWAK5-1,5-WWAS5/S366	11.19	8023060	WWAK5-1-WWAS5/S398	11.19

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8023062	WWAK5-2-WWAS5/S398	11.19	8023137	SWKP3P2-1,5-SWSP3/S90	11.77
8023063	WWAK5-5-WWAS5/S398	11.19	8023138	SWKP3P2-2-SWSP3/S90	11.77
8023065	WWAK4P2-0,3-WWAS4/S398	11.28	8023139	SWKP3P2-5-SWSP3/S90	11.77
8023066	WWAK4P2-0,6-WWAS4/S398	11.28	8023141	SWKP3P2-0,3-SWSP3/XOR	11.77
8023067	WWAK4P2-1-WWAS4/S398	11.28	8023142	SWKP3P2-0,6-SWSP3/XOR	11.77
8023068	WWAK4P2-1,5-WWAS4/S398	11.28	8023143	SWKP3P2-1-SWSP3/XOR	11.77
8023069	WWAK4P2-2-WWAS4/S398	11.28	8023144	SWKP3P2-1,5-SWSP3/XOR	11.77
8023070	WWAK4P2-5-WWAS4/S398	11.28	8023146	SWKP3P2-0,3-SWSP3/S74	11.77
8023072	WWAKS8-0,3-WWAS8/P00	11.24	8023147	SWKP3P2-0,6-SWSP3/S74	11.77
8023073	WWAKS8-0,6-WWAS8/P00	11.24	8023148	SWKP3P2-1-SWSP3/S74	11.77
8023074	WWAKS8-1-WWAS8/P00	11.24	8023149	SWKP3P2-1,5-SWSP3/S74	11.77
8023075	WWAKS8-1,5-WWAS8/P00	11.24	8023150	SWKP3P2-2-SWSP3/S74	11.77
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8023077	WWAKS8-0,6-WWAS8/S366	11.24	8023163	WWAKS3-0,3-WASS3/P00	11.13
8023078	WWAKS8-1-WWAS8/S366	11.24	8023164	WWAKS3-0,6-WASS3/P00	11.13
8023079	WWAKS8-1,5-WWAS8/S366	11.24	8023165	WWAKS3-1-WASS3/P00	11.13
8023080	SWKP3-5-SSP3/P00	11.67	8023166	WWAKS3-1,5-WASS3/P00	11.13
8023083	SWKP3-0,3-SSP3/XOR	11.67	8023167	WWAKS3-2-WASS3/P00	11.13
8023084	SWKP3-0,6-SSP3/XOR	11.67	8023168	WWAKS3-5-WASS3/P00	11.13
8023085	SWKP3-1-SSP3/XOR	11.67	8023170	WWAKS3-0,3-WASS3/S366	11.13
8023086	SWKP3-1,5-SSP3/XOR	11.67	8023171	WWAKS3-0,6-WASS3/S366	11.13
8023087	SWKP3-5-SSP3/XOR	11.67	8023172	WWAKS3-1-WASS3/S366	11.13
8023089	SWKP3-0,6-SSP3/S74	11.67	8023173	WWAKS3-1,5-WASS3/S366	11.13
8023090	SWKP3-1-SSP3/S74	11.67	8023174	WWAKS3-2-WASS3/S366	11.13
8023091	SWKP3-1,5-SSP3/S74	11.67	8023175	WWAKS3-5-WASS3/S366	11.13
8023092	SWKP3-5-SSP3/S74	11.67	8023177	WWAKS4-0,3-WASS4/P00	11.14
8023094	SWKP3-0,3-SSP3/S366	11.67	8023178	WWAKS4-0,6-WASS4/P00	11.14
8023095	SWKP3-0,6-SSP3/S366	11.67	8023179	WWAKS4-1-WASS4/P00	11.14
8023096	SWKP3-1-SSP3/S366	11.67	8023180	WWAKS4-1,5-WASS4/P00	11.14
8023097	SWKP3-1,5-SSP3/S366	11.67	8023181	WWAKS4-2-WASS4/P00	11.14
8023098	SWKP3-2-SSP3/S366	11.67	8023182	WWAKS4-5-WASS4/P00	11.14
8023099	SWKP3-5-SSP3/S366	11.67	8023184	WWAKS4-0,3-WASS4/S366	11.14
8023107	SWKP3P2-0,3-SSP3/P00	11.73	8023185	WWAKS4-0,6-WASS4/S366	11.14
8023108	SWKP3P2-0,6-SSP3/P00	11.73	8023186	WWAKS4-1-WASS4/S366	11.14
8023109	SWKP3P2-1-SSP3/P00	11.73	8023187	WWAKS4-1,5-WASS4/S366	11.14
8023110	SWKP3P2-1,5-SSP3/P00	11.73	8023189	WWAKS4-2-WASS4/S366	11.14
8023111	SWKP3P2-2-SSP3/P00	11.73	8023190	WWAKS4-5-WASS4/S366	11.14
8023112	SWKP3P2-5-SSP3/P00	11.73	8023192	WWAKS4.5-0,3-WASS4.5/P00	11.15
8023114	SWKP3P2-5-SSP3/S90	11.73	8023193	WWAKS4.5-0,6-WASS4.5/P00	11.15
8023116	SWKP3P2-1,5-SSP3/XOR	11.73	8023194	WWAKS4.5-1-WASS4.5/P00	11.15
8023117	SWKP3P2-2-SSP3/XOR	11.73	8023195	WWAKS4.5-1,5-WASS4.5/P00	11.15
8023118	SWKP3P2-5-SSP3/XOR	11.73	8023196	WWAKS4.5-2-WASS4.5/P00	11.15
8023120	SWKP3P2-0,3-SSP3/S74	11.73	8023197	WWAKS4.5-5-WASS4.5/P00	11.15
8023121	SWKP3P2-0,6-SSP3/S74	11.73	8023199	WWAKS4.5-0,3-WASS4.5/S366	11.15
8023122	SWKP3P2-1-SSP3/S74	11.73	8023200	WWAKS4.5-0,6-WASS4.5/S366	11.15
8023123	SWKP3P2-1,5-SSP3/S74	11.73	8023201	WWAKS4.5-1-WASS4.5/S366	11.15
8023124	SWKP3P2-2-SSP3/S74	11.73	8023202	WWAKS4.5-1,5-WASS4.5/S366	11.15
8023125	SWKP3P2-5-SSP3/S74	11.73	8023203	WWAKS4.5-2-WASS4.5/S366	11.15
8023127	SWKP3P2-0,3-SWSP3/P00	11.77	8023204	WWAKS4.5-5-WASS4.5/S366	11.15
8023128	SWKP3P2-0,6-SWSP3/P00	11.77	8023206	WWAKS8-0,3-WASS8/P00	11.16
8023129	SWKP3P2-1-SWSP3/P00	11.77	8023207	WWAKS8-0,6-WASS8/P00	11.16
8023130	SWKP3P2-1,5-SWSP3/P00	11.77	8023208	WWAKS8-1-WASS8/P00	11.16
8023131	SWKP3P2-2-SWSP3/P00	11.77	8023209	WWAKS8-1,5-WASS8/P00	11.16
8023132	SWKP3P2-5-SWSP3/P00	11.77	8023210	WWAKS8-2-WASS8/P00	11.16
8023134	SWKP3P2-0,3-SWSP3/S90	11.77	8023211	WWAKS8-5-WASS8/P00	11.16
8023135	SWKP3P2-0,6-SWSP3/S90	11.77	8023213	WWAKS8-0,3-WASS8/S366	11.16

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8023214	WWAKS8-0,6-WASS8/S366	11.16	8023308	WWAK5P3-2-WWAS5/S90	11.32
8023215	WWAKS8-1-WASS8/S366	11.16	8023309	WWAK5P3-5-WWAS5/S90	11.32
8023216	WWAKS8-1,5-WASS8/S366	11.16	8023311	WWAK5P3-0,3-WWAS5/XOR	11.32
8023217	WWAKS8-2-WASS8/S366	11.16	8023312	WWAK5P3-0,6-WWAS5/XOR	11.32
8023218	WWAKS8-5-WASS8/S366	11.16	8023313	WWAK5P3-1-WWAS5/XOR	11.32
8023224	WWAK8-0,3-WWAS8/P00	11.20	8023314	WWAK5P3-1,5-WWAS5/XOR	11.32
8023225	WWAK8-0,6-WWAS8/P00	11.20	8023315	WWAK5P3-2-WWAS5/XOR	11.32
8023227	WWAK8-1-WWAS8/P00	11.20	8023316	WWAK5P3-5-WWAS5/XOR	11.32
8023228	WWAK8-1,5-WWAS8/P00	11.20	8023318	WWAK5P3-0,3-WWAS5/S74	11.32
8023229	WWAK8-2-WWAS8/P00	11.20	8023319	WWAK5P3-0,6-WWAS5/S74	11.32
8023230	WWAK8-5-WWAS8/P00	11.20	8023320	WWAK5P3-1-WWAS5/S74	11.32
8023232	WWAK8-0,3-WWAS8/S366	11.20	8023321	WWAK5P3-1,5-WWAS5/S74	11.32
8023234	WWAK8-0,6-WWAS8/S366	11.20	8023322	WWAK5P3-2-WWAS5/S74	11.32
8023235	WWAK8-1-WWAS8/S366	11.20	8023323	WWAK5P3-5-WWAS5/S74	11.32
8023237	WWAK8-1,5-WWAS8/S366	11.20	8023325	SWKP3P2-0,3-SSP3/S366	11.73
8023238	WWAK8-2-WWAS8/S366	11.20	8023326	SWKP3P2-0,6-SSP3/S366	11.73
8023239	WWAK8-5-WWAS8/S366	11.20	8023327	SWKP3P2-1-SSP3/S366	11.73
8023262	WWAKS3-0,3-WWASS3/P00	11.21	8023328	SWKP3P2-1,5-SSP3/S366	11.73
8023263	WWAKS3-0,6-WWASS3/P00	11.21	8023329	SWKP3P2-2-SSP3/S366	11.73
8023264	WWAKS3-1-WWASS3/P00	11.21	8023330	SWKP3P2-5-SSP3/S366	11.73
8023265	WWAKS3-1,5-WWASS3/P00	11.21	8023339	SWKP3P2-0,3-SWSP3/S366	11.77
8023266	WWAKS3-2-WWASS3/P00	11.21	8023340	SWKP3P2-0,6-SWSP3/S366	11.77
8023267	WWAKS3-5-WWASS3/P00	11.21	8023341	SWKP3P2-1-SWSP3/S366	11.77
8023269	WWAKS3-0,3-WWASS3/S366	11.21	8023342	SWKP3P2-1,5-SWSP3/S366	11.77
8023270	WWAKS3-0,6-WWASS3/S366	11.21	8023343	SWKP3P2-2-SWSP3/S366	11.77
8023271	WWAKS3-1-WWASS3/S366	11.21	8023344	SWKP3P2-5-SWSP3/S366	11.77
8023272	WWAKS3-1,5-WWASS3/S366	11.21	8023365	KP3-2/S366	5.1
8023273	WWAKS3-2-WWASS3/S366	11.21	8023366	KP3-5/S366	5.1
8023274	WWAKS3-5-WWASS3/S366	11.21	8023367	KP3-10/S366	5.1
8023276	WWAKS4-0,3-WWASS4/P00	11.22	8023368	KP3-5/S77/S398	5.1
8023277	WWAKS4-0,6-WWASS4/P00	11.22	8023369	KP3-10/S77/S398	5.1
8023278	WWAKS4-1-WWASS4/P00	11.22	8023370	KP4-2/S77/S366	5.1
8023279	WWAKS4-1,5-WWASS4/P00	11.22	8023371	KP4-5/S77/S366	5.1
8023280	WWAKS4-2-WWASS4/P00	11.22	8023372	KP4-10/S77/S366	5.1
8023281	WWAKS4-5-WWASS4/P00	11.22	8023373	KP4-2/S77/S398	5.1
8023283	WWAKS4-0,3-WWASS4/S366	11.22	8023374	KP4-5/S77/S398	5.1
8023284	WWAKS4-0,6-WWASS4/S366	11.22	8023375	KP4-10/S77/S398	5.1
8023285	WWAKS4-1-WWASS4/S366	11.22	8023376	ZKP3-2/S366	5.3
8023286	WWAKS4-1,5-WWASS4/S366	11.22	8023377	ZKP3-5/S366	5.3
8023287	WWAKS4-2-WWASS4/S366	11.22	8023378	ZKP3-10/S366	5.3
8023288	WWAKS4-5-WWASS4/S366	11.22	8023379	ZKP3-2/S77/S398	5.3
8023290	WWAKS4.5-0,3-WWASS4.5/P00	11.23	8023380	ZKP3-5/S77/S398	5.3
8023291	WWAKS4.5-0,6-WWASS4.5/P00	11.23	8023381	ZKP3-10/S77/S398	5.3
8023292	WWAKS4.5-1-WWASS4.5/P00	11.23	8023382	ZKP4-2/S77/S366	5.3
8023293	WWAKS4.5-1,5-WWASS4.5/P00	11.23	8023383	ZKP4-5/S77/S366	5.3
8023294	WWAKS4.5-2-WWASS4.5/P00	11.23	8023384	ZKP4-10/S77/S366	5.3
8023295	WWAKS4.5-5-WWASS4.5/P00	11.23	8023385	ZKP4-2/S77/S398	5.3
8023297	WWAKS4.5-0,3-WWASS4.5/S366	11.23	8023386	ZKP4-5/S77/S398	5.3
8023298	WWAKS4.5-0,6-WWASS4.5/S366	11.23	8023387	ZKP4-10/S77/S398	5.3
8023299	WWAKS4.5-1,0-WWASS4.5/S366	11.23	8023388	SKP3-2/S77/S398	5.5
8023300	WWAKS4.5-1,5-WWASS4.5/S366	11.23	8023389	SKP3-5/S77/S398	5.5
8023301	WWAKS4.5-2-WWASS4.5/S366	11.23	8023390	SP3-2/S366	5.17
8023302	WWAKS4.5-5-WWASS4.5/S366	11.23	8023391	SP3-5/S366	5.17
8023304	WWAK5P3-0,3-WWAS5/S90	11.32	8023392	SP3-10/S366	5.17
8023305	WWAK5P3-0,6-WWAS5/S90	11.32	8023393	SP3-2/S77/S398	5.17
8023306	WWAK5P3-1-WWAS5/S90	11.32	8023394	SP3-5/S77/S398	5.17
8023307	WWAK5P3-1,5-WWAS5/S90	11.32	8023395	SP3-10/S77/S398	5.17

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8023396	SP4-2/S77/S366	5.17	8023453	SWKP3-10/S77/S398	5.11
8023397	SP4-5/S77/S366	5.17	8023454	SWKP4-2/S77/S366	5.11
8023398	SP4-10/S77/S366	5.17	8023455	SWKP4-5/S77/S366	5.11
8023399	SP4-2/S77/S398	5.17	8023456	SWKP4-10/S77/S366	5.11
8023400	SP4-5/S77/S398	5.17	8023457	SWKP4-2/S77/S398	5.11
8023401	SP4-10/S77/S398	5.17	8023458	SWKP4-5/S77/S398	5.11
8023402	SSP3-2/S366	5.19	8023459	SWKP4-10/S77/S398	5.11
8023403	SSP3-5/S366	5.19	8023460	WKP3P2-2/S366	5.13
8023404	SSP3-10/S366	5.19	8023461	WKP3P2-5/S366	5.13
8023405	SSP3-2/S77/S398	5.19	8023462	WKP3P2-10/S366	5.13
8023406	SSP3-5/S77/S398	5.19	8023463	WKP3P2-2/S77/S398	5.13
8023407	SSP3-10/S77/S398	5.19	8023464	WKP3P2-5/S77/S398	5.13
8023408	SSFP3-2/S366	5.21	8023465	WKP3P2-10/S77/S398	5.13
8023409	SSFP3-5/S366	5.21	8023466	WKP4P2-2/S77/S366	5.13
8023410	SSFP3-10/S366	5.21	8023467	WKP4P2-5/S77/S366	5.13
8023411	SSFP3-2/S77/S398	5.21	8023468	WKP4P2-10/S77/S366	5.13
8023412	SSFP3-5/S77/S398	5.21	8023469	WKP4P2-2/S77/S398	5.13
8023413	SSFP3-10/S77/S398	5.21	8023470	WKP4P2-5/S77/S398	5.13
8023414	SSFP4-2/P00	5.21	8023471	WKP4P2-10/S77/S398	5.13
8023415	SSFP4-5/P00	5.21	8023472	ZWKP3P2-2/S366	5.14
8023416	SSFP4-10/P00	5.21	8023473	ZWKP3P2-5/S366	5.14
8023417	SSFP4-2/S90	5.21	8023474	ZWKP3P2-10/S366	5.14
8023418	SSFP4-5/S90	5.21	8023475	ZWKP3P2-2/S77/S398	5.14
8023419	SSFP4-10/S90	5.21	8023476	ZWKP3P2-5/S77/S398	5.14
8023420	SSFP4-2/XOR	5.21	8023477	ZWKP3P2-10/S77/S398	5.14
8023421	SSFP4-5/XOR	5.21	8023478	ZWKP4P2-2/S77/S366	5.14
8023422	SSFP4-10/XOR	5.21	8023479	ZWKP4P2-5/S77/S366	5.14
8023423	SSFP4-2/S77/S366	5.21	8023480	ZWKP4P2-10/S77/S366	5.14
8023424	SSFP4-5/S77/S366	5.21	8023481	ZWKP4P2-2/S77/S398	5.14
8023425	SSFP4-10/S77/S366	5.21	8023482	ZWKP4P2-5/S77/S398	5.14
8023426	SSFP4-2/S77/S398	5.21	8023483	ZWKP4P2-10/S77/S398	5.14
8023427	SSFP4-5/S77/S398	5.21	8023484	SWKP3P2-2/S366	5.15
8023428	SSFP4-10/S77/S398	5.21	8023485	SWKP3P2-5/S366	5.15
8023429	WKP3-2/S366	5.9	8023486	SWKP3P2-10/S366	5.15
8023430	WKP3-5/S366	5.9	8023487	SWKP3P2-2/S77/S398	5.15
8023431	WKP3-10/S366	5.9	8023488	SWKP3P2-5/S77/S398	5.15
8023432	WKP3-2/S77/S398	5.9	8023489	SWKP3P2-10/S77/S398	5.15
8023433	WKP3-5/S77/S398	5.9	8023490	SWKP4P2-2/S77/S366	5.15
8023434	WKP3-10/S77/S398	5.9	8023491	SWKP4P2-5/S77/S366	5.15
8023435	WKP4-2/S77/S366	5.9	8023492	SWKP4P2-10/S77/S366	5.15
8023436	WKP4-5/S77/S366	5.9	8023493	SWKP4P2-2/S77/S398	5.15
8023437	WKP4-10/S77/S366	5.9	8023494	SWKP4P2-5/S77/S398	5.15
8023438	WKP4-2/S77/S398	5.9	8023495	SWKP4P2-10/S77/S398	5.15
8023439	WKP4-5/S77/S398	5.9	8023496	WSP3-2/S77/S398	5.24
8023440	WKP4-10/S77/S398	5.9	8023497	WSP3-5/S77/S398	5.24
8023441	ZWKP3-2/S366	5.10	8023498	WSP3-10/S77/S398	5.24
8023442	ZWKP3-5/S366	5.10	8023499	SWSP3-2/S366	5.25
8023443	ZWKP3-10/S366	5.10	8023500	SWSP3-5/S366	5.25
8023444	ZWKP3-5/S77/S398	5.10	8023501	SWSP3-10/S366	5.25
8023445	ZWKP4-2/S77/S366	5.10	8023502	SWSP3-2/S77/S398	5.25
8023446	ZWKP4-5/S77/S366	5.10	8023503	SWSP3-5/S77/S398	5.25
8023447	ZWKP4-10/S77/S366	5.10	8023504	SWSP3-10/S77/S398	5.25
8023448	ZWKP4-2/S77/S398	5.10	8023505	SWSP4-2/S77/S366	5.25
8023449	ZWKP4-5/S77/S398	5.10	8023506	SWSP4-5/S77/S366	5.25
8023450	ZWKP4-10/S77/S398	5.10	8023507	SWSP4-10/S77/S366	5.25
8023451	SWKP3-2/S77/S398	5.11	8023508	SWSP4-2/S77/S398	5.25
8023452	SWKP3-5/S77/S398	5.11	8023509	SWSP4-5/S77/S398	5.25

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8023510	SWSP4-10/S77/S398	5.25	8023783	SKP4-10/S77/S398	5.5
8023511	SKP3-10/S77/S398	5.5	8023784	SSP4-2/S77/S366	5.19
8023638	WKP4-0,3-SP4/P00	11.64	8023785	SSP4-5/S77/S366	5.19
8023639	WKP4-0,6-SP4/P00	11.64	8023786	SSP4-10/S77/S366	5.19
8023640	WKP4-1-SP4/P00	11.64	8023787	SSP4-2/S77/S398	5.19
8023641	WKP4-1,5-SP4/P00	11.64	8023788	SSP4-5/S77/S398	5.19
8023642	WKP4-2-SP4/P00	11.64	8023789	SSP4-10/S77/S398	5.19
8023643	WKP4-5-SP4/P00	11.64	8023790	WSP4-2/S77/S366	5.24
8023645	WKP4-0,3-SP4/S90	11.64	8023791	WSP4-5/S77/S366	5.24
8023646	WKP4-0,6-SP4/S90	11.64	8023792	WSP4-10/S77/S366	5.24
8023647	WKP4-1-SP4/S90	11.64	8023793	WSP4-2/S77/S398	5.24
8023648	WKP4-1,5-SP4/S90	11.64	8023794	WSP4-5/S77/S398	5.24
8023649	WKP4-2-SP4/S90	11.64	8023795	WSP4-10/S77/S398	5.24
8023650	WKP4-5-SP4/S90	11.64	8023796	KP3-0,3-WAS3/S366	11.37
8023652	WKP4-0,3-SP4/XOR	11.64	8023797	KP3-0,6-WAS3/S366	11.37
8023653	WKP4-0,6-SP4/XOR	11.64	8023798	KP3-1-WAS3/S366	11.37
8023654	WKP4-1-SP4/XOR	11.64	8023799	KP3-1,5-WAS3/S366	11.37
8023655	WKP4-1,5-SP4/XOR	11.64	8023800	KP3-2-WAS3/S366	11.37
8023656	WKP4-2-SP4/XOR	11.64	8023801	KP3-5-WAS3/S366	11.37
8023657	WKP4-5-SP4/XOR	11.64	8023803	KP3-0,3-WAS3/S77/S398	11.37
8023674	SWKP4-0,3-SSP4/P00	11.68	8023804	KP3-0,6-WAS3/S77/S398	11.37
8023675	SWKP4-0,6-SSP4/P00	11.68	8023805	KP3-1-WAS3/S77/S398	11.37
8023676	SWKP4-1-SSP4/P00	11.68	8023806	KP3-1,5-WAS3/S77/S398	11.37
8023677	SWKP4-1,5-SSP4/P00	11.68	8023807	KP3-2-WAS3/S77/S398	11.37
8023678	SWKP4-2-SSP4/P00	11.68	8023808	KP3-5-WAS3/S77/S398	11.37
8023679	SWKP4-5-SSP4/P00	11.68	8023810	KP4-0,3-WAS4/S77/S366	11.38
8023681	SWKP4-0,3-SSP4/S90	11.68	8023811	KP4-0,6-WAS4/S77/S366	11.38
8023682	SWKP4-0,6-SSP4/S90	11.68	8023812	KP4-1-WAS4/S77/S366	11.38
8023683	SWKP4-1-SSP4/S90	11.68	8023813	KP4-1,5-WAS4/S77/S366	11.38
8023684	SWKP4-1,5-SSP4/S90	11.68	8023814	KP4-2-WAS4/S77/S366	11.38
8023685	SWKP4-2-SSP4/S90	11.68	8023815	KP4-5-WAS4/S77/S366	11.38
8023686	SWKP4-5-SSP4/S90	11.68	8023817	KP4-0,3-WAS4/S77/S398	11.38
8023688	SWKP4-0,3-SSP4/XOR	11.68	8023818	KP4-0,6-WAS4/S77/S398	11.38
8023689	SWKP4-0,6-SSP4/XOR	11.68	8023819	KP4-1-WAS4/S77/S398	11.38
8023690	SWKP4-1-SSP4/XOR	11.68	8023820	KP4-1,5-WAS4/S77/S398	11.38
8023691	SWKP4-1,5-SSP4/XOR	11.68	8023821	KP4-2-WAS4/S77/S398	11.38
8023692	SWKP4-2-SSP4/XOR	11.68	8023822	KP4-5-WAS4/S77/S398	11.38
8023693	SWKP4-5-SSP4/XOR	11.68	8023824	ZKP3-0,3-WAS3/S366	11.39
8023729	WKP3-1-WAS3/S74	11.43	8023825	ZKP3-0,6-WAS3/S366	11.39
8023748	WKP3P2-0,3-WAS3/P00	11.49	8023826	ZKP3-1-WAS3/S366	11.39
8023749	WKP3P2-0,6-WAS3/P00	11.49	8023827	ZKP3-1,5-WAS3/S366	11.39
8023750	WKP3P2-1-WAS3/P00	11.49	8023828	ZKP3-2-WAS3/S366	11.39
8023751	WKP3P2-1,5-WAS3/P00	11.49	8023829	ZKP3-5-WAS3/S366	11.39
8023752	WKP3P2-2-WAS3/P00	11.49	8023831	ZKP3-0,3-WAS3/S77/S398	11.39
8023753	WKP3P2-5-WAS3/P00	11.49	8023832	ZKP3-1-WAS3/S77/S398	11.39
8023755	WKP3P2-5-WAS3/S90	11.49	8023833	ZKP3-0,6-WAS3/S77/S398	11.39
8023757	WKP3P2-0,3-WAS3/XOR	11.49	8023834	ZKP3-1,5-WAS3/S77/S398	11.39
8023758	WKP3P2-1-WAS3/XOR	11.49	8023835	ZKP3-2-WAS3/S77/S398	11.39
8023759	WKP3P2-1,5-WAS3/XOR	11.49	8023836	ZKP3-5-WAS3/S77/S398	11.39
8023760	WKP3P2-2-WAS3/XOR	11.49	8023838	ZKP4-0,3-WAS4/S77/S366	11.40
8023761	WKP3P2-5-WAS3/XOR	11.49	8023839	ZKP4-0,6-WAS4/S77/S366	11.40
8023763	WKP3P2-0,3-WAS3/S74	11.49	8023840	ZKP4-1-WAS4/S77/S366	11.40
8023764	WKP3P2-5-WAS3/S74	11.49	8023841	ZKP4-1,5-WAS4/S77/S366	11.40
8023768	ZWKP3P2-5-WAS3/XOR	11.51	8023842	ZKP4-2-WAS4/S77/S366	11.40
8023771	SWKP3P2-0,3-WAS3/P00	11.53	8023843	ZKP4-5-WAS4/S77/S366	11.40
8023781	SKP4-2/S77/S398	5.5	8023845	ZKP4-0,3-WAS4/S77/S398	11.40
8023782	SKP4-5/S77/S398	5.5	8023846	ZKP4-0,6-WAS4/S77/S398	11.40

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8023848	ZKP4-1,5-WAS4/S77/S398	11.40	8023915	ZWKP3-0,3-WAS3/S77/S398	11.45
8023849	ZKP4-2-WAS4/S77/S398	11.40	8023916	ZWKP3-0,6-WAS3/S77/S398	11.45
8023850	ZKP4-5-WAS4/S77/S398	11.40	8023917	ZWKP3-1-WAS3/S77/S398	11.45
8023852	SKP3-0,3-WAS3/S366	11.41	8023918	ZWKP3-1,5-WAS3/S77/S398	11.45
8023853	SKP3-0,6-WAS3/S366	11.41	8023919	ZWKP3-2-WAS3/S77/S398	11.45
8023854	SKP3-1-WAS3/S366	11.41	8023920	ZWKP3-5-WAS3/S77/S398	11.45
8023855	SKP3-1,5-WAS3/S366	11.41	8023922	ZWKP4-0,3-WAS4/S77/S366	11.46
8023856	SKP3-2-WAS3/S366	11.41	8023923	ZWKP4-0,6-WAS4/S77/S366	11.46
8023857	SKP3-5-WAS3/S366	11.41	8023924	ZWKP4-1-WAS4/S77/S366	11.46
8023859	SKP3-0,3-WAS3/S77/S398	11.41	8023925	ZWKP4-1,5-WAS4/S77/S366	11.46
8023860	SKP3-0,6-WAS3/S77/S398	11.41	8023926	ZWKP4-2-WAS4/S77/S366	11.46
8023861	SKP3-1-WAS3/S77/S398	11.41	8023927	ZWKP4-5-WAS4/S77/S366	11.46
8023862	SKP3-1,5-WAS3/S77/S398	11.41	8023929	ZWKP4-0,3-WAS4/S77/S398	11.46
8023863	SKP3-2-WAS3/S77/S398	11.41	8023930	ZWKP4-0,6-WAS4/S77/S398	11.46
8023864	SKP3-5-WAS3/S77/S398	11.41	8023931	ZWKP4-1-WAS4/S77/S398	11.46
8023866	SKP4-0,3-WAS4/S77/S366	11.42	8023932	ZWKP4-1,5-WAS4/S77/S398	11.46
8023867	SKP4-0,6-WAS4/S77/S366	11.42	8023933	ZWKP4-2-WAS4/S77/S398	11.46
8023868	SKP4-1-WAS4/S77/S366	11.42	8023934	ZWKP4-5-WAS4/S77/S398	11.46
8023869	SKP4-1,5-WAS4/S77/S366	11.42	8023936	SWKP3-0,3-WAS3/S366	11.47
8023870	SKP4-2-WAS4/S77/S366	11.42	8023937	SWKP3-0,6-WAS3/S366	11.47
8023871	SKP4-5-WAS4/S77/S366	11.42	8023938	SWKP3-1-WAS3/S366	11.47
8023873	SKP4-0,3-WAS4/S77/S398	11.42	8023939	SWKP3-1,5-WAS3/S366	11.47
8023874	SKP4-0,6-WAS4/S77/S398	11.42	8023940	SWKP3-2-WAS3/S366	11.47
8023875	SKP4-1-WAS4/S77/S398	11.42	8023941	SWKP3-5-WAS3/S366	11.47
8023876	SKP4-1,5-WAS4/S77/S398	11.42	8023943	SWKP3-0,3-WAS3/S77/S398	11.47
8023877	SKP4-2-WAS4/S77/S398	11.42	8023944	SWKP3-0,6-WAS3/S77/S398	11.47
8023878	SKP4-5-WAS4/S77/S398	11.42	8023945	SWKP3-1-WAS3/S77/S398	11.47
8023880	WKP3-0,3-WAS3/S366	11.43	8023946	SWKP3-1,5-WAS3/S77/S398	11.47
8023881	WKP3-0,6-WAS3/S366	11.43	8023947	SWKP3-2-WAS3/S77/S398	11.47
8023882	WKP3-1-WAS3/S366	11.43	8023948	SWKP3-5-WAS3/S77/S398	11.47
8023883	WKP3-1,5-WAS3/S366	11.43	8023950	SWKP4-0,3-WAS4/S77/S366	11.48
8023884	WKP3-2-WAS3/S366	11.43	8023951	SWKP4-0,6-WAS4/S77/S366	11.48
8023885	WKP3-5-WAS3/S366	11.43	8023952	SWKP4-1-WAS4/S77/S366	11.48
8023887	WKP3-0,3-WAS3/S77/S398	11.43	8023953	SWKP4-1,5-WAS4/S77/S366	11.48
8023888	WKP3-0,6-WAS3/S77/S398	11.43	8023954	SWKP4-2-WAS4/S77/S366	11.48
8023889	WKP3-1-WAS3/S77/S398	11.43	8023955	SWKP4-5-WAS4/S77/S366	11.48
8023890	WKP3-1,5-WAS3/S77/S398	11.43	8023957	SWKP4-0,3-WAS4/S77/S398	11.48
8023891	WKP3-2-WAS3/S77/S398	11.43	8023958	SWKP4-0,6-WAS4/S77/S398	11.48
8023892	WKP3-5-WAS3/S77/S398	11.43	8023959	SWKP4-1-WAS4/S77/S398	11.48
8023894	WKP4-0,3-WAS4/S77/S366	11.44	8023960	SWKP4-1,5-WAS4/S77/S398	11.48
8023895	WKP4-0,6-WAS4/S77/S366	11.44	8023961	SWKP4-2-WAS4/S77/S398	11.48
8023896	WKP4-1-WAS4/S77/S366	11.44	8023962	SWKP4-5-WAS4/S77/S398	11.48
8023897	WKP4-1,5-WAS4/S77/S366	11.44	8023967	WKP3P2-0,3-WAS3/S366	11.49
8023898	WKP4-2-WAS4/S77/S366	11.44	8023968	WKP3P2-0,6-WAS3/S366	11.49
8023899	WKP4-5-WAS4/S77/S366	11.44	8023969	WKP3P2-1-WAS3/S366	11.49
8023901	WKP4-0,3-WAS4/S77/S398	11.44	8023970	WKP3P2-1,5-WAS3/S366	11.49
8023902	WKP4-0,6-WAS4/S77/S398	11.44	8023971	WKP3P2-2-WAS3/S366	11.49
8023903	WKP4-1-WAS4/S77/S398	11.44	8023972	WKP3P2-5-WAS3/S366	11.49
8023904	WKP4-1,5-WAS4/S77/S398	11.44	8023974	WKP3P2-0,3-WAS3/S77/S398	11.49
8023905	WKP4-2-WAS4/S77/S398	11.44	8023975	WKP3P2-0,6-WAS3/S77/S398	11.49
8023906	WKP4-5-WAS4/S77/S398	11.44	8023976	WKP3P2-1-WAS3/S77/S398	11.49
8023908	ZWKP3-0,3-WAS3/S366	11.45	8023977	WKP3P2-1,5-WAS3/S77/S398	11.49
8023909	ZWKP3-0,6-WAS3/S366	11.45	8023978	WKP3P2-2-WAS3/S77/S398	11.49
8023910	ZWKP3-1-WAS3/S366	11.45	8023979	WKP3P2-5-WAS3/S77/S398	11.49
8023911	ZWKP3-1,5-WAS3/S366	11.45	8023981	WKP4P2-0,3-WAS4/P00	11.50
8023912	ZWKP3-2-WAS3/S366	11.45	8023982	WKP4P2-0,6-WAS4/P00	11.50

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8023984	WKP4P2-1,5-WAS4/P00	11.50	8024051	SWKP4P2-1,5-WAS4/S77/S398	11.54
8023985	WKP4P2-2-WAS4/P00	11.50	8024052	SWKP4P2-2-WAS4/S77/S398	11.54
8023986	WKP4P2-5-WAS4/P00	11.50	8024053	SWKP4P2-5-WAS4/S77/S398	11.54
8023988	WKP4P2-0,3-WAS4/S90	11.50	8024056	KP3-0,3-SP3/S77/S398	11.55
8023989	WKP4P2-0,6-WAS4/S90	11.50	8024057	KP3-0,6-SP3/S77/S398	11.55
8023990	WKP4P2-5-WAS4/S90	11.50	8024058	KP3-1-SP3/S77/S398	11.55
8023992	WKP4P2-0,3-WAS4/XOR	11.50	8024059	KP3-1,5-SP3/S77/S398	11.55
8023993	WKP4P2-0,6-WAS4/XOR	11.50	8024060	KP3-2-SP3/S77/S398	11.55
8023994	WKP4P2-1-WAS4/XOR	11.50	8024061	KP3-5-SP3/S77/S398	11.55
8023995	WKP4P2-1,5-WAS4/XOR	11.50	8024063	KP4-0,3-SP4/S77/S366	11.56
8023996	WKP4P2-2-WAS4/XOR	11.50	8024064	KP4-0,6-SP4/S77/S366	11.56
8023997	WKP4P2-5-WAS4/XOR	11.50	8024065	KP4-1-SP4/S77/S366	11.56
8023999	WKP4P2-0,3-WAS4/S77/S366	11.50	8024066	KP4-1,5-SP4/S77/S366	11.56
8024000	WKP4P2-0,6-WAS4/S77/S366	11.50	8024067	KP4-2-SP4/S77/S366	11.56
8024001	WKP4P2-1-WAS4/S77/S366	11.50	8024068	KP4-5-SP4/S77/S366	11.56
8024002	WKP4P2-1,5-WAS4/S77/S366	11.50	8024070	KP4-0,3-SP4/S77/S398	11.56
8024003	WKP4P2-2-WAS4/S77/S366	11.50	8024071	KP4-0,6-SP4/S77/S398	11.56
8024004	WKP4P2-5-WAS4/S77/S366	11.50	8024072	KP4-1-SP4/S77/S398	11.56
8024006	WKP4P2-0,3-WAS4/S77/S398	11.50	8024073	KP4-1,5-SP4/S77/S398	11.56
8024007	WKP4P2-0,6-WAS4/S77/S398	11.50	8024074	KP4-2-SP4/S77/S398	11.56
8024008	WKP4P2-1-WAS4/S77/S398	11.50	8024075	KP4-5-SP4/S77/S398	11.56
8024009	WKP4P2-1,5-WAS4/S77/S398	11.50	8024077	ZKP3-0,3-SP3/S77/S398	11.57
8024010	WKP4P2-2-WAS4/S77/S398	11.50	8024078	ZKP3-0,6-SP3/S77/S398	11.57
8024011	WKP4P2-5-WAS4/S77/S398	11.50	8024079	ZKP3-1-SP3/S77/S398	11.57
8024013	ZWKP3P2-0,3-WAS3/S366	11.51	8024080	ZKP3-1,5-SP3/S77/S398	11.57
8024014	ZWKP3P2-0,6-WAS3/S366	11.51	8024081	ZKP3-2-SP3/S77/S398	11.57
8024015	ZWKP3P2-1-WAS3/S366	11.51	8024082	ZKP3-5-SP3/S77/S398	11.57
8024016	ZWKP3P2-1,5-WAS3/S366	11.51	8024084	ZKP4-0,3-SP4/S77/S366	11.58
8024017	ZWKP3P2-2-WAS3/S366	11.51	8024085	ZKP4-0,6-SP4/S77/S366	11.58
8024018	ZWKP3P2-5-WAS3/S366	11.51	8024086	ZKP4-1-SP4/S77/S366	11.58
8024020	ZWKP3P2-0,3-WAS3/S77/S398	11.51	8024087	ZKP4-1,5-SP4/S77/S366	11.58
8024021	ZWKP3P2-0,6-WAS3/S77/S398	11.51	8024088	ZKP4-2-SP4/S77/S366	11.58
8024022	ZWKP3P2-1-WAS3/S77/S398	11.51	8024089	ZKP4-5-SP4/S77/S366	11.58
8024023	ZWKP3P2-1,5-WAS3/S77/S398	11.51	8024091	ZKP4-0,3-SP4/S77/S398	11.58
8024024	ZWKP3P2-2-WAS3/S77/S398	11.51	8024092	ZKP4-0,6-SP4/S77/S398	11.58
8024025	ZWKP3P2-5-WAS3/S77/S398	11.51	8024093	ZKP4-1-SP4/S77/S398	11.58
8024027	SWKP3P2-0,3-WAS3/S366	11.53	8024094	ZKP4-1,5-SP4/S77/S398	11.58
8024028	SWKP3P2-0,6-WAS3/S366	11.53	8024095	ZKP4-2-SP4/S77/S398	11.58
8024029	SWKP3P2-1-WAS3/S366	11.53	8024096	ZKP4-5-SP4/S77/S398	11.58
8024030	SWKP3P2-1,5-WAS3/S366	11.53	8024098	WKP3-0,3-SP3/S77/S398	11.63
8024031	SWKP3P2-2-WAS3/S366	11.53	8024099	WKP3-0,6-SP3/S77/S398	11.63
8024032	SWKP3P2-5-WAS3/S366	11.53	8024100	WKP3-1-SP3/S77/S398	11.63
8024034	SWKP3P2-0,3-WAS3/S77/S398	11.53	8024101	WKP3-1,5-SP3/S77/S398	11.63
8024035	SWKP3P2-0,6-WAS3/S77/S398	11.53	8024102	WKP3-2-SP3/S77/S398	11.63
8024036	SWKP3P2-1,0-WAS3/S77/S398	11.53	8024103	WKP3-5-SP3/S77/S398	11.63
8024037	SWKP3P2-1,5-WAS3/S77/S398	11.53	8024105	WKP4-0,3-SP4/S77/S366	11.64
8024038	SWKP3P2-2-WAS3/S77/S398	11.53	8024106	WKP4-0,6-SP4/S77/S366	11.64
8024039	SWKP3P2-5-WAS3/S77/S398	11.53	8024107	WKP4-1-SP4/S77/S366	11.64
8024041	SWKP4P2-0,3-WAS4/S77/S366	11.54	8024108	WKP4-1,5-SP4/S77/S366	11.64
8024042	SWKP4P2-0,6-WAS4/S77/S366	11.54	8024109	WKP4-2-SP4/S77/S366	11.64
8024043	SWKP4P2-1-WAS4/S77/S366	11.54	8024110	WKP4-5-SP4/S77/S366	11.64
8024044	SWKP4P2-1,5-WAS4/S77/S366	11.54	8024112	WKP4-0,3-SP4/S77/S398	11.64
8024045	SWKP4P2-2-WAS4/S77/S366	11.54	8024113	WKP4-0,6-SP4/S77/S398	11.64
8024046	SWKP4P2-5-WAS4/S77/S366	11.54	8024114	WKP4-1-SP4/S77/S398	11.64
8024048	SWKP4P2-0,3-WAS4/S77/S398	11.54	8024115	WKP4-1,5-SP4/S77/S398	11.64
8024049	SWKP4P2-0,6-WAS4/S77/S398	11.54	8024116	WKP4-2-SP4/S77/S398	11.64

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8024119	SKP3-0,3-SSP3/S77/S398	11.59	8024414	MB-4M12-5P3	13.5
8024120	SKP3-0,6-SSP3/S77/S398	11.59	8024415	MB-4M12-5.4P2	13.7
8024121	SKP3-1-SSP3/S77/S398	11.59	8024416	MB-8M12-5P3-2/S366	13.10
8024122	SKP3-1,5-SSP3/S77/S398	11.59	8024417	MB-8M12-5P3-5/S366	13.10
8024123	SKP3-2-SSP3/S77/S398	11.59	8024418	MB-8M12-5P3-10/S366	13.10
8024124	SKP3-5-SSP3/S77/S398	11.59	8024419	MB-8M12-5.4P2-2/S366	13.11
8024126	SKP4-0,3-SSP4/S77/S366	11.60	8024420	MB-8M12-5.4P2-5/S366	13.11
8024127	SKP4-0,6-SSP4/S77/S366	11.60	8024421	MB-8M12-5.4P2-10/S366	13.11
8024128	SKP4-1-SSP4/S77/S366	11.60	8024422	MB-4M12-5P3-2/S366	13.12
8024129	SKP4-1,5-SSP4/S77/S366	11.60	8024423	MB-4M12-5P3-5/S366	13.12
8024130	SKP4-2-SSP4/S77/S366	11.60	8024424	MB-4M12-5P3-10/S366	13.12
8024131	SKP4-5-SSP4/S77/S366	11.60	8024425	MB-4M12-5.4P2-2/S366	13.13
8024133	SKP4-0,3-SSP4/S77/S398	11.60	8024426	MB-4M12-5.4P2-5/S366	13.13
8024134	SKP4-0,6-SSP4/S77/S398	11.60	8024427	MB-4M12-5.4P2-10/S366	13.13
8024135	SKP4-1-SSP4/S77/S398	11.60	8024428	MB-8M12-5P3-K-SK	13.16
8024136	SKP4-1,5-SSP4/S77/S398	11.60	8024460	FB-WAK4-5/P00	2.9
8024137	SKP4-2-SSP4/S77/S398	11.60	8024461	FB-WWAK4-5/P00	2.27
8024138	SKP4-5-SSP4/S77/S398	11.60	8024463	FB-WAS4-5/P00	2.36
8024140	SWKP3-0,3-SSP3/S77/S398	11.67	8024466	FB-WWAS4-5/P00	2.50
8024141	SWKP3-0,6-SSP3/S77/S398	11.67	8024469	FB-WAS5-5/P00	2.36
8024142	SWKP3-1-SSP3/S77/S398	11.67	8024470	FB-WWAS5-5/P00	2.50
8024143	SWKP3-1,5-SSP3/S77/S398	11.67	8024472	FB-WAK5-5/P00	2.9
8024144	SWKP3-2-SSP3/S77/S398	11.67	8024473	FB-WWAK5-5/P00	2.27
8024145	SWKP3-5-SSP3/S77/S398	11.67	8024474	FB-FK4-0,5	2.140
8024147	SWKP4-0,3-SSP4/S77/S366	11.68	8024475	FB-FK5-0,5	2.140
8024148	SWKP4-0,6-SSP4/S77/S366	11.68	8024476	FC-WAS4-2/S2020	4.7
8024149	SWKP4-1-SSP4/S77/S366	11.68	8024591	FB-FS5-0,5	2.152
8024150	SWKP4-1,5-SSP4/S77/S366	11.68	8024594	FB-FS4-0,5	2.152
8024151	SWKP4-2-SSP4/S77/S366	11.68	8024596	FB-FS5-L	2.153
8024152	SWKP4-5-SSP4/S77/S366	11.68	8024603	FB-WAK4-10/P00	2.9
8024154	SWKP4-0,3-SSP4/S77/S398	11.68	8024604	FB-WAK4-15/P00	2.9
8024155	SWKP4-0,6-SSP4/S77/S398	11.68	8024605	FB-WAK5-10/P00	2.9
8024156	SWKP4-1-SSP4/S77/S398	11.68	8024606	FB-WAK5-15/P00	2.9
8024157	SWKP4-1,5-SSP4/S77/S398	11.68	8024607	FB-WWAK4-15/P00	2.27
8024158	SWKP4-2-SSP4/S77/S398	11.68	8024608	FB-WWAK5-10/P00	2.27
8024159	SWKP4-5-SSP4/S77/S398	11.68	8024609	FB-WWAK5-15/P00	2.27
8024161	SWKP3P2-0,3-SSP3/S77/S398	11.73	8024610	FB-WAS4-10/P00	2.36
8024162	SWKP3P2-0,6-SSP3/S77/S398	11.73	8024611	FB-WAS4-15/P00	2.36
8024163	SWKP3P2-1-SSP3/S77/S398	11.73	8024612	FB-WAS5-10/P00	2.36
8024164	SWKP3P2-1,5-SSP3/S77/S398	11.73	8024613	FB-WAS5-15/P00	2.36
8024165	SWKP3P2-2-SSP3/S77/S398	11.73	8024614	FB-WWAS5-10/P00	2.50
8024166	SWKP3P2-5-SSP3/S77/S398	11.73	8024615	FB-WWAS5-15/P00	2.50
8024169	SWKP3P2-0,3-SWSP3/S77/S398	11.77	8024619	FB-FS4-L	2.153
8024170	SWKP3P2-0,6-SWSP3/S77/S398	11.77	8024621	FB-WWAS4-10/P00	2.50
8024171	SWKP3P2-1-SWSP3/S77/S398	11.77	8024622	FB-WWAS4-15/P00	2.50
8024172	SWKP3P2-1,5-SWSP3/S77/S398	11.77	8024643	MB-FSM5-2FKM5.4	12.1
8024173	SWKP3P2-2-SWSP3/S77/S398	11.77	8024644	MB-FSM5-2FKM5.4P3	12.2
8024174	SWKP3P2-5-SWSP3/S77/S398	11.77	8024659	MB-SSP4-2SKP3P3	12.10
8024328	ZWKP3-0,3-SP3/P00	11.65	8024976	MB-FKM5-FSM5-FKM5	12.3
8024329	ZWKP3-0,6-SP3/P00	11.65	8025084	FC-WAK3-5/S2010	4.1
8024330	ZWKP3-1-SP3/P00	11.65	8025124	FC-WAK3-2/S2010	4.1
8024331	ZWKP3-1,5-SP3/P00	11.65	8025125	FC-WAK3-10/S2010	4.1
8024332	ZWKP3-2-SP3/P00	11.65	8025126	FC-WAK4-2/S2010	4.1
8024333	ZWKP3-5-SP3/P00	11.65	8025127	FC-WAK4-5/S2010	4.1
8024411	FB-8M12-5P3-15/P00	13.23	8025128	FC-WAK4-10/S2010	4.1
8024412	MB-8M12-5P3	13.1	8025129	FC-WAK4.5-2/S2010	4.2

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8025130	FC-WAK4.5-5/S2010	4.2	8025310	ZWKP3-1-SP3/XOR	11.65
8025131	FC-WAK4.5-10/S2010	4.2	8025311	ZWKP3-1,5-SP3/XOR	11.65
8025132	FC-WAK5-2/S2010	4.2	8025312	ZWKP3-2-SP3/XOR	11.65
8025133	FC-WAK5-10/S2010	4.2	8025313	ZWKP3-5-SP3/XOR	11.65
8025134	FC-WAK5-5/S2010	4.2	8025315	ZWKP3-0,3-SP3/S74	11.65
8025135	FC-WAK3-2/S2020	4.1	8025316	ZWKP3-0,6-SP3/S74	11.65
8025136	FC-WAK3-5/S2020	4.1	8025317	ZWKP3-1-SP3/S74	11.65
8025137	FC-WAK3-10/S2020	4.1	8025318	ZWKP3-1,5-SP3/S74	11.65
8025139	FC-WAK4-5/S2020	4.1	8025319	ZWKP3-2-SP3/S74	11.65
8025140	FC-WAK4-10/S2020	4.1	8025320	ZWKP3-5-SP3/S74	11.65
8025149	FC-WAK4.5-2/S2020	4.2	8025322	ZWKP3-0,3-SP3/S366	11.65
8025150	FC-WAK4.5-5/S2020	4.2	8025323	ZWKP3-0,6-SP3/S366	11.65
8025151	FC-WAK4.5-10/S2020	4.2	8025324	ZWKP3-1-SP3/S366	11.65
8025152	FC-WAK5-2/S2020	4.2	8025325	ZWKP3-1,5-SP3/S366	11.65
8025153	FC-WAK5-5/S2020	4.2	8025326	ZWKP3-2-SP3/S366	11.65
8025154	FC-WAK5-10/S2020	4.2	8025327	ZWKP3-5-SP3/S366	11.65
8025221	VAS22-2.048-10/S398	10.2	8025329	ZWKP3-0,3-SP3/S77/S398	11.65
8025224	FKD8-0,5	2.136	8025330	ZWKP3-0,6-SP3/S77/S398	11.65
8025231	PFS6-0,2	5.30	8025331	ZWKP3-1-SP3/S77/S398	11.65
8025233	ZWKP4P2-0,3-WAS4/P00	11.52	8025332	ZWKP3-1,5-SP3/S77/S398	11.65
8025234	ZWKP4P2-0,6-WAS4/P00	11.52	8025333	ZWKP3-2-SP3/S77/S398	11.65
8025235	ZWKP4P2-1-WAS4/P00	11.52	8025334	ZWKP3-5-SP3/S77/S398	11.65
8025236	ZWKP4P2-1,5-WAS4/P00	11.52	8025336	ZWKP4-0,3-SP4/P00	11.66
8025237	ZWKP4P2-2-WAS4/P00	11.52	8025337	ZWKP4-0,6-SP4/P00	11.66
8025238	ZWKP4P2-5-WAS4/P00	11.52	8025338	ZWKP4-1-SP4/P00	11.66
8025240	ZWKP4P2-0,3-WAS4/S90	11.52	8025339	ZWKP4-1,5-SP4/P00	11.66
8025241	ZWKP4P2-0,6-WAS4/S90	11.52	8025340	ZWKP4-2-SP4/P00	11.66
8025242	ZWKP4P2-1-WAS4/S90	11.52	8025341	ZWKP4-5-SP4/P00	11.66
8025243	ZWKP4P2-1,5-WAS4/S90	11.52	8025343	ZWKP4-0,3-SP4/S90	11.66
8025244	ZWKP4P2-2-WAS4/S90	11.52	8025344	ZWKP4-0,6-SP4/S90	11.66
8025245	ZWKP4P2-5-WAS4/S90	11.52	8025345	ZWKP4-1-SP4/S90	11.66
8025247	ZWKP4P2-0,3-WAS4/XOR	11.52	8025346	ZWKP4-1,5-SP4/S90	11.66
8025249	ZWKP4P2-0,6-WAS4/XOR	11.52	8025347	ZWKP4-2-SP4/S90	11.66
8025250	ZWKP4P2-1-WAS4/XOR	11.52	8025348	ZWKP4-5-SP4/S90	11.66
8025251	ZWKP4P2-1,5-WAS4/XOR	11.52	8025350	ZWKP4-0,3-SP4/XOR	11.66
8025252	ZWKP4P2-2-WAS4/XOR	11.52	8025351	ZWKP4-0,6-SP4/XOR	11.66
8025253	ZWKP4P2-5-WAS4/XOR	11.52	8025352	ZWKP4-1-SP4/XOR	11.66
8025255	ZWKP4P2-0,3-WAS4/S77/S366	11.52	8025353	ZWKP4-1,5-SP4/XOR	11.66
8025256	ZWKP4P2-0,6-WAS4/S77/S366	11.52	8025354	ZWKP4-2-SP4/XOR	11.66
8025257	ZWKP4P2-1-WAS4/S77/S366	11.52	8025355	ZWKP4-5-SP4/XOR	11.66
8025258	ZWKP4P2-1,5-WAS4/S77/S366	11.52	8025357	ZWKP4-0,3-SP4/S77/S366	11.66
8025259	ZWKP4P2-2-WAS4/S77/S366	11.52	8025358	ZWKP4-0,6-SP4/S77/S366	11.66
8025260	ZWKP4P2-5-WAS4/S77/S366	11.52	8025359	ZWKP4-1-SP4/S77/S366	11.66
8025262	ZWKP4P2-0,3-WAS4/S77/S398	11.52	8025360	ZWKP4-1,5-SP4/S77/S366	11.66
8025263	ZWKP4P2-0,6-WAS4/S77/S398	11.52	8025361	ZWKP4-2-SP4/S77/S366	11.66
8025264	ZWKP4P2-1-WAS4/S77/S398	11.52	8025362	ZWKP4-5-SP4/S77/S366	11.66
8025265	ZWKP4P2-1,5-WAS4/S77/S398	11.52	8025364	ZWKP4-0,3-SP4/S77/S398	11.66
8025266	ZWKP4P2-2-WAS4/S77/S398	11.52	8025365	ZWKP4-0,6-SP4/S77/S398	11.66
8025267	ZWKP4P2-5-WAS4/S77/S398	11.52	8025366	ZWKP4-1-SP4/S77/S398	11.66
8025301	ZWKP3-0,3-SP3/S90	11.65	8025367	ZWKP4-1,5-SP4/S77/S398	11.66
8025302	ZWKP3-0,6-SP3/S90	11.65	8025368	ZWKP4-2-SP4/S77/S398	11.66
8025303	ZWKP3-1-SP3/S90	11.65	8025369	ZWKP4-5-SP4/S77/S398	11.66
8025304	ZWKP3-1,5-SP3/S90	11.65	8025371	WKP3P2-0,3-SP3/P00	11.69
8025305	ZWKP3-2-SP3/S90	11.65	8025372	WKP3P2-0,6-SP3/P00	11.69
8025306	ZWKP3-5-SP3/S90	11.65	8025373	WKP3P2-1-SP3/P00	11.69
8025308	ZWKP3-0,3-SP3/XOR	11.65	8025374	WKP3P2-1,5-SP3/P00	11.69
8025309	ZWKP3-0,6-SP3/XOR	11.65	8025375	WKP3P2-2-SP3/P00	11.69

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8025376	WKP3P2-5-SP3/P00	11.69	8025443	WKP4P2-1-SP4/S77/S398	11.70
8025378	WKP3P2-0,3-SP3/S90	11.69	8025444	WKP4P2-1,5-SP4/S77/S398	11.70
8025379	WKP3P2-0,6-SP3/S90	11.69	8025445	WKP4P2-2-SP4/S77/S398	11.70
8025380	WKP3P2-1-SP3/S90	11.69	8025446	WKP4P2-5-SP4/S77/S398	11.70
8025381	WKP3P2-1,5-SP3/S90	11.69	8025448	ZWKP3P2-0,3-SP3/P00	11.71
8025382	WKP3P2-2-SP3/S90	11.69	8025449	ZWKP3P2-0,6-SP3/P00	11.71
8025383	WKP3P2-5-SP3/S90	11.69	8025450	ZWKP3P2-1-SP3/P00	11.71
8025385	WKP3P2-0,3-SP3/XOR	11.69	8025451	ZWKP3P2-1,5-SP3/P00	11.71
8025386	WKP3P2-0,6-SP3/XOR	11.69	8025452	ZWKP3P2-2-SP3/P00	11.71
8025387	WKP3P2-1-SP3/XOR	11.69	8025453	ZWKP3P2-5-SP3/P00	11.71
8025388	WKP3P2-1,5-SP3/XOR	11.69	8025455	ZWKP3P2-0,3-SP3/S90	11.71
8025389	WKP3P2-2-SP3/XOR	11.69	8025456	ZWKP3P2-0,6-SP3/S90	11.71
8025390	WKP3P2-5-SP3/XOR	11.69	8025457	ZWKP3P2-1-SP3/S90	11.71
8025392	WKP3P2-0,3-SP3/S74	11.69	8025458	ZWKP3P2-1,5-SP3/S90	11.71
8025393	WKP3P2-0,6-SP3/S74	11.69	8025459	ZWKP3P2-2-SP3/S90	11.71
8025394	WKP3P2-1-SP3/S74	11.69	8025460	ZWKP3P2-5-SP3/S90	11.71
8025395	WKP3P2-1,5-SP3/S74	11.69	8025464	ZWKP3P2-0,3-SP3/XOR	11.71
8025396	WKP3P2-2-SP3/S74	11.69	8025465	ZWKP3P2-0,6-SP3/XOR	11.71
8025397	WKP3P2-5-SP3/S74	11.69	8025466	ZWKP3P2-1-SP3/XOR	11.71
8025399	WKP3P2-0,3-SP3/S366	11.69	8025467	ZWKP3P2-1,5-SP3/XOR	11.71
8025400	WKP3P2-0,6-SP3/S366	11.69	8025468	ZWKP3P2-2-SP3/XOR	11.71
8025401	WKP3P2-1-SP3/S366	11.69	8025469	ZWKP3P2-5-SP3/XOR	11.71
8025402	WKP3P2-1,5-SP3/S366	11.69	8025471	ZWKP3P2-0,3-SP3/S74	11.71
8025403	WKP3P2-2-SP3/S366	11.69	8025472	ZWKP3P2-0,6-SP3/S74	11.71
8025404	WKP3P2-5-SP3/S366	11.69	8025473	ZWKP3P2-1-SP3/S74	11.71
8025406	WKP3P2-0,3-SP3/S77/S398	11.69	8025474	ZWKP3P2-1,5-SP3/S74	11.71
8025407	WKP3P2-0,6-SP3/S77/S398	11.69	8025475	ZWKP3P2-2-SP3/S74	11.71
8025408	WKP3P2-1-SP3/S77/S398	11.69	8025476	ZWKP3P2-5-SP3/S74	11.71
8025409	WKP3P2-1,5-SP3/S77/S398	11.69	8025478	ZWKP4P2-0,3-SP4/P00	11.72
8025410	WKP3P2-2-SP3/S77/S398	11.69	8025479	ZWKP4P2-0,6-SP4/P00	11.72
8025411	WKP3P2-5-SP3/S77/S398	11.69	8025480	ZWKP4P2-1-SP4/P00	11.72
8025413	WKP4P2-0,3-SP4/P00	11.70	8025481	ZWKP4P2-1,5-SP4/P00	11.72
8025414	WKP4P2-0,6-SP4/P00	11.70	8025482	ZWKP4P2-2-SP4/P00	11.72
8025415	WKP4P2-1-SP4/P00	11.70	8025483	ZWKP4P2-5-SP4/P00	11.72
8025416	WKP4P2-1,5-SP4/P00	11.70	8025486	ZWKP4P2-0,3-SP4/XOR	11.72
8025417	WKP4P2-2-SP4/P00	11.70	8025487	ZWKP4P2-0,6-SP4/XOR	11.72
8025418	WKP4P2-5-SP4/P00	11.70	8025488	ZWKP4P2-1-SP4/XOR	11.72
8025420	WKP4P2-0,3-SP4/S90	11.70	8025489	ZWKP4P2-1,5-SP4/XOR	11.72
8025421	WKP4P2-0,6-SP4/S90	11.70	8025490	ZWKP4P2-2-SP4/XOR	11.72
8025422	WKP4P2-1-SP4/S90	11.70	8025491	ZWKP4P2-5-SP4/XOR	11.72
8025423	WKP4P2-1,5-SP4/S90	11.70	8025493	ZWKP4P2-0,3-SP4/S77/S366	11.72
8025424	WKP4P2-2-SP4/S90	11.70	8025494	ZWKP4P2-0,6-SP4/S77/S366	11.72
8025425	WKP4P2-5-SP4/S90	11.70	8025495	ZWKP4P2-1-SP4/S77/S366	11.72
8025427	WKP4P2-0,3-SP4/XOR	11.70	8025496	ZWKP4P2-1,5-SP4/S77/S366	11.72
8025428	WKP4P2-0,6-SP4/XOR	11.70	8025497	ZWKP4P2-2-SP4/S77/S366	11.72
8025429	WKP4P2-1-SP4/XOR	11.70	8025498	ZWKP4P2-5-SP4/S77/S366	11.72
8025430	WKP4P2-1,5-SP4/XOR	11.70	8025500	ZWKP4P2-0,3-SP4/S77/S398	11.72
8025431	WKP4P2-2-SP4/XOR	11.70	8025501	ZWKP4P2-0,6-SP4/S77/S398	11.72
8025432	WKP4P2-5-SP4/XOR	11.70	8025502	ZWKP4P2-1-SP4/S77/S398	11.72
8025434	WKP4P2-0,3-SP4/S77/S366	11.70	8025503	ZWKP4P2-1,5-SP4/S77/S398	11.72
8025435	WKP4P2-0,6-SP4/S77/S366	11.70	8025504	ZWKP4P2-2-SP4/S77/S398	11.72
8025436	WKP4P2-1-SP4/S77/S366	11.70	8025505	ZWKP4P2-5-SP4/S77/S398	11.72
8025437	WKP4P2-1,5-SP4/S77/S366	11.70	8025507	SWKP4P2-0,3-SSP4/P00	11.74
8025438	WKP4P2-2-SP4/S77/S366	11.70	8025508	SWKP4P2-0,6-SSP4/P00	11.74
8025439	WKP4P2-5-SP4/S77/S366	11.70	8025509	SWKP4P2-1-SSP4/P00	11.74
8025441	WKP4P2-0,3-SP4/S77/S398	11.70	8025510	SWKP4P2-1,5-SSP4/P00	11.74
8025442	WKP4P2-0,6-SP4/S77/S398	11.70	8025512	SWKP4P2-2-SSP4/P00	11.74

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8025513	SWKP4P2-5-SSP4/P00	11.74	8025604	ZWKP3P2-0,6-SP3/S77/S398	11.71
8025515	SWKP4P2-0,3-SSP4/S90	11.74	8025605	ZWKP3P2-1-SP3/S77/S398	11.71
8025516	SWKP4P2-0,6-SSP4/S90	11.74	8025606	ZWKP3P2-1,5-SP3/S77/S398	11.71
8025517	SWKP4P2-1-SSP4/S90	11.74	8025607	ZWKP3P2-2-SP3/S77/S398	11.71
8025518	SWKP4P2-1,5-SSP4/S90	11.74	8025608	ZWKP3P2-5-SP3/S77/S398	11.71
8025519	SWKP4P2-2-SSP4/S90	11.74	8025610	ZWKP4P2-0,3-SP4/S90	11.72
8025520	SWKP4P2-5-SSP4/S90	11.74	8025611	ZWKP4P2-0,6-SP4/S90	11.72
8025522	SWKP4P2-0,3-SSP4/XOR	11.74	8025612	MB-4M12-5.4P2/S2000	13.8
8025523	SWKP4P2-0,6-SSP4/XOR	11.74	8025613	ZWKP4P2-1-SP4/S90	11.72
8025524	SWKP4P2-1-SSP4/XOR	11.74	8025614	ZWKP4P2-1,5-SP4/S90	11.72
8025525	SWKP4P2-1,5-SSP4/XOR	11.74	8025615	ZWKP4P2-2-SP4/S90	11.72
8025526	SWKP4P2-2-SSP4/XOR	11.74	8025616	ZWKP4P2-5-SP4/S90	11.72
8025527	SWKP4P2-5-SSP4/XOR	11.74	8025617	MB-4M12-5P3/S2000	13.6
8025529	SWKP4P2-0,3-SSP4/S77/S366	11.74	8025619	MB-8M12-5.4P2/S2000	13.4
8025530	SWKP4P2-0,6-SSP4/S77/S366	11.74	8025620	MB-8M12-5P3/S2000	13.2
8025531	SWKP4P2-1-SSP4/S77/S366	11.74	8025621	SWKP4P2-0,3-SWSP4/S77/S366	11.78
8025533	SWKP4P2-1,5-SSP4/S77/S366	11.74	8025622	SWKP4P2-0,6-SWSP4/S77/S366	11.78
8025534	SWKP4P2-2-SSP4/S77/S366	11.74	8025623	SWKP4P2-1-SWSP4/S77/S366	11.78
8025535	SWKP4P2-5-SSP4/S77/S366	11.74	8025624	SWKP4P2-1,5-SWSP4/S77/S366	11.78
8025537	SWKP4P2-0,3-SSP4/S77/S398	11.74	8025625	SWKP4P2-2-SWSP4/S77/S366	11.78
8025538	SWKP4P2-0,6-SSP4/S77/S398	11.74	8025626	SWKP4P2-5-SWSP4/S77/S366	11.78
8025539	SWKP4P2-1-SSP4/S77/S398	11.74	8025630	8MBM8-4P3	13.26
8025540	SWKP4P2-1,5-SSP4/S77/S398	11.74	8025633	VAS22-0.220-2/S366	10.1
8025541	SWKP4P2-2-SSP4/S77/S398	11.74	8025635	WASL3-2/P00	2.37
8025542	SWKP4P2-5-SSP4/S77/S398	11.74	8025636	WASL3-5/P00	2.37
8025544	SWKP4P2-0,3-SWSP4/P00	11.78	8025637	WASL3-10/P00	2.37
8025545	SWKP4P2-0,6-SWSP4/P00	11.78	8025638	WASL4-2/P00	2.37
8025546	SWKP4P2-1-SWSP4/P00	11.78	8025639	WASL4-5/P00	2.37
8025547	SWKP4P2-1,5-SWSP4/P00	11.78	8025640	WASL4-10/P00	2.37
8025548	SWKP4P2-2-SWSP4/P00	11.78	8025641	4MBM8-4P3	13.32
8025549	SWKP4P2-5-SWSP4/P00	11.78	8025642	4MBM8-4N3	13.33
8025551	SWKP4P2-0,3-SWSP4/S90	11.78	8025645	8MBM8-4N3	13.27
8025552	SWKP4P2-0,6-SWSP4/S90	11.78	8025648	8MBM8-4P3-2/S1117	13.38
8025553	SWKP4P2-1-SWSP4/S90	11.78	8025650	8MBM8-4P3-2/S1118	13.50
8025554	SWKP4P2-1,5-SWSP4/S90	11.78	8025651	8MBM8-4P3-5/S1117	13.38
8025555	SWKP4P2-2-SWSP4/S90	11.78	8025652	8MBM8-4P3-5/S1118	13.50
8025556	SWKP4P2-5-SWSP4/S90	11.78	8025653	8MBM8-4P3-10/S1117	13.38
8025558	SWKP4P2-0,3-SWSP4/XOR	11.78	8025655	8MBM8-4P3-10/S1118	13.50
8025559	SWKP4P2-0,6-SWSP4/XOR	11.78	8025656	4MBM8-4P3-2/S1117	13.44
8025560	SWKP4P2-1-SWSP4/XOR	11.78	8025657	4MBM8-4P3-2/S1118	13.58
8025561	SWKP4P2-1,5-SWSP4/XOR	11.78	8025658	4MBM8-4P3-5/S1117	13.44
8025562	SWKP4P2-2-SWSP4/XOR	11.78	8025659	4MBM8-4P3-5/S1118	13.58
8025563	SWKP4P2-5-SWSP4/XOR	11.78	8025660	4MBM8-4P3-10/S1117	13.44
8025565	SWKP4P2-0,3-SWSP4/S77/S398	11.78	8025661	4MBM8-4P3-10/S1118	13.58
8025566	SWKP4P2-0,6-SWSP4/S77/S398	11.78	8025662	8MBM8-4N3-2/S1117	13.39
8025567	SWKP4P2-1-SWSP4/S77/S398	11.78	8025663	8MBM8-4N3-5/S1117	13.39
8025568	SWKP4P2-1,5-SWSP4/S77/S398	11.78	8025664	8MBM8-4N3-10/S1117	13.39
8025569	SWKP4P2-2-SWSP4/S77/S398	11.78	8025665	8MBM8-4N3-2/S1118	13.51
8025570	SWKP4P2-5-SWSP4/S77/S398	11.78	8025666	8MBM8-4N3-5/S1118	13.51
8025588	FSD8-0,5	2.148	8025667	8MBM8-4N3-10/S1118	13.51
8025596	ZWKP3P2-0,3-SP3/S366	11.71	8025668	4MBM8-4N3-2/S1117	13.45
8025597	ZWKP3P2-0,6-SP3/S366	11.71	8025669	4MBM8-4N3-5/S1117	13.45
8025598	ZWKP3P2-1-SP3/S366	11.71	8025670	4MBM8-4N3-10/S1117	13.45
8025599	ZWKP3P2-1,5-SP3/S366	11.71	8025671	4MBM8-4N3-2/S1118	13.59
8025600	ZWKP3P2-2-SP3/S366	11.71	8025672	4MBM8-4N3-5/S1118	13.59
8025601	ZWKP3P2-5-SP3/S366	11.71	8025673	4MBM8-4N3-10/S1118	13.59
8025603	ZWKP3P2-0,3-SP3/S77/S398	11.71	8025693	MB-SSP4-2SKP3	12.9

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8025700	MB-2SKP3P3-1-SSP4/P00	12.27	8025774	VCS8.21-2.048-5/S366	10.28
8025701	MB-SSP4P3-2SKP3-1/1/P00	12.25	8025775	VCS8.21-2.048-10/S366	10.28
8025703	MB-2SKP3-1-SSP4/P00	12.26	8025776	TCS8.21-0.220-2/S366	10.31
8025704	MB-SSP4-2SKP3-1/1/P00	12.24	8025777	TCS8.21-0.220-5/S366	10.31
8025709	KP3-2/S77/S398	5.1	8025778	TCS8.21-0.220-10/S366	10.31
8025712	VAS22-0.220-2/S398	10.1	8025779	VCS9.21-0.220-2/S366	10.33
8025713	VAS22-0.220-5/S398	10.1	8025780	VCS9.21-0.220-5/S366	10.33
8025714	VAS22-0.220-10/S398	10.1	8025781	VCS9.21-0.220-10/S366	10.33
8025715	VAS31-0.220-2/S366	10.5	8025782	TCS9.21-0.220-2/S366	10.37
8025716	VAS31-0.220-5/S366	10.5	8025783	TCS9.21-0.220-5/S366	10.37
8025717	VAS31-0.220-10/S366	10.5	8025784	TCS9.21-0.220-10/S366	10.37
8025718	VAS31-0.220-2/S398	10.5	8025785	TCS9.21-2.048-2/S366	10.38
8025719	VAS31-0.220-5/S398	10.5	8025786	TCS9.21-2.048-5/S366	10.38
8025720	VAS31-0.220-10/S398	10.5	8025787	TCS9.21-2.048-10/S366	10.38
8025721	VAS31-2.048-2/S366	10.6	8025788	TCS8.21-2.048-2/S366	10.32
8025722	VAS31-2.048-5/S366	10.6	8025789	TCS8.21-2.048-5/S366	10.32
8025723	VAS31-2.048-10/S366	10.6	8025790	TCS8.21-2.048-10/S366	10.32
8025724	VAS31-2.048-2/S398	10.6	8025791	VCS9.21-2.048-5/S366	10.34
8025725	VAS31-2.048-5/S398	10.6	8025792	VCS9.21-2.048-2/S366	10.34
8025726	VAS31-2.048-10/S398	10.6	8025793	VCS9.21-2.048-10/S366	10.34
8025727	TAS31-0.220-2/XOR	10.8	8025802	VAS31-0.220-2/S90	10.5
8025728	TAS31-0.220-5/XOR	10.8	8025803	VAS31-2.048-5/P00	10.6
8025729	TAS31-0.220-10/XOR	10.8	8025804	VAS31-2.048-10/P00	10.6
8025730	TAS31-2.048-2/P00	10.9	8025805	VASD41-4.048-2/S398	10.7
8025731	TAS31-2.048-5/P00	10.9	8025806	TAS31-0.220-5/P00	10.8
8025732	TAS31-2.048-10/P00	10.9	8025807	TAS31-0.220-10/P00	10.8
8025733	TAS31-2.048-2/XOR	10.9	8025808	TAS31-0.220-2/S90	10.8
8025734	TAS31-2.048-5/XOR	10.9	8025809	TAS31-0.220-10/S90	10.8
8025735	TAS31-2.048-10/XOR	10.9	8025848	VCS8.21-0.220-2/S398	10.27
8025746	VBS21-0.220-2/S366	10.15	8025849	VCS8.21-0.220-5/S398	10.27
8025747	VBS21-0.220-5/S366	10.15	8025850	VCS8.21-0.220-10/S398	10.27
8025748	VBS21-0.220-10/S366	10.15	8025851	VCS8.21-2.048-2/S398	10.28
8025749	VBS21-2.048-2/S366	10.16	8025852	VCS8.21-2.048-5/S398	10.28
8025750	VBS21-2.048-5/S366	10.16	8025853	VCS8.21-2.048-10/S398	10.28
8025751	VBS21-2.048-10/S366	10.16	8025854	TCS8.21-0.220-2/S398	10.31
8025752	TBS21-0.220-2/S366	10.19	8025855	TCS8.21-0.220-5/S398	10.31
8025753	TBS21-0.220-5/S366	10.19	8025856	TCS8.21-0.220-10/S398	10.31
8025754	TBS21-0.220-10/S366	10.19	8025857	VCS9.21-0.220-2/S398	10.33
8025755	TBS21-2.048-2/S366	10.20	8025858	VCS9.21-0.220-5/S398	10.33
8025756	TBS21-2.048-5/S366	10.20	8025859	VCS9.21-0.220-10/S398	10.33
8025757	TBS21-2.048-10/S366	10.20	8025860	TCS9.21-0.220-2/S398	10.37
8025758	VIS21-0.220-2/S366	10.21	8025861	TCS9.21-0.220-5/S398	10.37
8025759	VIS21-0.220-5/S366	10.21	8025862	TCS9.21-0.220-10/S398	10.37
8025760	VIS21-0.220-10/S366	10.21	8025863	TCS9.21-2.048-2/S398	10.38
8025761	VIS21-2.048-2/S366	10.22	8025864	TCS9.21-2.048-5/S398	10.38
8025762	VIS21-2.048-5/S366	10.22	8025865	TCS9.21-2.048-10/S398	10.38
8025763	VIS21-2.048-10/S366	10.22	8025866	TCS8.21-2.048-2/S398	10.32
8025764	TIS21-0.220-2/S366	10.25	8025867	TCS8.21-2.048-5/S398	10.32
8025765	TIS21-0.220-5/S366	10.25	8025868	TCS8.21-2.048-10/S398	10.32
8025766	TIS21-0.220-10/S366	10.25	8025869	VCS9.21-2.048-2/S398	10.34
8025767	TIS21-2.048-2/S366	10.26	8025870	VCS9.21-2.048-5/S398	10.34
8025768	TIS21-2.048-5/S366	10.26	8025871	VCS9.21-2.048-10/S398	10.34
8025769	TIS21-2.048-10/S366	10.26	8025872	VAS22-2.048-1,5-WAS5.31/P00	11.79
8025770	VCS8.21-0.220-2/S366	10.27	8025873	VAS22-2.048-5-WAS5.31/P00	11.79
8025771	VCS8.21-0.220-5/S366	10.27	8025876	VAS22-2.048-0,3-WAS5.31/S366	11.79
8025772	VCS8.21-0.220-10/S366	10.27	8025877	VAS22-2.048-0,6-WAS5.31/S366	11.79
8025773	VCS8.21-2.048-2/S366	10.28	8025878	VAS22-2.048-1-WAS5.31/S366	11.79

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8025879	VAS22-2.048-1,5-WAS5.31/S366	11.79	8025951	VIS21-0.220-5/S398	10.21
8025880	VAS22-2.048-2-WAS5.31/S366	11.79	8025952	VIS21-0.220-10/S398	10.21
8025881	VAS22-2.048-5-WAS5.31/S366	11.79	8025953	VIS21-2.048-2/S398	10.22
8025888	VBS21-2.048-0,3-WAS5.31/S366	11.81	8025954	VIS21-2.048-5/S398	10.22
8025889	VBS21-2.048-0,6-WAS5.31/S366	11.81	8025955	VIS21-2.048-10/S398	10.22
8025890	VBS21-2.048-1-WAS5.31/S366	11.81	8025956	VAS22-2.048-0,3-WAS5.31/S398	11.79
8025891	VBS21-2.048-1,5-WAS5.31/S366	11.81	8025957	VAS22-2.048-0,6-WAS5.31/S398	11.79
8025892	VBS21-2.048-2-WAS5.31/S366	11.81	8025958	VAS22-2.048-2-WAS5.31/S398	11.79
8025893	VBS21-2.048-5-WAS5.31/S366	11.81	8025959	VAS22-2.048-5-WAS5.31/S398	11.79
8025895	TBS21-2.048-0,3-WAS5.31/P00	11.82	8025962	VASD41-4.048-0,3-WAS5/S398	11.80
8025896	TBS21-2.048-0,6-WAS5.31/P00	11.82	8025963	VASD41-4.048-1,5-WAS5/S398	11.80
8025897	TBS21-2.048-1-WAS5.31/P00	11.82	8025964	VASD41-4.048-5-WAS5/S398	11.80
8025898	TBS21-2.048-1,5-WAS5.31/P00	11.82	8025966	VBS21-2.048-1,5-WAS5.31/S398	11.81
8025899	TBS21-2.048-2-WAS5.31/P00	11.82	8025967	VBS21-2.048-2-WAS5.31/S398	11.81
8025900	TBS21-2.048-5-WAS5.31/P00	11.82	8025968	VBS21-2.048-5-WAS5.31/S398	11.81
8025902	TBS21-2.048-0,3-WAS5.31/S90	11.82	8025970	TBS21-2.048-0,3-WAS5.31/S398	11.82
8025903	TBS21-2.048-1-WAS5.31/S90	11.82	8025971	TBS21-2.048-0,6-WAS5.31/S398	11.82
8025904	TBS21-2.048-1,5-WAS5.31/S90	11.82	8025972	TBS21-2.048-1-WAS5.31/S398	11.82
8025905	TBS21-2.048-5-WAS5.31/S90	11.82	8025973	TBS21-2.048-1,5-WAS5.31/S398	11.82
8025907	TBS21-2.048-0,3-WAS5.31/XOR	11.82	8025974	TBS21-2.048-2-WAS5.31/S398	11.82
8025908	TBS21-2.048-1,5-WAS5.31/XOR	11.82	8025975	TBS21-2.048-5-WAS5.31/S398	11.82
8025909	TBS21-2.048-5-WAS5.31/XOR	11.82	8025977	VIS21-2.048-0,3-WAS5.31/S398	11.83
8025911	TBS21-2.048-0,3-WAS5.31/S74	11.82	8025978	VIS21-2.048-1-WAS5.31/S398	11.83
8025912	TBS21-2.048-0,6-WAS5.31/S74	11.82	8025979	VIS21-2.048-2-WAS5.31/S398	11.83
8025913	TBS21-2.048-1-WAS5.31/S74	11.82	8025981	TIS21-2.048-0,3-WAS5.31/P00	11.84
8025914	TBS21-2.048-1,5-WAS5.31/S74	11.82	8025982	TIS21-2.048-0,6-WAS5.31/P00	11.84
8025915	TBS21-2.048-2-WAS5.31/S74	11.82	8025983	TIS21-2.048-1-WAS5.31/P00	11.84
8025916	TBS21-2.048-5-WAS5.31/S74	11.82	8025984	TIS21-2.048-1,5-WAS5.31/P00	11.84
8025918	TBS21-2.048-0,3-WAS5.31/S366	11.82	8025985	TIS21-2.048-2-WAS5.31/P00	11.84
8025919	TBS21-2.048-0,6-WAS5.31/S366	11.82	8025986	TIS21-2.048-5-WAS5.31/P00	11.84
8025920	TBS21-2.048-1-WAS5.31/S366	11.82	8025988	TIS21-2.048-0,3-WAS5.31/S90	11.84
8025921	TBS21-2.048-1,5-WAS5.31/S366	11.82	8025989	TIS21-2.048-0,6-WAS5.31/S90	11.84
8025922	TBS21-2.048-2-WAS5.31/S366	11.82	8025990	TIS21-2.048-1-WAS5.31/S90	11.84
8025923	TBS21-2.048-5-WAS5.31/S366	11.82	8025991	TIS21-2.048-1,5-WAS5.31/S90	11.84
8025927	VIS21-2.048-0,3-WAS5.31/S366	11.83	8025992	TIS21-2.048-2-WAS5.31/S90	11.84
8025928	VIS21-2.048-0,6-WAS5.31/S366	11.83	8025993	TIS21-2.048-5-WAS5.31/S90	11.84
8025929	VIS21-2.048-1-WAS5.31/S366	11.83	8025995	TIS21-2.048-0,3-WAS5.31/XOR	11.84
8025930	VIS21-2.048-1,5-WAS5.31/S366	11.83	8025996	TIS21-2.048-5-WAS5.31/XOR	11.84
8025931	VIS21-2.048-2-WAS5.31/S366	11.83	8025998	TIS21-2.048-0,3-WAS5.31/S74	11.84
8025932	VIS21-2.048-5-WAS5.31/S366	11.83	8025999	TIS21-2.048-0,6-WAS5.31/S74	11.84
8025934	VAS22-0.220-10/P00	10.1	8026000	TIS21-2.048-1-WAS5.31/S74	11.84
8025935	VAS22-0.220-10/XOR	10.1	8026001	TIS21-2.048-1,5-WAS5.31/S74	11.84
8025936	VAS22-0.220-2/S74	10.1	8026002	TIS21-2.048-2-WAS5.31/S74	11.84
8025937	VAS22-0.220-5/S74	10.1	8026003	TIS21-2.048-5-WAS5.31/S74	11.84
8025938	VAS22-0.220-10/S74	10.1	8026005	TIS21-2.048-0,3-WAS5.31/S366	11.84
8025939	VAS22-0.220-5/S366	10.1	8026006	TIS21-2.048-0,6-WAS5.31/S366	11.84
8025940	VAS22-0.220-10/S366	10.1	8026007	TIS21-2.048-1-WAS5.31/S366	11.84
8025941	VAS22-2.048-2/S366	10.2	8026008	TIS21-2.048-1,5-WAS5.31/S366	11.84
8025942	VAS22-2.048-5/S366	10.2	8026009	TIS21-2.048-2-WAS5.31/S366	11.84
8025943	VAS22-2.048-10/S366	10.2	8026010	TIS21-2.048-5-WAS5.31/S366	11.84
8025944	VBS21-0.220-2/S398	10.15	8026012	TIS21-2.048-0,3-WAS5.31/S398	11.84
8025945	VBS21-0.220-5/S398	10.15	8026013	TIS21-2.048-0,6-WAS5.31/S398	11.84
8025946	VBS21-0.220-10/S398	10.15	8026014	TIS21-2.048-1-WAS5.31/S398	11.84
8025947	VBS21-2.048-2/S398	10.16	8026015	TIS21-2.048-1,5-WAS5.31/S398	11.84
8025948	VBS21-2.048-5/S398	10.16	8026016	TIS21-2.048-2-WAS5.31/S398	11.84
8025949	VBS21-2.048-10/S398	10.16	8026017	TIS21-2.048-5-WAS5.31/S398	11.84
8025950	VIS21-0.220-2/S398	10.21	8026019	VASD41-4.048-0,3-WAS5/S366	11.80

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8026021	VASD41-4.048-1-WAS5/S366	11.80	8026170	FSM4-2WAK3-1/1/S366	12.18
8026022	VASD41-4.048-1,5-WAS5/S366	11.80	8026171	FSM4-2WAK3-1,5/1,5/S366	12.18
8026023	VASD41-4.048-2-WAS5/S366	11.80	8026172	FSM4-2WAK3-2/2/S366	12.18
8026024	VASD41-4.048-5-WAS5/S366	11.80	8026173	FSM4-2WAK3-5/5/S366	12.18
8026032	MKCU12.001-5/S366	7.1	8026175	FKM4-2SP3-0,3/0,3/S366	12.19
8026033	MKCU12.001-10/S366	7.1	8026176	FKM4-2SP3-0,6/0,6/S366	12.19
8026035	MKCU12.001-15/S366	7.1	8026177	FKM4-2SP3-1/1/S366	12.19
8026036	MKCU19.001-5/S366	7.2	8026178	FKM4-2SP3-1,5/1,5/S366	12.19
8026037	MKCU19.001-10/S366	7.2	8026179	FKM4-2SP3-2/2/S366	12.19
8026038	MKCU19.001-15/S366	7.2	8026180	FKM4-2SP3-5/5/S366	12.19
8026039	MKCU12.003-5/S366	7.3	8026182	FKM4-2SP3-0,3/0,3/S77/S398	12.19
8026041	MKCU12.003-10/S366	7.3	8026183	FKM4-2SP3-0,6/0,6/S77/S398	12.19
8026042	MKCU12.003-15/S366	7.3	8026184	FKM4-2SP3-1/1/S77/S398	12.19
8026043	WMKCU12.001-5/S366	7.9	8026185	FKM4-2SP3-1,5/1,5/S77/S398	12.19
8026044	WMKCU12.001-10/S366	7.9	8026186	FKM4-2SP3-2/2/S77/S398	12.19
8026045	WMKCU12.001-15/S366	7.9	8026187	FKM4-2SP3-5/5/S77/S398	12.19
8026046	WMKCU19.001-5/S366	7.10	8026189	FKM4-2SSP3-0,3/0,3/S366	12.20
8026047	WMKCU19.001-10/S366	7.10	8026190	FKM4-2SSP3-0,6/0,6/S366	12.20
8026048	WMKCU19.001-15/S366	7.10	8026191	FKM4-2SSP3-1/1/S366	12.20
8026049	WMKCU12.003-5/S366	7.11	8026192	FKM4-2SSP3-1,5/1,5/S366	12.20
8026050	WMKCU12.003-10/S366	7.11	8026193	FKM4-2SSP3-2/2/S366	12.20
8026051	WMKCU12.003-15/S366	7.11	8026194	FKM4-2SSP3-5/5/S366	12.20
8026062	VASD41-4.048-2/S366	10.7	8026196	FSM4-2SKP3-0,3/0,3/S366	12.21
8026063	VASD41-4.048-5/S366	10.7	8026197	FSM4-2SKP3-0,6/0,6/S366	12.21
8026065	VASD41-4.048-10/S366	10.7	8026198	FSM4-2SKP3-1/1/S366	12.21
8026066	TAS31-0.220-2/S366	10.8	8026199	FSM4-2SKP3-1,5/1,5/S366	12.21
8026067	TAS31-0.220-5/S366	10.8	8026200	FSM4-2SKP3-2/2/S366	12.21
8026068	TAS31-0.220-10/S366	10.8	8026201	FSM4-2SKP3-5/5/S366	12.21
8026069	TAS31-0.220-2/S398	10.8	8026203	FSM4-2KP3-0,3/0,3/S366	12.22
8026070	TAS31-0.220-5/S398	10.8	8026204	FSM4-2KP3-0,6/0,6/S366	12.22
8026071	TAS31-0.220-10/S398	10.8	8026205	FSM4-2KP3-1/1/S366	12.22
8026072	TAS31-2.048-2/S366	10.9	8026206	FSM4-2KP3-1,5/1,5/S366	12.22
8026073	TAS31-2.048-5/S366	10.9	8026207	FSM4-2KP3-2/2/S366	12.22
8026074	TAS31-2.048-10/S366	10.9	8026208	FSM4-2KP3-5/5/S366	12.22
8026075	TAS31-2.048-2/S398	10.9	8026210	FSM4-2KP3-0,3/0,3/S77/S398	12.22
8026076	TAS31-2.048-5/S398	10.9	8026211	FSM4-2KP3-0,6/0,6/S77/S398	12.22
8026077	TAS31-2.048-10/S398	10.9	8026212	FSM4-2KP3-1/1/S77/S398	12.22
8026078	TBS21-0.220-2/S398	10.19	8026213	FSM4-2KP3-1,5/1,5/S77/S398	12.22
8026079	TBS21-0.220-5/S398	10.19	8026214	FSM4-2KP3-2/2/S77/S398	12.22
8026080	TBS21-0.220-10/S398	10.19	8026215	FSM4-2KP3-5/5/S77/S398	12.22
8026081	TBS21-2.048-2/S398	10.20	8026217	FSM5-2VAS22-2.048-0,3/0,3/S366	12.23
8026082	TBS21-2.048-5/S398	10.20	8026218	FSM5-2VAS22-2.048-0,6/0,6/S366	12.23
8026083	TBS21-2.048-10/S398	10.20	8026219	FSM5-2VAS22-2.048-1/1/S366	12.23
8026084	TIS21-0.220-2/S398	10.25	8026220	FSM5-2VAS22-2.048-1,5/1,5/S366	12.23
8026085	TIS21-0.220-5/S398	10.25	8026221	FSM5-2VAS22-2.048-2/2/S366	12.23
8026086	TIS21-0.220-10/S398	10.25	8026223	FSM5-2VAS22-2.048-5/5/S366	12.23
8026087	TIS21-2.048-2/S398	10.26	8026224	FKM4-2WAS3-1,5/1,5/S398	12.17
8026088	TIS21-2.048-5/S398	10.26	8026225	FKM4-2WAS3-5/5/S398	12.17
8026089	TIS21-2.048-10/S398	10.26	8026227	FKM4-2SSP3-0,6/0,6/S77/S398	12.20
8026161	FKM4-2WAS3-0,3/0,3/S366	12.17	8026228	FKM4-2SSP3-1/1/S77/S398	12.20
8026162	FKM4-2WAS3-0,6/0,6/S366	12.17	8026229	FKM4-2SSP3-1,5/1,5/S77/S398	12.20
8026163	FKM4-2WAS3-1/1/S366	12.17	8026230	FKM4-2SSP3-2/2/S77/S398	12.20
8026164	FKM4-2WAS3-1,5/1,5/S366	12.17	8026231	FKM4-2SSP3-5/5/S77/S398	12.20
8026165	FKM4-2WAS3-2/2/S366	12.17	8026233	FSM4-2SKP3-0,3/0,3/S77/S398	12.21
8026166	FKM4-2WAS3-5/5/S366	12.17	8026234	FSM4-2SKP3-2/2/S77/S398	12.21
8026168	FSM4-2WAK3-0,3-0,3/S366	12.18	8026235	FSM4-2SKP3-5/5/S77/S398	12.21

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8026238	FSM5-2VAS22-2.048-1,5/1,5/S398	12.23	8027041	FC-WWAK3-1,5-FC-WAS3/S2020	4.12
8026239	FSM5-2VAS22-2.048-2/2/S398	12.23	8027042	FC-WWAK3-2-FC-WAS3/S2020	4.12
8026240	FSM5-2VAS22-2.048-5/5/S398	12.23	8027043	FC-WWAK3-5-FC-WAS3/S2020	4.12
8026801	WMKAU14.003-2/S1118	6.3	8027045	FC-WWAK4-0,3-FC-WAS4/S2020	4.13
8026802	WMKAU14.003-2/S1117	6.3	8027046	FC-WWAK4-0,6-FC-WAS4/S2020	4.13
8026870	FC-WWAK3-10/S2010	4.3	8027047	FC-WWAK4-1-FC-WAS4/S2020	4.13
8026875	FC-WWAK3-2/S2010	4.3	8027048	FC-WWAK4-1,5-FC-WAS4/S2020	4.13
8026876	FC-WWAK3-5/S2010	4.3	8027049	FC-WWAK4-2-FC-WAS4/S2020	4.13
8026881	FC-WWAK4-2/S2010	4.3	8027050	FC-WWAK4-5-FC-WAS4/S2020	4.13
8026882	FC-WWAK4-5/S2010	4.3	8027052	FC-WWAK5-0,3-FC-WAS5/S2010	4.14
8026883	FC-WWAK4-10/S2010	4.3	8027053	FC-WWAK5-0,6-FC-WAS5/S2010	4.14
8026888	FC-WWAK4.5-2/S2010	4.4	8027054	FC-WWAK5-1-FC-WAS5/S2010	4.14
8026889	FC-WWAK4.5-5/S2010	4.4	8027055	FC-WWAK5-1,5-FC-WAS5/S2010	4.14
8026890	FC-WWAK4.5-10/S2010	4.4	8027056	FC-WWAK5-2-FC-WAS5/S2010	4.14
8026895	FC-WWAK5-2/S2010	4.4	8027057	FC-WWAK5-5-FC-WAS5/S2010	4.14
8026896	FC-WWAK5-5/S2010	4.4	8027059	FC-WWAK5-0,3-FC-WAS5/S2020	4.14
8026897	FC-WWAK5-10/S2010	4.4	8027060	FC-WWAK5-0,6-FC-WAS5/S2020	4.14
8026911	FC-WWAK3-2/S2020	4.3	8027061	FC-WWAK5-1-FC-WAS5/S2020	4.14
8026912	FC-WWAK3-5/S2020	4.3	8027062	FC-WWAK5-1,5-FC-WAS5/S2020	4.14
8026913	FC-WWAK3-10/S2020	4.3	8027063	FC-WWAK5-2-FC-WAS5/S2020	4.14
8026918	FC-WWAK4-2/S2020	4.3	8027064	FC-WWAK5-5-FC-WAS5/S2020	4.14
8026919	FC-WWAK4-5/S2020	4.3	8027066	FC-WWAK3P2-0,3-FC-WAS3/S2010	4.15
8026920	FC-WWAK4-10/S2020	4.3	8027067	FC-WWAK3P2-0,6-WAS3/S2010	4.15
8026925	FC-WWAK4.5-2/S2020	4.4	8027068	FC-WWAK3P2-1-FC-WAS3/S2010	4.15
8026926	FC-WWAK4.5-5/S2020	4.4	8027069	FC-WWAK3P2-1,5-FC-WAS3/S2010	4.15
8026927	FC-WWAK4.5-10/S2020	4.4	8027070	FC-WWAK3P2-2-FC-WAS3/S2010	4.15
8026932	FC-WWAK5-2/S2020	4.4	8027071	FC-WWAK3P2-5-WAS3/S2010	4.15
8026933	FC-WWAK5-5/S2020	4.4	8027088	FC-WWAK3P2-0,3-WAS3/S2020	4.15
8026934	FC-WWAK5-10/S2020	4.4	8027090	FC-WWAK3P2-0,6-WAS3/S2020	4.15
8026939	FC-WWAK3P2-2/S2010	4.5	8027091	FC-WWAK3P2-1-FC-WAS3/S2020	4.15
8026940	FC-WWAK3P2-5/S2010	4.5	8027092	FC-WWAK3P2-1,5-WAS3/S2020	4.15
8026941	FC-WWAK3P2-10/S2010	4.5	8027093	FC-WWAK3P2-2-WAS3/S2020	4.15
8026953	FC-WWAK4P3-2/S2010	4.6	8027094	FC-WWAK3P2-5-WAS3/S2020	4.15
8026954	FC-WWAK4P3-5/S2010	4.6	8027134	FC-WAS3-2/S2010	4.7
8026955	FC-WWAK4P3-10/S2010	4.6	8027135	FC-WAS3-5/S2010	4.7
8026965	FC-WWAK3P2-2/S2020	4.5	8027136	FC-WAS3-10/S2010	4.7
8026966	FC-WWAK3P2-5/S2020	4.5	8027137	FC-WAS4-2/S2010	4.7
8026967	FC-WWAK3P2-10/S2020	4.5	8027138	FC-WAS4-5/S2010	4.7
8026981	FC-WWAK4P3-2/S2020	4.6	8027139	FC-WAS4-10/S2010	4.7
8026982	FC-WWAK4P3-5/S2020	4.6	8027140	FC-WAS4.5-2/S2010	4.8
8026983	FC-WWAK4P3-10/S2020	4.6	8027141	FC-WAS4.5-5/S2010	4.8
8027000	FSM4-2SKP3/S55	12.5	8027142	FC-WAS4.5-10/S2010	4.8
8027023	FC-WWAK3-0,3-FC-WAS3/S2010	4.12	8027143	FC-WAS5-2/S2010	4.8
8027024	FC-WWAK3-0,6-FC-WAS3/S2010	4.12	8027144	FC-WAS5-5/S2010	4.8
8027025	FC-WWAK3-1-FC-WAS3/S2010	4.12	8027145	FC-WAS5-10/S2010	4.8
8027026	FC-WWAK3-1,5-FC-WAS3/S2010	4.12	8027146	FC-WAS3-2/S2020	4.7
8027027	FC-WWAK3-2-FC-WAS3/S2010	4.12	8027147	FC-WAS3-5/S2020	4.7
8027028	FC-WWAK3-5-FC-WAS3/S2010	4.12	8027148	FC-WAS3-10/S2020	4.7
8027030	FC-WWAK4-0,3-FC-WAS4/S2010	4.13	8027149	FC-WAS4-5/S2020	4.7
8027032	FC-WWAK4-0,6-FC-WAS4/S2010	4.13	8027150	FC-WAS4-10/S2020	4.7
8027033	FC-WWAK4-1-FC-WAS4/S2010	4.13	8027151	FC-WAS4.5-2/S2020	4.8
8027034	FC-WWAK4-1,5-FC-WAS4/S2010	4.13	8027153	FC-WAS4.5-5/S2020	4.8
8027035	FC-WWAK4-2-FC-WAS4/S2010	4.13	8027154	FC-WAS4.5-10/S2020	4.8
8027036	FC-WWAK4-5-FC-WAS4/S2010	4.13	8027155	FC-WAK3-0,3-FC-WAS3/S2010	4.9
8027038	FC-WWAK3-0,3-FC-WAS3/S2020	4.12	8027156	FC-WAK3-0,6-FC-WAS3/S2010	4.9
8027039	FC-WWAK3-0,6-FC-WAS3/S2020	4.12	8027157	FC-WAK3-1-FC-WAS3/S2010	4.9

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8027159	FC-WAK3-2-FC-WAS3/S2010	4.9	8027467	EC-FSD3-0,5/16	2.80
8027160	FC-WAK3-5-FC-WAS3/S2010	4.9	8027469	EC-FSD4-0,5/16	2.80
8027162	FC-WAK4-0,3-FC-WAS4/S2010	4.10	8027470	EC-FSD4.5-0,5/16	2.81
8027163	FC-WAK4-0,6-FC-WAS4/S2010	4.10	8027471	EC-FSD5-0,5/16	2.80
8027164	FC-WAK4-1-FC-WAS4/S2010	4.10	8027480	EC-FS3-0,5/20	2.118
8027165	FC-WAK4-1,5-FC-WAS4/S2010	4.10	8027481	EC-FS4-0,5/20	2.118
8027166	FC-WAK4-2-FC-WAS4/S2010	4.10	8027482	EC-FS4.5-0,5/20	2.119
8027167	FC-WAK4-5-FC-WAS4/S2010	4.10	8027483	EC-FS5-0,5/20	2.118
8027169	FC-WAK5-0,3-FC-WAS5/S2010	4.11	8027486	EC-FSD5-0,5/20	2.120
8027170	FC-WAK5-0,6-FC-WAS5/S2010	4.11	8027487	EC-FSD4.5-0,5/20	2.121
8027171	FC-WAK5-1-FC-WAS5/S2010	4.11	8027488	EC-FSD4-0,5/20	2.120
8027172	FC-WAK5-1,5-FC-WAS5/S2010	4.11	8027489	EC-FSD3-0,5/20	2.120
8027173	FC-WAK5-5-FC-WAS5/S2010	4.11	8027505	EC-FSFD5-0,5/16	2.82
8027174	FC-WAK5-2-FC-WAS5/S2010	4.11	8027506	EC-FSFD4.5-0,5/16	2.83
8027176	FC-WAK3-0,3-FC-WAS3/S2020	4.9	8027508	EC-FSFD4-0,5/16	2.82
8027177	FC-WAK3-0,6-FC-WAS3/S2020	4.9	8027509	EC-FSFD3-0,5/16	2.82
8027178	FC-WAK3-1-FC-WAS3/S2020	4.9	8027515	EC-FK3-0,5/16	2.53
8027179	FC-WAK3-1,5-FC-WAS3/S2020	4.9	8027516	EC-FK4-0,5/16	2.53
8027180	FC-WAK3-2-FC-WAS3/S2020	4.9	8027519	EC-FK4.5-0,5/16	2.54
8027181	FC-WAK3-5-FC-WAS3/S2020	4.9	8027520	EC-FK5-0,5/16	2.53
8027183	FC-WAK4-0,3-FC-WAS4/S2020	4.10	8027526	EC-FKD3-0,5/16	2.55
8027184	FC-WAK4-0,6-FC-WAS4/S2020	4.10	8027527	EC-FKD4-0,5/16	2.55
8027185	FC-WAK4-1-FC-WAS4/S2020	4.10	8027528	EC-FKD4.5-0,5/16	2.56
8027186	FC-WAK4-1,5-FC-WAS4/S2020	4.10	8027529	EC-FKD5-0,5/16	2.55
8027187	FC-WAK4-2-FC-WAS4/S2020	4.10	8027540	EC-FK3-0,5/20	2.103
8027188	FC-WAK4-5-FC-WAS4/S2020	4.10	8027542	EC-FK4-0,5/20	2.103
8027190	FC-WAK5-0,3-FC-WAS5/S2020	4.11	8027543	EC-FK4.5-0,5/20	2.104
8027191	FC-WAK5-0,6-FC-WAS5/S2020	4.11	8027544	EC-FK5-0,5/20	2.103
8027192	FC-WAK5-1-FC-WAS5/S2020	4.11	8027547	EC-FKFD3-0,5/16	2.57
8027193	FC-WAK5-1,5-FC-WAS5/S2020	4.11	8027548	EC-FKFD4-0,5/16	2.57
8027194	FC-WAK5-2-FC-WAS5/S2020	4.11	8027549	EC-FKFD4.5-0,5/16	2.58
8027195	FC-WAK5-5-FC-WAS5/S2020	4.11	8027550	EC-FKFD5-0,5/16	2.57
8027197	FC-WAS5-5/S2020	4.8	8027555	EC-FKD3-0,5/20	2.105
8027198	FC-WAS5-10/S2020	4.8	8027556	EC-FKD4-0,5/20	2.105
8027199	SKPS3-2/P00	5.6	8027557	EC-FKD4.5-0,5/20	2.106
8027200	SKPS4-2/P00	5.6	8027558	EC-FKD5-0,5/20	2.105
8027201	SSPS3-2/P00	5.20	8027566	EC-FK3-L/16	2.68
8027203	SSPS4-2/P00	5.20	8027569	EC-FK4-L-16	2.68
8027204	SWSPS3-2/P00	5.26	8027570	EC-FK5-L/16	2.68
8027205	SWSPS4-2/P00	5.26	8027572	EC-FK3-L/20	2.113
8027206	SKPS3-2-SSPS3/P00	11.61	8027573	EC-FK4-L/20	2.113
8027207	SKPS4-2-SSPS4/P00	11.62	8027574	EC-FK5-L/20	2.113
8027208	SWKPS3-2-SWSPS3/P00	11.75	8027588	WAK12-2/P00	2.4
8027209	SWKPS4-2-SWSPS4/P00	11.76	8027589	WAK12-5/P00	2.4
8027231	WMKAU14.003-5/S1117	6.3	8027590	WAK12-10/P00	2.4
8027232	WMKAU14.003-10/S1117	6.3	8027591	WAK12-2/S366	2.4
8027233	WMKAU14.003-5/S1118	6.3	8027592	WAK12-5/S366	2.4
8027234	WMKAU14.003-10/S1118	6.3	8027593	WAK12-10/S366	2.4
8027235	WMKAU19.001-5/S1117	6.4	8027594	WAS12-2/P00	2.32
8027236	WMKAU19001-10/S1117	6.4	8027595	WAS12-5/P00	2.32
8027237	WMKAU19.001-5/S1118	6.4	8027596	WAS12-10/P00	2.32
8027238	WMKAU19.001-10/S1118	6.4	8027597	WAS12-2/S366	2.32
8027352	SKPS4-5-SSPS4/P00	11.62	8027598	WAS12-5-5/S366	2.32
8027382	EC-FS3-0,5/16	2.78	8027599	WAS12-10/S366	2.32
8027383	EC-FS4-0,5/16	2.78	8027600	VWAK12-2/P00	2.20
8027393	EC-FS5-0,5/16	2.78	8027601	VWAK12-5/P00	2.20

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8027602	WWAK12-10/P00	2.20	8027921	MB-SSP4P3-2SKP3-5/5/S366	12.25
8027603	WWAK12-2/S366	2.20	8027923	MB-SSP4P3-2SKP3-0,3/0,3/XOR	12.25
8027604	WWAK12-5/S366	2.20	8027924	MB-SSP4P3-2SKP3-0,6/0,6/XOR	12.25
8027605	WWAK12-10/S366	2.20	8027925	MB-SSP4P3-2SKP3-1/1/XOR	12.25
8027606	WWAS12-2/P00	2.46	8027926	MB-SSP4P3-2SKP3-1,5/1,5/XOR	12.25
8027607	WWAS12-5/P00	2.46	8027927	MB-SSP4P3-2SKP3-2/2/XOR	12.25
8027608	WWAS12-10/P00	2.46	8027928	MB-SSP4P3-2SKP3-5/5/XOR	12.25
8027609	WWAS12-2/S366	2.46	8027930	MB-SSP4P3-2SKP3-0,3/0,3/S74	12.25
8027610	WWAS12-5/S366	2.46	8027931	MB-SSP4P3-2SKP3-0,6/0,6/S74	12.25
8027611	WWAS12-10/S366	2.46	8027932	MB-SSP4P3-2SKP3-1/1/S74	12.25
8027612	Sensor-Adapter push-pull M12x1	4.16, 4.17	8027933	MB-SSP4P3-2SKP3-1,5/1,5/S74	12.25
8027861	MB-SSP4-2SKP3-0,3/0,3/P00	12.24	8027934	MB-SSP4P3-2SKP3-2/2/S74	12.25
8027862	MB-SSP4-2SKP3-0,6/0,6/P00	12.24	8027935	MB-SSP4P3-2SKP3-5/5/S74	12.25
8027863	MB-SSP4-2SKP3-1,5/1,5/P00	12.24	8027937	MB-SSP4P3-2SKP3-0,3/0,3/S77/S398	12.25
8027864	MB-SSP4-2SKP3-2/2/P00	12.24	8027938	MB-SSP4P3-2SKP3-0,6/0,6/S77/S398	12.25
8027865	MB-SSP4-2SKP3-5/5/P00	12.24	8027939	MB-SSP4P3-2SKP3-1/1/S77/S398	12.25
8027868	MB-SSP4-2SKP3-0,3/0,3/S90	12.24	8027940	MB-SSP4P3-2SKP3-1,5/1,5/S77/S398	12.25
8027869	MB-SSP4-2SKP3-0,6/0,6/S90	12.24	8027941	MB-SSP4P3-2SKP3-2/2/S77/S398	12.25
8027870	MB-SSP4-2SKP3-1/1/S90	12.24	8027942	MB-SSP4P3-2SKP3-5/5/S77/S398	12.25
8027871	MB-SSP4-2SKP3-1,5/1,5/S90	12.24	8027944	MB-2SKP3-0,3-SSP4/P00	12.26
8027872	MB-SSP4-2SKP3-2/2/S90	12.24	8027945	MB-2SKP3-0,6-SSP4/P00	12.26
8027873	MB-SSP4-2SKP3-5/5/S90	12.24	8027946	MB-2SKP3-1,5-SSP4/P00	12.26
8027875	MB-SSP4-2SKP3-0,3/0,3/S366	12.24	8027947	MB-2SKP3-2-SSP4/P00	12.26
8027876	MB-SSP4-2SKP3-0,6/0,6/S366	12.24	8027948	MB-2SKP3-5-SSP4/P00	12.26
8027877	MB-SSP4-2SKP3-1/1/S366	12.24	8027950	MB-2SKP3-0,3-SSP4/S90	12.26
8027878	MB-SSP4-2SKP3-1,5/1,5/S366	12.24	8027951	MB-2SKP3-0,6-SSP4/S90	12.26
8027879	MB-SSP4-2SKP3-2/2/S366	12.24	8027952	MB-2SKP3-1-SSP4/S90	12.26
8027880	MB-SSP4-2SKP3-5/5/S366	12.24	8027953	MB-2SKP3-1,5-SSP4/S90	12.26
8027882	MB-SSP4-2SKP3-0,3/0,3/XOR	12.24	8027954	MB-2SKP3-2-SSP4/S90	12.26
8027883	MB-SSP4-2SKP3-0,6/0,6/XOR	12.24	8027955	MB-2SKP3-5-SSP4/S90	12.26
8027884	MB-SSP4-2SKP3-1/1/XOR	12.24	8027957	MB-2SKP3-0,3-SSP4/S77/S366	12.26
8027885	MB-SSP4-2SKP3-1,5/1,5/XOR	12.24	8027958	MB-2SKP3-0,6-SSP4/S77/S366	12.26
8027886	MB-SSP4-2SKP3-2/2/XOR	12.24	8027959	MB-2SKP3-1-SSP4/S77/S366	12.26
8027887	MB-SSP4-2SKP3-5/5/XOR	12.24	8027960	MB-2SKP3-1,5-SSP4/S77/S366	12.26
8027889	MB-SSP4-2SKP3-0,3/0,3/S74	12.24	8027961	MB-2SKP3-2-SSP4/S77/S366	12.26
8027890	MB-SSP4-2SKP3-0,6/0,6/S74	12.24	8027962	MB-2SKP3-5-SSP4/S77/S366	12.26
8027891	MB-SSP4-2SKP3-1/1/S74	12.24	8027964	MB-2SKP3-0,3-SSP4/XOR	12.26
8027892	MB-SSP4-2SKP3-1,5/1,5/S74	12.24	8027965	MB-2SKP3-0,6-SSP4/XOR	12.26
8027894	MB-SSP4-2SKP3-2/2/S74	12.24	8027966	MB-2SKP3-1-SSP4/XOR	12.26
8027895	MB-SSP4-2SKP3-5/5/S74	12.24	8027967	MB-2SKP3-1,5-SSP4/XOR	12.26
8027897	MB-SSP4-2SKP3-0,3/0,3/S77/S398	12.24	8027968	MB-2SKP3-2-SSP4/XOR	12.26
8027898	MB-SSP4-2SKP3-0,6/0,6/S77/S398	12.24	8027969	MB-2SKP3-5-SSP4/XOR	12.26
8027899	MB-SSP4-2SKP3-1/1/S77/S398	12.24	8027971	MB-2SKP3-0,3-SSP4/S77/S398	12.26
8027900	MB-SSP4-2SKP3-1,5/1,5/S77/S398	12.24	8027972	MB-2SKP3-0,6-SSP4/S77/S398	12.26
8027901	MB-SSP4-2SKP3-2/2/S77/S398	12.24	8027973	MB-2SKP3-1-SSP4/S77/S398	12.26
8027902	MB-SSP4-2SKP3-5/5/S77/S398	12.24	8027974	MB-2SKP3-1,5-SSP4/S77/S398	12.26
8027906	MB-SSP4P3-2SKP3-0,3/0,3/S90	12.25	8027975	MB-2SKP3-2-SSP4/S77/S398	12.26
8027908	MB-SSP4P3-2SKP3-0,6/0,6/S90	12.25	8027976	MB-2SKP3-5-SSP4/S77/S398	12.26
8027909	MB-SSP4P3-2SKP3-1/1/S90	12.25	8027978	MB-2SKP3P3-0,3-SSP4/P00	12.27
8027910	MB-SSP4P3-2SKP3-1,5/1,5/S90	12.25	8027979	MB-2SKP3P3-0,6-SSP4/P00	12.27
8027913	MB-SSP4P3-2SKP3-2/2/S90	12.25	8027980	MB-2SKP3P3-1,5-SSP4/P00	12.27
8027914	MB-SSP4P3-2SKP3-5/5/S90	12.25	8027981	MB-2SKP3P3-2-SSP4/P00	12.27
8027916	MB-SSP4P3-2SKP3-0,3/0,3/S366	12.25	8027982	MB-2SKP3P3-5-SSP4/P00	12.27
8027917	MB-SSP4P3-2SKP3-0,6/0,6/S366	12.25	8027984	MB-2SKP3P3-0,3-SSP4/S90	12.27
8027918	MB-SSP4P3-2SKP3-1/1/S366	12.25	8027985	MB-2SKP3P3-0,6-SSP4/S90	12.27
8027919	MB-SSP4P3-2SKP3-1,5/1,5/S366	12.25	8027986	MB-2SKP3P3-1-SSP4/S90	12.27
8027920	MB-SSP4P3-2SKP3-2/2/S366	12.25	8027987	MB-2SKP3P3-1,5-SSP4/S90	12.27

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8027988	MB-2SKP3P3-2-SSP4/S90	12.27	8028140	EC-FKE5-0,5/20	2.107
8027989	MB-2SKP3P3-5-SSP4/S90	12.27	8028141	EC-FKDE3-0,5/20	2.109
8027991	MB-2SKP3P3-0,3-SSP4/S77/S366	12.27	8028142	EC-FKDE4-0,5/20	2.109
8027992	MB-2SKP3P3-0,6-SSP4/S77/S366	12.27	8028143	EC-FKDE4.5-0,5/20	2.110
8027993	MB-2SKP3P3-1-SSP4/S77/S366	12.27	8028144	EC-FKDE5-0,5/20	2.109
8027994	MB-2SKP3P3-1,5-SSP4/S77/S366	12.27	8028145	EC-FSE3-0,5/16	2.84
8027995	MB-2SKP3P3-2-SSP4/S77/S366	12.27	8028147	EC-FSE4-0,5/16	2.84
8027996	MB-2SKP3P3-5-SSP4/S77/S366	12.27	8028148	EC-FSE4.5-0,5/16	2.85
8027998	MB-2SKP3P3-0,3-SSP4/XOR	12.27	8028149	EC-FSE5-0,5/16	2.84
8027999	MB-2SKP3P3-0,6-SSP4/XOR	12.27	8028150	EC-FSDE3-0,5/16	2.86
8028000	MB-2SKP3P3-1-SSP4/XOR	12.27	8028151	EC-FSDE4-0,5/16	2.86
8028001	MB-2SKP3P3-1,5-SSP4/XOR	12.27	8028152	EC-FSDE4.5-0,5/16	2.87
8028002	MB-2SKP3P3-2-SSP4/XOR	12.27	8028153	EC-FSDE5-0,5/16	2.86
8028003	MB-2SKP3P3-5-SSP4/XOR	12.27	8028154	EC-FSE3-0,5/20	2.122
8028005	MB-2SKP3P3-0,3-SSP4/S77/S398	12.27	8028155	EC-FSE4-0,5/20	2.122
8028006	MB-2SKP3P3-0,6-SSP4/S77/S398	12.27	8028156	EC-FSE4.5-0,5/20	2.123
8028007	MB-2SKP3P3-1-SSP4/S77/S398	12.27	8028157	EC-FSE8-0,5/20	2.122
8028008	MB-2SKP3P3-1,5-SSP4/S77/S398	12.27	8028158	EC-FSDE3-0,5/20	2.124
8028009	MB-2SKP3P3-2-SSP4/S77/S398	12.27	8028159	EC-FSDE4-0,5/20	2.124
8028010	MB-2SKP3P3-5-SSP4/S77/S398	12.27	8028160	EC-FSDE4.5-0,5/20	2.125
8028013	MB-SSP4P3-2SKP3-0,3/0,3/P00	12.25	8028161	EC-FSDE5-0,5/20	2.124
8028014	MB-SSP4P3-2SKP3-0,6/0,6/P00	12.25	8028293	SKPS3-5/P00	5.6
8028015	MB-SSP4P3-2SKP3-1,5/1,5/P00	12.25	8028294	SKPS3-10/P00	5.6
8028016	MB-SSP4P3-2SKP3-2/2/P00	12.25	8028295	SKPS3-2/S366	5.6
8028017	MB-SSP4P3-2SKP3-5/5/P00	12.25	8028296	SKPS3-5/S366	5.6
8028072	EC-FS8-0,5/16	2.79	8028297	SKPS3-10/S366	5.6
8028073	EC-FS12-0,5/16	2.79	8028298	SKPS4-5/P00	5.6
8028074	EC-FSD8-0,5/16	2.81	8028299	SKPS4-10/P00	5.6
8028075	EC-FS8-0,5/20	2.119	8028300	SKPS4-2/S366	5.6
8028076	EC-FSD8-0,5/20	2.121	8028301	SKPS4-5/S366	5.6
8028077	EC-FSD12-0,5/16	2.81	8028302	SKP4-10/S366	5.6
8028078	EC-FS12-0,5/20	2.119	8028306	SWKPS3-5/P00	5.12
8028079	EC-FSD12-0,5/20	2.121	8028307	SWKPS3-10/P00	5.12
8028080	EC-FSFD8-0,5/16	2.83	8028308	SWKPS3-5/S366	5.12
8028110	EC-FK8-0,5/16	2.54	8028309	SWKPS3-10/S366	5.12
8028111	EC-FKD8-0,5/16	2.56	8028311	SWKPS4-5/S366	5.12
8028112	EC-FK8-0,5/20	2.104	8028312	SWKPS4-5/P00	5.12
8028115	EC-FKD8-0,5/20	2.106	8028313	SWKPS4-10/P00	5.12
8028116	EC-FK12-0,5/16	2.54	8028314	SWKPS4-10/S366	5.12
8028117	EC-FKD12-0,5/16	2.56	8028315	SSPS3-5/P00	5.20
8028118	EC-FK12-0,5/20	2.104	8028316	SSPS3-10/P00	5.20
8028119	EC-FKD12-0,5/20	2.106	8028317	SSPS3-2/S366	5.20
8028120	EC-FKFD8-0,5/16	2.58	8028318	SSPS3-5/S366	5.20
8028121	EC-FKFD12-0,5/16	2.58	8028319	SSPS3-10/S366	5.20
8028122	EC-FK8-L/16	2.69	8028320	SSPS4-5/P00	5.20
8028123	EC-FK8-L/20	2.114	8028321	SSPS4-10/P00	5.20
8028126	EC-FKE3-0,5/16	2.59	8028322	SSPS4-2/S366	5.20
8028127	EC-FKE4-0,5/16	2.59	8028323	SSPS4-5/S366	5.20
8028128	EC-FKE4.5-0,5/16	2.60	8028324	SSPS4-10/S366	5.20
8028131	EC-FKE5-0,5/16	2.59	8028325	SWSPS3-5/P00	5.26
8028132	EC-FKDE3-0,5/16	2.61	8028326	SWSPS3-10/P00	5.26
8028133	EC-FKDE4-0,5/16	2.61	8028327	SWSPS3-2/S366	5.26
8028135	EC-FKDE4.5-0,5/16	2.62	8028328	SWSPS3-5/S266	5.26
8028136	EC-FKDE5-0,5/16	2.61	8028329	SWSPS3-10/S366	5.26
8028137	EC-FKE3-0,5/20	2.107	8028330	SWSPS4-5/P00	5.26
8028138	EC-FKE4-0,5/20	2.107	8028331	SWSPS4-10/P00	5.26
8028139	EC-FKE4.5-0,5/20	2.108	8028332	SWSPS4-2/S366	5.26

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8028333	SWSPS4-5/S366	5.26	8028554	EC-FSFD12-0,5/16	2.83
8028334	SWSPS4-10/S366	5.26	8028611	WWAKS12-2/P00	2.26
8028335	SKPS3-0,3-SSPS3/P00	11.61	8028612	WWAKS12-5/P00	2.26
8028336	SKPS3-0,6-SSPS3/P00	11.61	8028613	WWAKS12-10/P00	2.26
8028337	SKPS3-1-SSPS3/P00	11.61	8028614	WWAKS12-2/S366	2.26
8028338	SKPS3-1,5-SSPS3/P00	11.61	8028615	WWAKS12-5/S366	2.26
8028339	SKPS3-5-SSPS3/P00	11.61	8028616	WWAKS12-10/S366	2.26
8028341	SKPS3-0,3-SSPS3/S366	11.61	8028617	WWASS12-2/P00	2.49
8028342	SKPS3-0,6-SSPS3/S366	11.61	8028618	WWASS12-5/P00	2.49
8028343	SKPS3-1-SSPS3/S366	11.61	8028619	WWASS12-10/P00	2.49
8028344	SKPS3-1,5-SSPS3/S366	11.61	8028620	WWASS12-2/S366	2.49
8028345	SKPS3-2-SSPS3/S366	11.61	8028621	WWASS12-5/S366	2.49
8028346	SKPS3-5-SSP3/S366	11.61	8028622	WWASS12-10/S366	2.49
8028348	SKPS4-0,3-SSPS4/P00	11.62	8028723	VC-AC21-0.220-K	10.3
8028349	SKPS4-0,6-SSPS4/P00	11.62	8028724	VC-BC21-0.220-K	10.17
8028350	SKPS4-1-SSPS4/P00	11.62	8028725	VC-IC21-0.220-K	10.23
8028351	SKPS4-1,5-SSPS4/P00	11.62	8028726	VC-CC8.21-0.220-K	10.29
8028354	SKPS4-0,3-SSPS4/S366	11.62	8028727	VC-CC9.21-0.220-K	10.35
8028355	SKPS4-0,6-SSPS4/S366	11.62	8028728	VC-AC21-11.024-K	10.4
8028356	SKPS4-1-SSPS4/S366	11.62	8028729	VC-BC21-11.024-K	10.18
8028357	SKPS4-1,5-SSPS4/S366	11.62	8028730	VC-IC21-11.024-K	10.24
8028358	SKPS4-2-SSPS4/S366	11.62	8028731	VC-CC8.21-11.024-K	10.30
8028359	SKPS4-5-SSPS4/S366	11.62	8028732	VC-CC9.21-11.024-K	10.36
8028361	SWKPS3-0,3-SWSPS3/P00	11.75	8029015	EC-FKE8-0,5/16	2.60
8028362	SWKPS3-0,6-SWSPS3/P00	11.75	8029016	EC-FKE8-L/16	2.71
8028363	SWKPS3-1-SWSPS3/P00	11.75	8029020	EC-FKE8-L/20	2.116
8028364	SWKPS3-1,5-SWSPS3/P00	11.75	8029021	EC-FKE8-0,5/20	2.108
8028365	SWKPS3-5-SWSPS3/P00	11.75	8029038	EC-FKDE8-0,5/16	2.62
8028367	SWKPS3-0,3-SWSPS3/S366	11.75	8029039	EC-FKDE8-0,5/20	2.110
8028368	SWKPS3-0,6-SWSPS3/S366	11.75	8029083	EC-FSE8-0,5/16	2.85
8028369	SWKPS3-1-SWSPS3/S366	11.75	8029084	EC-FSDE8-0,5/16	2.87
8028370	SWKPS3-1,5-SWSPS3/S366	11.75	8029088	EC-FSE8-0,5/20	2.123
8028371	SWKPS3-2-SWSPS3/S366	11.75	8029157	EC-FSDE8-0,5/20	2.125
8028372	SWKPS3-5-SWSPS3/S366	11.75	8029158	EC-FSFDE8-0,5/16	2.89
8028374	SWKPS4-0,3-SWSPS4/P00	11.76	8029160	EC-FKFDE8-0,5/16	2.64
8028375	SWKPS4-0,6-SWSPS4/P00	11.76	8029169	EC-FKE3-L/16	2.70
8028376	SWKPS4-1-SWSPS4/P00	11.76	8029170	EC-FKE4-L/16	2.70
8028377	SWKPS4-1,5-SWSPS4/P00	11.76	8029171	EC-FKE5-L/16	2.70
8028378	SWKPS4-5-SWSPS4/P00	11.76	8029172	EC-FKE3-L/20	2.115
8028380	SWKPS4-0,3-SWSPS4/S366	11.76	8029173	EC-FKE4-L/20	2.115
8028381	SWKPS4-0,6-SWSPS4/S366	11.76	8029174	EC-FKE5-L/16	2.115
8028382	SWKPS4-1-SWSPS4/S366	11.76	8029175	EC-FKFDE3-0,5/16	2.63
8028383	SWKPS4-1,5-SWSPS4/S366	11.76	8029176	EC-FKFDE4-0,5/16	2.63
8028384	SWKPS4-2-SWSPS4/S366	11.76	8029189	EC-FKFDE5-0,5/16	2.63
8028385	SWKPS4-5-SWSPS4/S366	11.76	8029212	EC-FSFDE12-0,5/16	2.89
8028457	WASS12-2/P00	2.35	8029213	EC-FSFDE3-0,5/16	2.88
8028458	WASS12-2/S366	2.35	8029214	EC-FSFDE4-0,5/16	2.88
8028489	WASS12-5/P00	2.35	8029215	EC-FSFDE4.5-0,5/16	2.89
8028490	WASS12-10/P00	2.35	8029216	EC-FSFDE5-0,5/16	2.88
8028491	WASS12-5/S366	2.35	8029344	EC-FSE12-0,5/16	2.85
8028492	WASS12-10/S366	2.35	8029345	EC-FSE12-0,5/20	2.123
8028493	WAKS12-2/P00	2.8	8029346	EC-FSDE12-0,5/16	2.87
8028494	WAKS12-5/P00	2.8	8029347	EC-FSDE12-0,5/20	2.125
8028495	WAKS12-10/P00	2.8	8029476	EC-FKFD3-P/16	2.73
8028496	WAKS12-2/S366	2.8	8029477	EC-FKFD4-P/16	2.73
8028497	WAKS12-5/S366	2.8	8029478	EC-FKFD5-P/16	2.73
8028498	WAKS12-10/S366	2.8	8029479	EC-FKFD8-P/16	2.74

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8029480	EC-FKFD12-P/16	2.74	8029696	EC-FKE12-0,5/16	2.60
8029495	EC-FSFD3-P/16	2.98	8029697	EC-FKE12-0,5/20	2.108
8029496	EC-FSFDE3-P/16	2.100	8029698	EC-FKDE12-0,5/16	2.62
8029497	EC-FSFD4-P/16	2.98	8029699	EC-FKDE12-0,5/20	2.110
8029498	EC-FSFDE4-P/16	2.100	8029700	EC-FKFDE12-0,5/16	2.64
8029499	EC-FSFD4.5-P/16	2.99	8029740	EC-FKW5-0,5/20	2.111
8029500	EC-FSFDE4.5-P/16	2.101	8029752	EC-FKFDE4.5-0,5/16	2.64
8029501	EC-FSFD5-P/16	2.98	8029796	MKAU14.001-2/S1117	6.1
8029502	EC-FSFDE5-P/16	2.100	8029797	MKAU14.001-2/S1118	6.1
8029503	EC-FSFD8-P/16	2.99	8029798	MKAU14.003-2/S1117	6.1
8029504	EC-FSFDE8-P/16	2.101	8029799	MKAU14.003-2/S1118	6.1
8029505	EC-FSFD12-P/16	2.99	8029813	MKAU19.001-2/S1117	6.2
8029506	EC-FSFDE12-P/16	2.101	8029814	MKAU19.001-2/S1118	6.2
8029508	EC-FKFDE4-P/16	2.75	8029865	MKAU14.001-5/S1117	6.1
8029509	EC-FKFDE5-P/16	2.75	8029866	MKAU14.001-10/S1117	6.1
8029510	EC-FKFDE8-P/16	2.76	8029867	MKAU14.001-5/S1118	6.1
8029512	EC-FKFDE12-P/16	2.76	8029868	MKAU14.001-10/S1118	6.1
8029545	EC-FS3-L/6	2.93	8029869	MKAU14.003-5/S1117	6.1
8029546	EC-FS4-L/16	2.93	8029870	MKAU14.003-10/S1117	6.1
8029547	EC-FS4.5-L/16	2.94	8029871	MKAU14.003-5/S1118	6.1
8029548	EC-FS5-L/16	2.93	8029872	MKAU14.003-10/S1118	6.1
8029551	EC-FS8-L/16	2.94	8029873	MKAU19.001-5/S1117	6.2
8029552	EC-FS12-L/16	2.94	8029874	MKAU19.001-10/S1117	6.2
8029553	EC-FSE3-L/16	2.95	8029875	MKAU19.001-5/S1118	6.2
8029554	EC-FSE4-L/16	2.95	8029876	MKAU19.001-10/S1118	6.2
8029555	EC-FSE4.5-L/16	2.96	8031290	WAK8.005-2/S1117	2.3
8029556	EC-FSE5-L/16	2.95	8031291	WAK8.005-5/S1117	2.3
8029557	EC-FSE8-L/16	2.96	8031292	WAK8.005-10/S1117	2.3
8029558	EC-FSE12-L/16	2.96	8031293	WWAK8.005-2/S1117	2.19
8029575	EC-FS3-L/20	2.128	8031294	WWAK8.005-5/S1117	2.19
8029576	EC-FS4-L/20	2.128	8031295	WWAK8.005-10/S1117	2.19
8029577	EC-FS4.5-L/20	2.129	8031583	VC-AC31-0.220-K	10.10
8029578	EC-FS5-L/20	2.128	8031584	VC-AC31-11.024-K	10.11
8029579	EC-FS8-L/20	2.129	8033631	FB-FK4-0,5/S2300	9.20
8029580	EC-FS12-L/20	2.129	8033632	FB-FS4-0,5/S2300	9.22
8029581	EC-FSE3-L/20	2.130	8033633	FB-FK4-L/S2300	9.21
8029582	EC-FSE4-L/20	2.130	8033634	FB-FS4-L/S2300	9.23
8029583	EC-FSE4.5-L/20	2.131	8033664	FB-WAK4-5/S2300	9.1
8029584	EC-FSE5-L/20	2.130	8033665	FB-WAK4-10/S2300	9.1
8029585	EC-FSE8-L/20	2.131	8033667	FB-WWAK4-5/S2300	9.2
8029586	EC-FSE12-L/20	2.131	8033668	FB-WWAK4-10/S2300	9.2
8029676	EC-FKFDW5-0,5/16	2.67	8033670	FB-WAS4-5/S2300	9.4
8029677	EC-FKW5-0,5/16	2.65	8033671	FB-WAS4-10/S2300	9.4
8029678	EC-FKDW5-0,5/16	2.66	8033673	FB-WWAS4-5/S2300	9.5
8029681	EC-FKDW5-0,5/20	2.112	8033674	FB-WWAS4-10/S2300	9.5
8029682	EC-FKW5-L/16	2.72	8033677	FB-WAK4-5-FB-WAS4/S2300	9.7
8029683	EC-FKW5-L/20	2.117	8033678	FB-WAK4-10-FB-WAS4/S2300	9.7
8029684	EC-FKFDW5-P/16	2.77	8033681	FB-WAK4-5-FB-WAK4/S2300	9.6
8029685	EC-FSW5-L/16	2.97	8033682	FB-WAK4-10-FB-WAK4/S2300	9.6
8029686	EC-FWS5-L/20	2.132	8033685	FB-WAS4-5-FB-WAS4/S2300	9.8
8029687	EC-FSFDW5-P/16	2.102	8033686	FB-WAS4-10-FB-WAS4/S2300	9.8
8029688	EC-FSW5-0,5/16	2.90	8033689	FB-WWAK4-5-FB-WWAS4/S2300	9.10
8029689	EC-FSW5-0,5/20	2.126	8033690	FB-WWAK4-10-FB-WWAS4/S2300	9.10
8029690	EC-FSFDW5-0,5/16	2.92	8033693	FB-WWAK4-5-FB-WWAK4/S2300	9.9
8029691	EC-FSDW5-0,5/16	2.91	8033694	FB-WWAK4-10-FB-WWAK4/S2300	9.9
8029692	EC-FSDW5-0,5/20	2.127	8033697	FB-WWAS4-5-FB-WWAS4/S2300	9.11
8029695	EC-FKFDE3-P/16	2.75	8033698	FB-WWAS4-10-FB-WWAS4/S2300	9.11

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8034191	FB-WAK4-2/S2300	9.1	8037311	EC-FK3-0,5/16/S2470	8.42
8034194	FB-WWAK4-2/S2300	9.2	8037322	EC-FK4-0,5/16/S2470	8.42
8034685	FB-WAK4-2-FB-WAS4/S2300	9.7	8037323	EC-FK4.5-0,5/16/S2470	8.42
8035188	FB-SKP3-5/S2300	9.12	8037324	EC-FK8-0,5/16/S2470	8.43
8035192	WASCS8K	2.41	8037325	EC-FK12-0,5/16/S2470	8.43
8035193	WAKCS8K	2.14	8037406	SV-WAS3-2/S90	3.7
8035251	WASCS4K	2.40	8037407	WAKS8-2/S2429/S2430	8.5
8035252	WASCS5K	2.40	8037408	WAKS8-5/S2429/S2430	8.5
8035253	WAKCS4K	2.13	8037409	WAKS8-10/S2429/S2430	8.5
8035254	WAKCS5K	2.13	8037429	SV-WWAS3-2/S90	3.10
8035643	FB-WWAK4P2-5/S2300	9.3	8037430	SV-WWAS4-2/S90	3.10
8035867	FB-SKP4-5/S2300	9.12	8037431	SV-WWAS5-2/S90	3.11
8035868	FB-SWKP3-5/S2300	9.13	8038290	FB-WWAK4P2-2/S2300	9.3
8035869	FB-SWKP4-5/S2300	9.13	8038336	SV-WAK4-5/S366	3.1
8035870	FB-SSP3-5/S2300	9.14	8038337	SV-WWAK4-5/S366	3.4
8035871	FB-SSP4-5/S2300	9.14	8038342	WAS4.5-10/S2429/S2430	8.11
8035872	FB-SWSP3-5/S2300	9.15	8038435	SV-WAK3-5/S90	3.1
8035873	FB-SWSP4-5/S2300	9.15	8038436	SV-WAK4-5/S90	3.1
8035949	FB-WWAK4-2-FB-WWAS4/S2300	9.10	8038437	SV-WAK5-5/S90	3.2
8036085	WAK3-5/S2429/S2430	8.1	8038438	SV-WWAK3-5/S90	3.4
8036086	WAK4-5/S2429/S2430	8.1	8038439	SV-WWAK5-5/S90	3.5
8036087	WAK4.5-5/S2429/S2430	8.2	8038445	SV-WAK3-5/S366	3.1
8036088	WWAK3-5/S2429/S2430	8.7	8038446	SV-WAK5-5/S366	3.2
8036089	WWAK4-5/S2429/S2430	8.7	8038447	SV-WWAK3-5/S366	3.4
8036090	WWAK4.5-5/S2429/S2430	8.8	8038448	SV-WWAK5-5/S366	3.5
8036091	WAS3-5/S2429/S2430	8.10	8038449	SV-WWAK4-5/S90	3.4
8036092	WAS4-5/S2429/S2430	8.10	8038523	SV-WAK4-2/S90	3.1
8036093	WAS4.5-5/S2429/S2430	8.11	8038524	SV-WWAK4-2/S90	3.4
8036094	WWAS3-5/S2429/S2430	8.16	8038575	SV-WWAK4-10/S90	3.4
8036095	WWAS4-5/S2429/S2430	8.16	8038576	SV-WAK4-10/S90	3.1
8036096	WWAS4.5-5/S2429/S2430	8.17	8038600	SV-WAS3-2/S366	3.7
8036097	SKP3-5/S2429/S2430	8.34	8038603	SV-WAS4-2/S366	3.7
8036098	SKP4-5/S2429/S2430	8.34	8038610	SV-WAS5-2/S366	3.8
8036099	SWKP3-5/S2429/S2430	8.35	8038613	SV-WWAS3-2/S366	3.10
8036100	SWKP4-5/S2429/S2430	8.35	8038616	SV-WWAS4-2/S366	3.10
8036101	SSP3-5/S2429/S2430	8.36	8038622	SV-WWAS5-2/S366	3.11
8036102	SSP4-5/S2429/S2430	8.36	8038668	WAK4-2-WAS4/S2429/S2430	8.20
8036103	SWSP3-5/S2429/S2430	8.37	8038669	WAK4-5-WAS4/S2429/S2430	8.20
8036104	SWSP4-5/S2429/S2430	8.37	8038670	WAK4-10-WAS4/S2429/S2430	8.20
8036154	WAK4-10/S2429/S2430	8.1	8038700	SV-WWAK3-2/S90	3.4
8036165	FB-SKP4-2/S2300	9.12	8038701	SV-WAK3-2/S90	3.1
8036166	FB-SKP4-10/S2300	9.12	8038742	SV-WAK4-10/S366	3.1
8036273	FB-WWAK4P2-10/S2300	9.3	8038811	EC-FS8-L/16/S2470	8.49
8036275	EC-FS4-L/16/S2470	8.48	8038834	SV-WAK4-2/S366	3.1
8036446	SV-WAS4-2/S90	3.7	8039047	SV-WWAK4-2/S366	3.4
8036518	WAK4-2/S2429/S2430	8.1	8039081	WAKS4-2/S2429/S2430	8.4
8036605	SKP3-2/S2429/S2430	8.34	8039124	WAKS4.5-10/S2429/S2430	8.5
8037024	WWAK8-5/S2429/S2430	8.8	8039137	WWAK4-5-WWAS4/S2429/S2430	8.30
8037152	SV-WAS5-2/S90	3.8	8039210	WAK3-2/S2429/S2430	8.1
8037214	WWAK4-10/S2429/S2430	8.7	8039211	WAK3-10/S2429/S2430	8.1
8037215	SKP4-10/S2429/S2430	8.34	8039212	WAK4.5-2/S2429/S2430	8.2
8037216	SWKP4-10/S2429/S2430	8.35	8039213	WAK4.5-10/S2429/S2430	8.2
8037288	EC-FS3-0,5/16/S2470	8.46	8039214	WAK8-2/S2429/S2430	8.2
8037292	EC-FS4-0,5/16/S2470	8.46	8039215	WAK8-5/S2429/S2430	8.2
8037293	EC-FS4.5-0,5/16/S2470	8.46	8039216	WAK8-10/S2429/S2430	8.2
8037294	EC-FS8-0,5/16/S2470	8.47	8039217	WAKS3-2/S2429/S2430	8.4
8037295	EC-FS12-0,5/16/S2470	8.47	8039218	WAKS3-5/S2429/S2430	8.4

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8039219	WAKS3-10/S2429/S2430	8.4	8039429	SV-WAK5-10/S90	3.2
8039220	WAKS4-5/S2429/S2430	8.4	8039430	SV-WAK3-10/S90	3.1
8039221	WAKS4-10/S2429/S2430	8.4	8039431	SV-WWAK3-10/S90	3.4
8039222	WAKS4.5-2/S2429/S2430	8.5	8039432	SV-WWAK5-2/S90	3.5
8039223	WAKS4.5-5/S2429/S2430	8.5	8039433	SV-WWAK5-10/S90	3.5
8039224	WWAK3-2/S2429/S2430	8.7	8039434	SV-WAK3-2/S366	3.1
8039225	WWAK3-10/S2429/S2430	8.7	8039435	SV-WAK3-10/S366	3.1
8039226	WWAK4-2/S2429/S2430	8.7	8039436	SV-WAK5-2/S366	3.2
8039227	WWAK4.5-2/S2429/S2430	8.8	8039437	SV-WAK5-10/S366	3.2
8039228	WWAK4.5-10/S2429/S2430	8.8	8039438	SV-WWAK3-2/S366	3.4
8039229	WWAK8-2/S2429/S2430	8.8	8039439	SV-WWAK3-10/S366	3.4
8039230	WWAK8-10/S2429/S2430	8.8	8039440	SV-WWAK4-10/S366	3.4
8039231	WAS3-2/S2429/S2430	8.10	8039441	SV-WWAK5-2/S366	3.5
8039232	WAS3-10/S2429/S2430	8.10	8039442	SV-WWAK5-10/S366	3.5
8039233	WAS4-2/S2429/S2430	8.10	8039443	SV-WAS3-5/S90	3.7
8039234	WAS4-10/S2429/S2430	8.10	8039444	SV-WAS3-10/S90	3.7
8039235	WAS4.5-2/S2429/S2430	8.11	8039445	SV-WAS4-10/S90	3.7
8039236	WAS8-2/S2429/S2430	8.11	8039446	SV-WAS5-5/S90	3.8
8039237	WAS8-5/S2429/S2430	8.11	8039447	SV-WAS5-10/S90	3.8
8039238	WAS8-10/S2429/S2430	8.11	8039448	SV-WWAS3-5/S90	3.10
8039239	WASS3-2/S2429/S2430	8.13	8039449	SV-WWAS3-10/S90	3.10
8039240	WASS3-5/S2429/S2430	8.13	8039450	SV-WWAS4-10/S90	3.10
8039241	WASS3-10/S2429/S2430	8.13	8039451	SV-WWAS5-5/S90	3.11
8039242	WASS4-2/S2429/S2430	8.13	8039452	SV-WWAS5-10/S90	3.11
8039243	WASS4-5/S2429/S2430	8.13	8039453	SV-WAS3-5/S366	3.7
8039244	WASS4-10/S2429/S2430	8.13	8039454	SV-WAS3-10/S366	3.7
8039245	WASS4.5-2/S2429/S2430	8.14	8039455	SV-WAS4-10/S366	3.7
8039246	WASS4.5-5/S2429/S2430	8.14	8039456	SV-WAS5-5/S366	3.8
8039247	WASS4.5-10/S2429/S2430	8.14	8039457	SV-WAS5-10/S366	3.8
8039248	WASS8-2/S2429/S2430	8.14	8039458	SV-WWAS3-5/S366	3.10
8039249	WASS8-5/S2429/S2430	8.14	8039461	SV-WWAS3-10/S366	3.10
8039250	WASS8-10/S2429/S2430	8.14	8039462	SV-WWAS4-10/S366	3.10
8039303	FB-WAS4-2/S2300	9.4	8039463	SV-WWAS5-5/S366	3.11
8039304	FB-WWAS4-2/S2300	9.5	8039464	SV-WWAS5-10/S366	3.11
8039305	FB-WAK4-2-FB-WAK4/S2300	9.6	8039467	WWAS3-2/S2429/S2430	8.16
8039306	FB-WAS4-2-FB-WAS4/S2300	9.8	8039468	WWAS3-10/S2429/S2430	8.16
8039307	FB-WWAK4-2-FB-WWAK4/S2300	9.9	8039469	WWAS4-2/S2429/S2430	8.16
8039308	FB-WWAS4-2-FB-WWAS4/S2300	9.11	8039470	WWAS4-10/S2429/S2430	8.16
8039374	SV-WAS4-5/S366	3.7	8039471	WWAS4.5-2/S2429/S2430	8.17
8039375	SV-WWAS4-5/S366	3.10	8039472	WWAS4.5-10/S2429/S2430	8.17
8039376	SV-WAS4-5/S90	3.7	8039473	WWAS8-2/S2429/S2430	8.17
8039377	SV-WWAS4-5/S90	3.10	8039474	WWAS8-5/S2429/S2430	8.17
8039414	FB-SKP3-2/S2300	9.12	8039475	WWAS8-10/S2429/S2430	8.17
8039415	FB-SKP3-10/S2300	9.12	8039476	WWAS12-2/S2429/S2430	8.18
8039416	FB-SWKP3-2/S2300	9.13	8039477	WWAS12-5/S2429/S2430	8.18
8039417	FB-SWKP3-10/S2300	9.13	8039478	WWAS12-10/S2429/S2430	8.18
8039418	FB-SWKP4-2/S2300	9.13	8039479	WAK3-2-WAS3/S2429/S2430	8.19
8039419	FB-SSP3-2/S2300	9.14	8039480	WAK3-5-WAS3/S2429/S2430	8.19
8039420	FB-SWKP4-10/S2300	9.13	8039481	WAK3-10-WAS3/S2429/S2430	8.19
8039421	FB-SSP3-10/S2300	9.14	8039482	SKP3-10/S2429/S2430	8.34
8039422	FB-SSP4-2/S2300	9.14	8039483	SKP4-2/S2429/S2430	8.34
8039423	FB-SSP4-10/S2300	9.14	8039484	SWKP3-2/S2429/S2430	8.35
8039424	FB-SWSP3-2/S2300	9.15	8039485	SWKP3-10/S2429/S2430	8.35
8039425	FB-SWSP3-10/S2300	9.15	8039486	SWKP4-2/S2429/S2430	8.35
8039426	FB-SWSP4-2/S2300	9.15	8039487	SSP3-2/S2429/S2430	8.36
8039427	FB-SWSP4-10/S2300	9.15	8039488	SSP3-10/S2429/S2430	8.36
8039428	SV-WAK5-2/S90	3.2	8039489	SSP4-2/S2429/S2430	8.36

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8039490	SSP4-10/S2429/S2430	8.36	8039671	SV-WAK4-5-SV-WAS4/S366	3.14
8039491	SWSP3-2/S2429/S2430	8.37	8039672	SV-WAK4-10-SV-WAS4/S366	3.14
8039492	SWSP3-10/S2429/S2430	8.37	8039673	SV-WAK5-2-SV-WAS5/S366	3.15
8039493	SWSP4-2/S2429/S2430	8.37	8039674	SV-WAK5-5-SV-WAS5/S366	3.15
8039494	SWSP4-10/S2429/S2430	8.37	8039675	SV-WAK5-10-SV-WAS5/S366	3.15
8039551	SV-WAK8-2/S90	3.2	8039679	EC-FK8-L/16/S2470	8.45
8039552	SV-WAK8-5/S90	3.2	8039680	EC-FK12-L/16/S2470	8.45
8039553	SV-WAK8-10/S90	3.2	8039684	SV-WAK8-2-SV-WAS8/S366	3.16
8039590	SV-WWAK3-2-SV-WWAS3/S90	3.18	8039685	SV-WAK8-5-SV-WAS8/S366	3.16
8039591	SV-WAK3-2-SV-WAS3/S90	3.13	8039686	SV-WAK8-10-SV-WAS8/S366	3.16
8039592	SV-WAK3-5-SV-WAS3/S90	3.13	8039687	SV-WAK12-2-SV-WAS12/S366	3.17
8039594	SV-WWAK4-2-SV-WWAS4/S90	3.19	8039688	SV-WAK12-5-SV-WAS12/S366	3.17
8039595	SV-WWAK5-2-SV-WWAS5/S90	3.20	8039689	SV-WAK12-10-SV-WAS12/S366	3.17
8039597	SV-WWAK8-2-SV-WWAS8/S90	3.21	8039696	FB-SKP3-2-FB-SSP3/S2300	9.16
8039599	SV-WWAK3-5-SV-WWAS3/S90	3.18	8039697	FB-SKP3-5-FB-SSP3/S2300	9.16
8039600	SV-WWAK4-5-SV-WWAS4/S90	3.19	8039698	FB-SKP3-10-FB-SSP3/S2300	9.16
8039601	SV-WWAK5-5-SV-WWAS5/S90	3.20	8039699	FB-SKP4-2-FB-SSP4/S2300	9.17
8039603	SV-WWAK8-5-SV-WWAS8/S90	3.21	8039700	FB-SKP4-5-FB-SSP4/S2300	9.17
8039611	SV-WWAK3-10-SV-WWAS3/S90	3.18	8039701	FB-SKP4-10-FB-SSP4/S2300	9.17
8039612	SV-WWAK4-10-SV-WWAS4/S90	3.19	8039702	FB-SWKP3-2-FB-SWSP3/S2300	9.18
8039613	SV-WWAK5-10-SV-WWAS5/S90	3.20	8039703	FB-SWKP3-5-FB-SWSP3/S2300	9.18
8039615	SV-WWAK8-10-SV-WWAS8/S90	3.21	8039704	FB-SWKP3-10-FB-SWSP3/S2300	9.18
8039617	SV-WWAK3-2-SV-WWAS3/S366	3.18	8039705	FB-SWKP4-2-FB-SWSP4/S2300	9.19
8039618	SV-WWAK4-2-SV-WWAS4/S366	3.19	8039706	FB-SWKP4-5-FB-SWSP4/S2300	9.19
8039619	SV-WWAK5-2-SV-WWAS5/S366	3.20	8039707	FB-SWKP4-10-FB-SWSP4/S2300	9.19
8039621	SV-WWAK8-2-SV-WWAS8/S366	3.21	8039711	WAK12-2/S2429/S2430	8.3
8039622	SV-WWAK12-2-SV-WWAS12/S366	3.22	8039712	WAK12-5/S2429/S2430	8.3
8039623	SV-WWAK3-5-SV-WWAS3/S366	3.18	8039713	WAK12-10/S2429/S2430	8.3
8039624	SV-WWAK4-5-SV-WWAS4/S366	3.19	8039719	WAKS12-2/S2429/S2430	8.6
8039625	SV-WWAK5-5-SV-WWAS5/S366	3.20	8039720	WAKS12-5/S2429/S2430	8.6
8039627	SV-WWAK8-5-SV-WWAS8/S366	3.21	8039721	WAKS12-10/S2429/S2430	8.6
8039628	SV-WWAK12-5-SV-WWAS12/S366	3.22	8039728	SV-WWAK8-2/S90	3.5
8039629	SV-WWAK3-10-SV-WWAS3/S366	3.18	8039729	SV-WWAK8-5/S90	3.5
8039630	SV-WWAK4-10-SV-WWAS4/S366	3.19	8039730	SV-WWAK8-10/S90	3.5
8039631	SV-WWAK5-10-SV-WWAS5/S366	3.20	8039738	SV-WAK8-2/S366	3.2
8039633	SV-WWAK8-10-SV-WWAS8/S366	3.21	8039739	SV-WAK8-5/S366	3.2
8039634	SV-WWAK12-10-SV-WWAS12/S366	3.22	8039740	SV-WAK8-10/S366	3.2
8039641	SV-WAK3-10-SV-WAS3/S90	3.13	8039741	SV-WAK12-2/S366	3.3
8039642	SV-WAK4-2-SV-WAS4/S90	3.14	8039742	SV-WAK12-5/S366	3.3
8039644	SV-WAK4-5-SV-WAS4/S90	3.14	8039743	SV-WAK12-10/S366	3.3
8039645	EC-FS3-L/16/S2470	8.48	8039747	SV-WWAK8-2/S366	3.5
8039646	SV-WAK4-10-SV-WAS4/S90	3.14	8039748	SV-WWAK8-5/S366	3.5
8039647	EC-FS4.5-L/16/S2470	8.48	8039749	SV-WWAK8-10/S366	3.5
8039648	SV-WAK5-2-SV-WAS5/S90	3.15	8039750	SV-WWAK12-2/S366	3.6
8039649	SV-WAK5-5-SV-WAS5/S90	3.15	8039751	SV-WWAK12-5/S366	3.6
8039650	SV-WAK5-10-SV-WAS5/S90	3.15	8039752	SV-WWAK12-10/S366	3.6
8039654	SV-WAK8-2-SV-WAS8/S90	3.16	8039756	SV-WAS8-2/S90	3.8
8039655	SV-WAK8-5-SV-WAS8/S90	3.16	8039757	SV-WAS8-5/S90	3.8
8039657	SV-WAK8-10-SV-WAS8/S90	3.16	8039758	SV-WAS8-10/S90	3.8
8039661	EC-FS12-L/16/S2470	8.49	8039765	SV-WWAS8-2/S90	3.11
8039662	EC-FK3-L/16/S2470	8.44	8039766	SV-WWAS8-5/S90	3.11
8039663	EC-FK4-L/16/S2470	8.44	8039767	SV-WWAS8-10/S90	3.11
8039664	EC-FK5-L/16/S2470	8.44	8039774	SV-WAS8-2/S366	3.8
8039665	SV-WAK3-2-SV-WAS3/S366	3.13	8039775	SV-WAS8-5/S366	3.8
8039667	SV-WAK3-5-SV-WAS3/S366	3.13	8039776	SV-WAS8-10/S366	3.8
8039668	SV-WAK3-10-SV-WAS3/S366	3.13	8039777	SV-WAS12-2/S366	3.9
8039670	SV-WAK4-2-SV-WAS4/S366	3.14	8039778	SV-WAS12-5/S366	3.9

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8039783	SV-WWAS8-2/S366	3.11	8040003	WAKS4.5-5-WASS4.5/S2429/S2430	8.26
8039784	SV-WWAS8-5/S366	3.11	8040004	WAKS4.5-10-WASS4.5/S2429/S2430	8.26
8039785	SV-WWAS8-10/S366	3.11	8040005	WAKS8-2-WASS8/S2429/S2430	8.27
8039786	SV-WWAS12-2/S366	3.12	8040006	WAKS8-5-WASS8/S2429/S2430	8.27
8039787	SV-WWAS12-5/S366	3.12	8040007	WAKS8-10-WASS8/S2429/S2430	8.27
8039788	SV-WWAS12-10/S366	3.12	8040008	WAKS12-2-WASS12/S2429/S2430	8.28
8039940	WWAK12-2/S2429/S2430	8.9	8040009	WAKS12-5-WASS12/S2429/S2430	8.28
8039941	WWAK12-5/S2429/S2430	8.9	8040010	WAKS12-10-WASS12/S2429/S2430	8.28
8039942	WWAK12-10/S2429/S2430	8.9	8040117	FSFD5	2.149
8039943	WAS12-2/S2429/S2430	8.12			
8039944	WAS12-5/S2429/S2430	8.12			
8039945	WAS12-10/S2429/S2430	8.12			
8039946	WASS12-2/S2429/S2430	8.15			
8039947	WASS12-5/S2429/S2430	8.15			
8039948	WASS12-10/S2429/S2430	8.15			
8039949	WAK4.5-2-WAS4.5/S2429/S2430	8.21			
8039950	WAK4.5-5-WAS4.5/S2429/S2430	8.21			
8039951	WAK4.5-10-WAS4.5/S2429/S2430	8.21			
8039952	WAK8-2-WAS8/S2429/S2430	8.22			
8039953	WAK8-5-WAS8/S2429/S2430	8.22			
8039954	WAK8-10-WAS8/S2429/S2430	8.22			
8039955	WAK12-2-WAS12/S2429/S2430	8.23			
8039956	WAK12-5-WAS12/S2429/S2430	8.23			
8039957	WAK12-10-WAS12/S2429/S2430	8.23			
8039958	WWAK3-2-WWAS3/S2429/S2430	8.29			
8039959	WWAK3-5-WWAS3/S2429/S2430	8.29			
8039960	WWAK3-10-WWAS3/S2429/S2430	8.29			
8039961	WWAK4-2-WWAS4/S2429/S2430	8.30			
8039962	WWAK4-10-WWAS4/S2429/S2430	8.30			
8039963	WWAK4.5-2-WWAS4.5/S2429/S2430	8.31			
8039964	WWAK4.5-5-WWAS4.5/S2429/S2430	8.31			
8039965	WWAK4.5-10-WWAS4.5/S2429/S2430	8.31			
8039966	WWAK8-2-WWAS8/S2429/S2430	8.32			
8039967	WWAK8-5-WWAS8/S2429/S2430	8.32			
8039968	WWAK8-10-WWAS8/S2429/S2430	8.32			
8039969	WWAK12-2-WWAS12/S2429/S2430	8.33			
8039970	WWAK12-5-WWAS12/S2429/S2430	8.33			
8039971	WWAK12-10-WWAS12/S2429/S2430	8.33			
8039972	SKP3-2-SSP3/S2429/S2430	8.38			
8039973	SKP3-5-SSP3/S2429/S2430	8.38			
8039974	SKP3-10-SSP3/S2429/S2430	8.38			
8039975	SKP4-2-SSP4/S2429/S2430	8.39			
8039976	SKP4-5-SSP4/S2429/S2430	8.39			
8039977	SKP4-10-SSP4/S2429/S2430	8.39			
8039978	SWKP3-2-SWSP3/S2429/S2430	8.40			
8039979	SWKP3-5-SWSP3/S2429/S2430	8.40			
8039980	SWKP3-10-SWSP3/S2429/S2430	8.40			
8039981	SWKP4-2-SWSP4/S2429/S2430	8.41			
8039982	SWKP4-5-SWSP4/S2429/S2430	8.41			
8039983	SWKP4-10-SWSP4/S2429/S2430	8.41			
8039996	WAKS3-2-WASS3/S2429/S2430	8.24			
8039997	WAKS3-5-WASS3/S2429/S2430	8.24			
8039998	WAKS3-10-WASS3/S2429/S2430	8.24			
8039999	WAKS4-2-WASS4/S2429/S2430	8.25			
8040000	WAKS4-5-WASS4/S2429/S2430	8.25			
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