Products
Telecom network cabling

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About Nexans

Nexans is the worldwide leader in the cable industry

The Group brings an extensive range of advanced copper and optical fiber cable solutions to the infrastructure, industry and building markets. Nexans cables and cabling systems can be found in every area of people's lives, from telecommunications and energy networks, to aeronautics, aerospace, automotive, railways, building, petrochemical, medical applications, etc.

With an industrial presence in more than 30 countries and commercial activities worldwide, Nexans employs 22,800 people and had sales in 2007 of 7.4 billion euros. Nexans is listed on NYSE Euronext Paris compartment.

Infrastructure

Nexans provides complete cables and cabling solutions for **power transmission and distribution**. New technologies, which are environmentally-friendly, increase capacity and reduce the danger of blackouts. To reinforce rail safety and efficiency, we have products customized tor the demanding railroad environment. And for telecoms and mobile operators, we can upgrade existing networks and create new ones anywhere in the world.

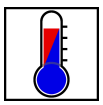
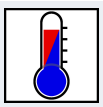
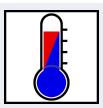
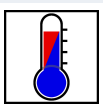
Industry

Nexans offers a complete portfolio of cables and solutions for market segments as diverse as the **automotive, rolling stock and aerospace industries, shipbuilding, nuclear power, oil & gas and petrochemicals, material handling and automation**. We add value through advanced technologies and durable high-performance products.

Building

Nexans supplies cables and network solutions for structures of all types: from small residences to public and office buildings and big industrial complexes. **Nexans pioneered fire-performance cables for public safety**, created industrial Ethernet solutions to unite the office and the factory floor platform, and ensured the highest standards of environmental friendliness and recyclability.

Symbols

U.V resistance	
Maximum admissible traction load	
Dynamic bending factor	
Smoke density	
Bending factor when installed	
Ambient installation temperature, range	
Mechanical resistance to impacts	
Minimum static operating bending radius	
Ambient static operating temperature, range	
Conductor flexibility	
Halogen free	
Weather resistance	
Operating temperature, range	
Storage temperature, range	
Maximum operating temperature	

Electro magnetic interference resistance	
Water proof	
Flame retardant	
Gases corrosivity	
Laying operation bending radius	

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Telecom network cabling

With experience in every aspect of cables, components and systems, Nexans is your ideal partner in a changing telecom environment. Nexans produces **a wide range of copper and optical fiber cables, and associated interconnect solutions**, like jointing and splicing boxes. Our R&D labs continue to design and refine products dedicated to open standards, while our proven network expertise means that we can integrate technologies to meet your specific needs, and provide turnkey projects worldwide.

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Telecom outdoor cables

With experience in every aspect of cables, components and systems, Nexans is your ideal partner in a changing telecom environment.

Nexans produces a wide range of copper and optical fiber cables, and associated interconnect solutions, like jointing and splicing boxes.

Our R&D labs continue to design and refine products dedicated to open standards, while our proven network expertise means that we can integrate technologies to meet your specific needs, and provide turnkey projects worldwide.

How Nexans can bring your network together:

- A wide range of advanced telecommunications cables and accessories
- Quality, high-speed networks at the lowest possible cost
- Powerful, leading-edge technology devoted to open standards
- International scope for global carriers
- Network expertise for long-distance, metropolitan and access links
- Full service and support

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Copper long distance cables

Symetric copper pairs cables for analogic or numeric transmissions. "Foam-Skin" Insulation . Assembled in quads.

Combined sheath "ALT " type, out of PE coated aluminium ribbon and low density Ployethylen. Longitudinaly watertight. Protection against rats, traction armouring, protection against electro-magnetic induction or outer fire resistent sheath on demand.

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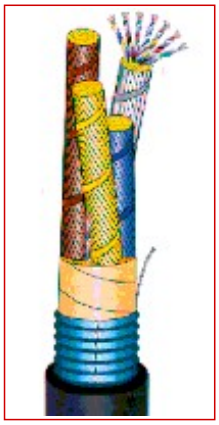
PTT 74 public telephone cables

Description



Application
Underground network cables used in feeder and distribution.

Specifications
- FRANCE TELECOM CSE C 12-12 (CNET L150 and L151),
- NF C 93-526 and NF C 93-527 Book 1.

Caracteristics
- Polyethylene insulation,
- Longitudinal watertightness,
- Mechanical protection,
- Polyethylene sheath.

Marking
xx yy FRANCE TELECOM 74 zzz t (manufacturer's identification) + sequentially numbered length marking at each meter interval.

- xx= number of the week of manufacturing,
- yy = number of the year of manufacturing,
- zzz = number of pairs in the cable,
- t = core diameter to 1/10th mm.

Standards
National NF C 93-526; NF C 93-526; NF C 93-527/1; NF C 93-527/1

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PTT 74 public telephone cables

Product List

=Make to order, =Make to stock

	Nexans ref.	Country ref.	Name
	10060439	01844786	PTT 74 112P 04 cut to length
	10060448	01844719	PTT 74 112P 06 cut to length
	10060437	01844727	PTT 74 14P 04 cut to length
	10060414	01844537	PTT 74 14P 06 cut to length
	10060417	01844920	PTT 74 14P 08 cut to length
	10060446	01844720	PTT 74 224P 04 cut to length
	10060428	01844538	PTT 74 224P 06 cut to length
	10060438	01844728	PTT 74 28P 04 cut to length
	10060415	01844700	PTT 74 28P 06 cut to length
	10060418	01844535	PTT 74 28P 08 cut to length
	10060436	01844717	PTT 74 56P 04 cut to length
	10060416	01844718	PTT 74 56P 06 cut to length
	10060419	01844536	PTT 74 56P 08 cut to length
	10060440	01844934	PTT 74 8P 04 cut to length
	10060413	01844716	PTT 74 8P 06 cut to length

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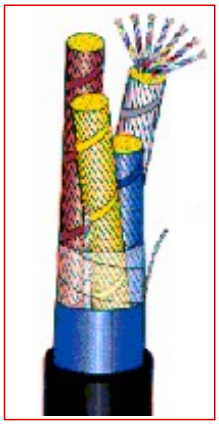
PTT 88-89 public telephone cables

Description



Application

Underground network cables, pulling in duct, polyethylen insulated and sheathed.

Specifications

- FRANCE TELECOM CSE C 12-12 (CNET L123 and L124),
- NF C 93-526 and NF C 93-527 Book 2.

Caracteristics

- Polyethylene insulation,
- Polyethylene sheath.

Marking

(Facultative for cables containing less than 14 pairs)

xx yy FRANCE TELECOM uu zzz t (manufacturer's identification) + sequentially numbered length marking at each meter interval.

- xx= number of the week of manufacturing,
- yy = number of the year of manufacturing,
- zzz = number of pairs in the cable,
- t = conductor diameter to 1/10th mm,
- uu = 88 for diameters 4/10 and 6/10, 89 for diameter 8/10.

Standards

National NF C 93-526; NF C 93-526; NF C 93-527/2; NF C 93-527/2

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PTT 88-89 public telephone cables

Product List

=Make to order, =Make to stock

Nexans ref.	Country ref.	Name	Conductor diam. (mm)	Number of pairs
10060400	01858870	PTT 88 112P 04 cut to length	0.4	112
10060394	01858470	PTT 88 112P 06 cut to length	0.6	112
10060397	01858840	PTT 88 14P 04 cut to length	0.4	14
10060282	01858440	PTT 88 14P 06 cut to length	0.6	14
10060401	01858880	PTT 88 224P 04 cut to length	0.4	224
10060395	01858480	PTT 88 224P 06 cut to length	0.6	224
10060398	01858850	PTT 88 28P 04 cut to length	0.4	28
10060447	01858450	PTT 88 28P 06 cut to length	0.6	28
10060399	01858860	PTT 88 56P 04 cut to length	0.4	56
10060283	01858460	PTT 88 56P 06 cut to length	0.6	56
10060396	01858830	PTT 88 8P 04 cut to length	0.4	56
10060281	01858430	PTT 88 8P 06 cut to length	0.6	8
10060406	01859070	PTT 89 112P 08 cut to length	0.8	112
10060403	01859040	PTT 89 14P 08 cut to length	0.8	14
10060404	01859050	PTT 89 28P 08 cut to length	0.8	28
10060405	01859060	PTT 89 56P 08 cut to length	0.8	56
10060402	01859030	PTT 89 8P 08 cut to length	0.8	8

= Make to order, = Make to stock

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PTT 98-99 public telephone cables

Description

Application

Aerial network cables, polyethylene insulated and sheathed.

Specifications

- FRANCE TELECOM CSE C 12-12 (CNET L123 and 124),
- NF C 93-526 and NF C 93-527 Book 3.

Caracteristics

- Polyethylene insulation,
- Polyethylene sheath,
- Steel messenger.

Marking

(Facultative for cables containing less than 14 pairs)

xx yy FRANCE TELECOM 74 zzz t (manufacturer's identification) + sequentially numbered length marking at each meter interval.

- xx= number of the week of manufacturing,
- yy = number of the year of manufacturing,
- zzz = number of pairs in the cable,
- t = conductor diameter to 1/10th mm,
- uu = 98 for diameters 4/10 and 6/10, 99 for diameter 8/10.

Standards

National NF C 93-526; NF C 93-526; NF C 93-527/3; NF C 93-527/3

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PTT 98-99 public telephone cables

Product List

=Make to order, =Make to stock

Nexans ref.	Country ref.	Name
10060442	01861140	PTT 98 14P 04 cut to length
10060443	01861150	PTT 98 28P 04 cut to length
10060280	01841160	PTT 98 4P 08 cut to length
10060441	01861130	PTT 98 8P 04 cut to length
10060411	01861440	PTT 99 14P 06 cut to length
10060408	01859240	PTT 99 14P 08 cut to length
10060412	01861450	PTT 99 28P 06 cut to length
10060409	01859250	PTT 99 28P 08 cut to length
10060444	01861160	PTT 99 56P 04 cut to length
10060445	01861460	PTT 99 56P 06 cut to length
10060410	01861430	PTT 99 8P 06 cut to length
10060407	01859230	PTT 99 8P 08 cut to length

= Make to order, = Make to stock

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Copper subscriber access cables

To answer growing subscriber demand for integrated voice, data and video to the office desk or home, Nexans has developed a family of "last mile" copper solutions allowing capacities up to 4,000 pairs with a full range of copper interconnect solutions.

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Underground

Symetric copper pairs cables . Insulation "Foam-Skin". Assembled in quads. Combined sheath type ALT out of Polyethylen and aluminium ribbon. Protection against rats or traction armouring .Fire resistant outer sheath on demand.

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Premium outside plant cables

Description

Applications

Cables for high-bit rate and data applications, up to 30 MHz. The product range goes from 25 to 1.200 pairs

Instalation

Outdoor plant cables for the access network to be installed in-duct

Construction

1. Conductor:
   - Electrolytic copper, 0,51 mm diameter
2. Insulation:
   - Solid poliyethylene
3. Pairing:
   - Short pitch pairs. Even-count color code
4. Stranding:
   - Units of 12, 13 and/or 25 pairs
5. Core wrapping:
   - Polyester tape with overlaping
6. Rip cord:
   - Nylon cord
7. Screening:
   - Sealed copolymer-aluminium tape
8. Sheating:
   - Polyethylene (LAP sheat)
9. External marking:
   - User defined, including meter count

Standards

International IEC 61156-1

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Premium outside plant cables

Characteristics

Construction characteristics	
Outer sheath	LAP
Screen	Aluminium copolymer
Lay Up	Short pitch pairs
Insulation	PE
Conductor material	Electrolytic copper
Dimensional characteristics	
Conductor diameter	0.5 mm
Electrical characteristics	
Capacitance unbalance pair to pair	45 pF/500m
Capacitance unbalance pair to screen	500 pF/500m
Dielectric strength core to core DC, min.	3.0 kV
Dielectric strength core to screen DC, min.	5.0 kV
Characteristic impedance, 0.3 MHz < f < 1 MHz	100 Ohm
Characteristic impedance, 1 MHz < f < 30 MHz	100 Ohm
Resistance unbalance DC max % of loop resistance	2 %
Max. DC-resistance of the conductor at 20° C	93 Ohm/km
Mutual capacity at 800 Hz, nominal	56 nF/km
Ohmical resistance of the insulation	20000 MOhm.km
Transmission characteristics	
Attenuation, max. 300 kHz	1.2 dB/100m
Attenuation, max. 1 MHz	2.1 dB/100m
Attenuation, max. 10 MHz	6.5 dB/100m
Attenuation, max. 20 MHz	9.3 dB/100m
Attenuation, max. 30 MHz	11.5 dB/100m

Transmission features

Parameter	Unit	Value	Standard
Return loss			
0.3 MHz < f < 20 MHz	dB / 100 m	23	IEC 61156-1
20 MHz < f < 30 MHz		23 -10 * log(f/20)	
Group delay			
0.3 MHz < f < 30 MHz	ns / 100 m	570	IEC 61156-1
Delay skew			
0.3 MHz < f < 30 MHz	ns / 100 m	45	IEC 61156-1
Individual PSNEXT			
0.3 MHz	dB	62	IEC 61156-1
1 MHz		54	
10 MHz		39	
20 MHz		34	
30 MHz		32	
Individual PSELFEXT			
0.3 MHz	dB / 100 m	63	IEC 61156-1
1 MHz		53	
10 MHz		33	
20 MHz		27	
30 MHz		23	

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Premium outside plant cables

Construction features

Number of pairs	Nom. outer diam. [mm]	Approx. weight [kg/km]
25	18.0	230
50	22.0	410
75	26.0	570
100	29.5	690
200	39.5	1270
300	44.5	1840
400	49.9	2410
600	60.0	3650
1200	82.9	6980

Selling delivery information

Product specifitation: ET-3470-1 (different pair-counts avaliable)

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CopperPlus 100 outdoor cables

Description

Applications

Cables for high-bit rate and data applications, up to 100 MHz. The product range goes from 4 hasta 100 pairs

Instalation

Outdoor plant cables for the access network to be installed in-duct

Construction

1. Conductor:
   - Electrolytic copper, 0,51 mm nominal diameter
2. Insulation:
   - Solid polyethylene
3. Pairing:
   - Short pitch pairs. Even-count color code
4. Stranding:
   - Basic unit: 25 pairs. One additional pair each 100
5. Core wrapping:
   - Polyester tape with overlapping
6. Screening:
   - Longitudinal overloapped sealed copolymer-aluminium tape
7. Sheathing:
   - Polyethylene (LAP sheath)
8. External marking:
   - User defined, including meter count

Standards

International IEC 61156-1

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CopperPlus 100 outdoor cables

Characteristics

Construction characteristics	
Outer sheath	LAP
Screen	Aluminium copolymer
Lay Up	Short pitch pairs
Conductor material	Electrolytic copper
Dimensional characteristics	
Conductor diameter	0.5 mm
Electrical characteristics	
Capacitance unbalance pair to pair	45 pF/500m
Capacitance unbalance pair to screen	500 pF/500m
Dielectric strength core to core DC, min.	5.0 kV
Dielectric strength core to screen DC, min.	10.0 kV
Impedance 1-100 MHz	100 Ohm
Resistance unbalance DC max % of loop resistance	2 %
Max. DC-resistance of the conductor at 20° C	93 Ohm/km
Mutual capacity at 800 Hz, nominal	52 nF/km
Ohmical resistance of the insulation	20000 MOhm.km
Transmission characteristics	
Attenuation at 1 Mhz	2.1 dB/100m
Attenuation, max. 10 MHz	6.5 dB/100m
Attenuation, max. 20 MHz	9.3 dB/100m
Attenuation, max. 31.25 MHz	11.7 dB/100m
Attenuation, max. 62.5 MHz	17 dB/100m
Attenuation, max. 100 MHz	22.00 dB/100m

Transmission features

Parameter	Unit	Value	Standard
Return loss			
1 MHz < f < 10 MHz	dB / 100 m	20+5 * log(f)	IEC 61156-1
10 MHz < f < 100 MHz		25	
20 MHz < f < 20 MHz		25 -7 * log(f/20)	
Group delay			
1 MHz < f < 100 MHz	ns / 100 m	534+36√f	IEC 61156-1
Delay skew			
1 MHz < f < 100 MHz	ns / 100 m	45	IEC 61156-1
Individual PSNEXT			
1 MHz	dB	62	IEC 61156-1
10 MHz		47	
20 MHz		43	
31,25 MHz		40	
62,5 MHz		35	
100 MHz		32	
Individual PSELFEXT			

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1 MHz	dB / 100 m	61	IEC 61156-1
10 MHz		41	
20 MHz		35	
31,25 MHz		31	
62,5 MHz		25	
100 MHz		21	

Selling delivery information

Product specification: ET-3019-3

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A-02YSOF(L)2Y

Plastic insulated local cables

Description

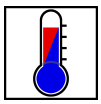
Application
VF transmission, digital systems -Local networks, public, private and industrial

Installation
Direct burial - In ducts

Design
Star quads stranded in subunits - Core interstices filled with low permittivity mass - Wrapping of cable core - Screen of plastic coated aluminium tape, longitudinally applied.

Standards

National DIN VDE 0816;
DIN VDE 0816



Operating temp. range
-20 .. 50 °C

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A-02YSOF(L)2Y

Characteristics

Construction characteristics	
Conductor material	Copper
Conductor shape	Round, massive
Material of filler / inner sheath	Low permittivity mass
Insulation	Foam-skin polyethylene
Screen	Plastic coated aluminium tape
Outer sheath	PE
Electrical characteristics	
Ohmical resistance of the insulation	1500 MOhm.km
Test voltage AC at 50hz conductor /conductor	500 V
Test voltage AC at 50hz conductor/sheath	2000 V
Maximum operating voltage	225 V
Usage characteristics	
Operating temperature, range	-20 .. 50 °C

Product List

=Make to order, =Make to stock

Nexans ref.	Name	Conductor diam. (mm)	Number of pairs
	A-02YSOF(L)2Y 10 x 0,6	0.6	10
	A-02YSOF(L)2Y 10 x 0,8	0.8	10
	A-02YSOF(L)2Y 10 x 2 x 0,4	0.4	10
	A-02YSOF(L)2Y 100 x 0,4	0.4	100
	A-02YSOF(L)2Y 100 x 0,6	0.6	100
	A-02YSOF(L)2Y 100 x 0,8	0.8	100
	A-02YSOF(L)2Y 150 x 0,4	0.4	150
	A-02YSOF(L)2Y 150 x 0,6	0.6	150
	A-02YSOF(L)2Y 150 x 0,8	0.8	150
	A-02YSOF(L)2Y 20 x 0,4	0.4	20
	A-02YSOF(L)2Y 20 x 0,6	0.6	20
	A-02YSOF(L)2Y 20 x 0,8	0.8	20
	A-02YSOF(L)2Y 200 x 0,4	0.4	200
	A-02YSOF(L)2Y 200 x 0,6	0.6	200
	A-02YSOF(L)2Y 200 x 0,8	0.8	200
	A-02YSOF(L)2Y 30 x 0,4	0.4	30
	A-02YSOF(L)2Y 30 x 0,6	0.6	30
	A-02YSOF(L)2Y 30 x 0,8	0.8	30
	A-02YSOF(L)2Y 40 x 0,4	0.4	40
	A-02YSOF(L)2Y 40 x 0,6	0.6	40
	A-02YSOF(L)2Y 40 x 0,8	0.8	40
	A-02YSOF(L)2Y 50 x 0,4	0.4	50
	A-02YSOF(L)2Y 50 x 0,6	0.6	50
	A-02YSOF(L)2Y 6 x 0,4	0.4	6
	A-02YSOF(L)2Y 6 x 0,6	0.6	6
	A-02YSOF(L)2Y 6 x 0,8	0.8	6
	A-02YSOF(L)2Y 70 x 0,4	0.4	70
	A-02YSOF(L)2Y 70 x 0,6	0.6	70
	A-02YSOF(L)2Y 70 x 0,8	0.8	70
	A-02YSOF(L)2Y50 x 0,8	0.8	50

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Selling delivery information

Other dimensions available upon request.

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A-2Y(L)2Y

Plastic insulated local cables

Description

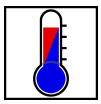
Application
VF transmission, digital systems -Local networks, public, private and industrial

Installation
Direct burial - In ducts

Design
Star quads stranded in subunits - Wrapping of cable core - Screen of plastic coated aluminium tape, longitudinally applied.

Standards

National DIN VDE 0816;
DIN VDE 0816



Operating temp. range
-20 .. 50 °C

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A-2Y(L)2Y

Characteristics

Construction characteristics	
Conductor material	Copper
Conductor shape	Round, massive
Insulation	PE
Material of filler / inner sheath	Without
Screen	Plastic coated aluminium tape
Outer sheath	PE
Electrical characteristics	
Ohmical resistance of the insulation	5000 MOhm.km
Test voltage AC at 50hz conductor /conductor	500 V
Test voltage AC at 50hz conductor/sheath	2000 V
Maximum operating voltage	225 V
Usage characteristics	
Operating temperature, range	-20 .. 50 °C

Selling delivery information

Other dimensions available upon request.

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A-2YF(L)2Y Star Quads

Plastic insulated local cables

Description

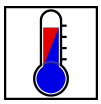
Application
VF transmission, digital systems -Local networks, public, private and industrial

Installation
Direct burial - In ducts

Design
Star quads stranded in subunits - Wrapping of cable core - Screen of plastic coated aluminium tape, longitudinally applied.

Standards

National DIN VDE 0816;
DIN VDE 0816



Operating temp. range
-20 .. 50 °C

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A-2YF(L)2Y Star Quads

Characteristics

Construction characteristics	
Conductor material	Copper
Conductor shape	Round, massive
Insulation	PE
Material of filler / inner sheath	Petroleum jelly filled
Screen	Plastic coated aluminium tape
Outer sheath	PE
Electrical characteristics	
Ohmical resistance of the insulation	1500 MOhm.km
Test voltage AC at 50hz conductor /conductor	500 V
Test voltage AC at 50hz conductor/sheath	2000 V
Maximum operating voltage	225 V
Usage characteristics	
Operating temperature, range	-20 .. 50 °C

Selling delivery information

Other dimensions available upon request.

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External provisioning I.C.T.

DISPERSION NETWORK

Description

Aplication

Dispersion network. External use for private telephonic networks.

Characteristics

Construction characteristics	
Lay Up	Pairs
Insulation	PE
Conductor material	Annealed copper
Inner sheath	PVC
Electrical characteristics	
Max. DC-resistance of the conductor at 20° C	65 Ohm/km

Product List

	Nexans ref.	Name
	10086866	I.C.T. External Provisioning 1x2x0.5
	10086867	I.C.T. External Provisioning 2x2x0.5

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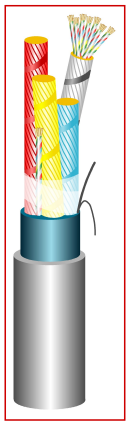
CUBIERTA EAP

Description



Application

Cable for network instalations of external distribution according to the real ordinance 279/1999 that regulates the common infrastructures of telecommunications for the access to the telecommunication services inside the buildings.

Marking

NEXANS - "Fabrication Year" - Mts.

Standards

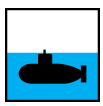
International IEC 60708

Mechanical resistance to impacts
Good

Weather resistance
Good

Maximum operating temperature
70 °C

Electro magnetic interference resistance
Yes



Water proof
Temporary

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I.C.T. External Distribution

Characteristics

Construction characteristics	
Outer sheath	PE
Screen	Aluminium copolymer
Sheath colour	Black
Insulation	Solid polyethylene
Conductor material	Electrolytic copper
Dimensional characteristics	
Number of pairs	25
Conductor diameter	5.0 mm
Electrical characteristics	
Mutual capacitance, range	52.0 .. 3.0 nF/km
Max. DC-resistance of the conductor at 20° C	91 Ohm/km
Minimum insulation resistance	20000 MOhm.km
Mechanical characteristics	
Mechanical resistance to impacts	Good
Usage characteristics	
Minimum operating temperature	-20 °C
Weather resistance	Good
Maximum operating temperature	70 °C
Electro magnetic interference resistance	Yes
Water proof	Temporary

Product List

	Nexans ref.	Name
	10072571 New	I.C.T. External Distribution 101x2x0.51
	10072572 New	I.C.T. External Distribution 26x2x0.51
	10072573 New	I.C.T. External Distribution 51x2x0.51

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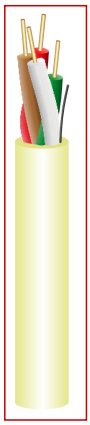
DISPERSION NETWORK

Description



Aplication

Dispersion network. Internal use for private telephonic networks**.**

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Internal provisioning I.C.T.

Characteristics

Construction characteristics	
Outer sheath	PVC
Insulation	PE
Conductor material	Annealed copper
Electrical characteristics	
Mutual capacity at 800 Hz, nominal	52 nF/km
Max. DC-resistance of the conductor at 20° C	93 Ohm/km

Product List

	Nexans ref.	Name
	10072574	I.C.T. Internal Provisioning 1x2x0.5
	10072575	I.C.T. Internal Provisioning 2x2x0.5

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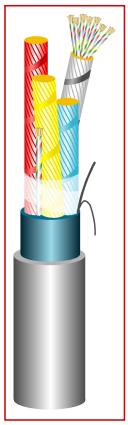
Internal Distribution I.C.T. Cable

CUBIERTA PVC

Description



Application

Cable for network instalations of internal distribution according to the real ordinance 279/1999 that regulates the common infrastructures of telecommunications for the access to the telecommunication services inside the buildings.

Marking

NEXANS - "Fabrication Year" - Mts.

Standards

International EN 50288-4-1;
IEC 60189-1

Operating temp. range
-20 .. 70 °C

Electro magnetic interference resistance
Yes

Flame retardant
IEC 60332-1

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Internal Distribution I.C.T. Cable

Characteristics

Construction characteristics	
Covering	PVC
Lay Up	Pairs
Sheath colour	Grey
Insulation	PVC
Screen	Plastic tape
Conductor material	Electrolytic copper
Electrical characteristics	
Minimum insulation resistance	1000 MOhm.km
Max. DC-resistance of the conductor at 20° C	98 Ohm/km
Usage characteristics	
Operating temperature, range	-20 .. 70 °C
Electro magnetic interference resistance	Yes
Flame retardant	IEC 60332-1

Product List

	Nexans ref.	Name
	10072567 New	I.C.T. Internal Distribution 101x2x0.51
	10072568 New	I.C.T. Internal Distribution 26x2x0.51
	10072569 New	I.C.T. Internal Distribution 51x2x0.51
	10072570 New	I.C.T. Internal Distribution 76x2x0.51

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Aerial

Aerial

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Copper Plus metallic self-supporting drop cables

Description

Applications

Cables for high-bit rate and data applications, up to 100 MHz. The product range goes from 1 to 4 pairs

Instalation

Self-supported drop outdoor plant cables for the access networks.

Construction

1. Conductor:
   - Electrolytic copper, 0,6 mm nominal diameter
2. Insulation:
   - Solid polyethylene
3. Pairing:
   - Short pitch pairs.
5. Core wrapping:
   - Non-hygroscopic polyester tape with overlapping
7. Sheathing:
   - PVC (black colour)
9. External marking:
   - User defined, including meter count

Standards

International IEC 61156-1

Bending factor when installed
10 (xD)

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Copper Plus metallic self-supporting drop cables

Characteristics

Construction characteristics	
Outer sheath	PVC
Sheath colour	Black
Insulation	Solid polyethylene
Conductor material	Electrolytic copper
Dimensional characteristics	
Conductor diameter	0.6 mm
Electrical characteristics	
Capacitance unbalance pair to pair	45 pF/500m
Capacitance unbalance pair to ground	500 pF/500m
Impedance 1-100 MHz	100 Ohm
Resistance unbalance DC max % of loop resistance	2 %
Dielectric strength core to core DC, min.	5.0 kV
Transmission characteristics	
Attenuation, max. 1 MHz	1.7 dB/100m
Attenuation, max. 10 MHz	5.4 dB/100m
Attenuation, max. 20 MHz	7.7 dB/100m
Attenuation, max. 31.25 MHz	9.6 dB/100m
Attenuation, max. 62.5 MHz	14 dB/100m
Attenuation, max. 100 MHz	18.10 dB/100m
Mechanical characteristics	
Minimum breaking load	2 kN
Usage characteristics	
Bending factor when installed	10 (xD)

Transmission features

Parameter	Unit	Value	Standard
Return loss			
1 MHz < f < 10 MHz	dB / 100 m	20 + 5*log(f)	IEC 61156-1
10 MHz < f < 20 MHz		25	
20 MHz < f < 100MHz		25 - *log(f/20)	
Group delay			
1 MHz < f < 100 MHz	ns / 100 m	534 + 36 / Vf	IEC 61156-1
Delay skew			
1 MHz < f < 100 MHz	ns / 100 m	45	IEC 61156-1
Individual PSNEXT			
1 MHz	dB	62	IEC 61156-1
10 MHz		47	
20 MHz		43	
31.25 MHz		40	
62.5 MHz		35	
100 MHz		32	
Individual PSELFEXT			

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Copper Plus metallic self-supporting drop cables

1 MHz	dB / 100 m	61	IEC 61156-1
10 MHz		41	
20 MHz		35	
31.25 MHz		31	
62.5 MHz		25	
100 MHZ		21	

Dimensional features

Number of pairs	External dimensions	Approx. weight [kg/km]
1	4.0 x 8.0 mm	55
2	6.0 x 10.0 mm	65
3	7.0 x 11.0 mm	75
4	7.5 x 11.5 mm	85

Selling delivery information

Product specification: ET-3181-3

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Premium self-supporting drop copper cable

Description

Applications

Cables for high-bit rate and data applications, up to 30 MHz.

Instalation

Self-supported drop outdoor plant cables for the access networks.

Construction

1. Conductor:
   - Electrolytic copper, 0,51 mm nominal diameter
2. Insulation:
   - Solid polyethylene
3. Pairing:
   - Short pitch pairs.
4. Core wrapping:
   - Non-hygroscopic polyester tape with overlapping
5. Ground wire
   - Tinned copper, 0,51 mm nominal diameter.
6. Sheathing:
   - LAP-8 (laminated copolymer-aluminium tapa and PE)
7. External marking:
   - User defined, including meter count

Standards

International IEC 61156-1

Bending factor when installed
10 (xD)

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Premium self-supporting drop copper cable

Characteristics

Construction characteristics	
Outer sheath	LAP fig.8
Drain wire	Tinned copper 0.5 mm diameter
Sheath colour	Black
Insulation	Solid polyethylene
Conductor material	Electrolytic copper
Dimensional characteristics	
Number of pairs	2
Conductor diameter	0.5 mm
Electrical characteristics	
Characteristic impedance, 1 MHz < f < 30 MHz	100 Ohm
Capacitance unbalance pair to ground	500 pF/500m
Resistance unbalance DC max % of loop resistance	2 %
Capacitance unbalance pair to pair	45 pF/500m
Dielectric strength core to core DC, min.	0.5 kV
Characteristic impedance, 0.3 MHz < f < 1 MHz	100 Ohm
Transmission characteristics	
Attenuation, max. 300 kHz	1.2 dB/100m
Attenuation, max. 10 MHz	6.5 dB/100m
Attenuation, max. 1 MHz	2.0 dB/100m
Attenuation, max. 30 MHz	11.5 dB/100m
Usage characteristics	
Bending factor when installed	10 (xD)

Transmission features

Parameter	Unit	Value	Standard
Return loss			
0.3 MHz < f < 20 MHz	dB / 100 m	23	IEC 61156-1
20 MHz < f < 30 MHz		23 -10 * log(f/20)	
Group delay			
0.3 MHz < f < 30 MHz	ns / 100 m	570	IEC 61156-1
Delay skew			
0.3 MHz < f < 30 MHz	ns / 100 m	45	IEC 61156-1
Individual PSNEXT			
0.3 MHz	dB	62	IEC 61156-1
1 MHz		54	
10 MHz		39	
20 MHz		34	
30 MHz		32	
Individual PSELFEXT			
0.3 MHz	dB / 100 m	63	IEC 61156-1
1 MHz		53	
10 MHz		33	
20 MHz		27	
30 MHz		23	

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Premium self-supporting drop copper cable

Dimensional features

Number of pairs	External dimensions	Approx. weight [kg/km]
2	6.0 x 10.0 mm	65

Selling delivery information

Product specification: ET-3173-1

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Coaxial cables

High frequency purpose, low losses coaxial cables. Foamed polyethylen dielectric.

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CATV cables

Coaxial cables for CATV networks. Conductor out of solid copper, copper-plated aluminium or copper-plated-steel.

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Radiating coax. cables

The transmission of **radio communication** signals carried through **coaxial cables** in places where the accessibility of radio communication signals with traditional antennas is difficult. They are made of a central driver inside, a PE foam dielectric, an outer conductor and an outer against glued the driver outside.

The report in diameter between the driver outside and inside the driver set the impedance of the cable.

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Microwave cables

Microwave cables

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Fibre optical cables

A fibre optic cable allows an optimized transmission of a large amount of information (Voice, Data, Images) on long distance.
Cable structures differ depending on fibre count, installation environments (indoor, outdoor, rodent protection, fire performances...) and installation modes (pulling, blowing)

Main cable families are cords, distribution cables, loose tube cables (unitube or multitube design) and micro-cables.

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Micro blown cables

This product range covers the compact cables that are installed with compressed air inside microducts. Nexans – Opticable offer a wide range of micro cables from 2.4 mm (with a maximum of 4 fibres) to 6.4 mm (up to 96 fibres). These cables offer an excellent blown ability that has been appreciated by many European Telecom operators.

These cables are adapted to the different FTTX approaches (Access networks, Fibre To The Street cabinet, Fibre To The Curb, Fibre To The Home, xDSL, Private networks, LAN, MAN…).

NB: The former 96 core with an outer diameter 7.2 mm(SP0977) is replaced by a new cable (SP1351) with an outer diameter 6.4 mm (enabling to blow a 96 core in a 8/10 mm microduct).

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B-Lite Green MB SP1351 (Microcable up to 96 fibres)

Microduct cable (up to 96 fibres) with 8 microbundles

Description

Characteristics & Applications

- Suitable to be blown in microducts (type 8/10 mm)
- Very Low friction outer jacket (B-Lite Green Quality => Excellent Blowing Ability)
- Light weight
- Small diameter
- Waterproof
- All dielectric design
- Easy fibre management
- Very flexible and easy to strip microbundles
- High fibre density (up to 96 fibres)

This cable is designed to be blown in very small ducts (or subducts). It can be used for Access, backbone, City Network and FTTx applications.

Installation

- Set cutter blade at 0.6 mm
- Remove the outer sheath
- Cut the aramid yarns and the central strength member

Construction

1. Up to 8 jelly filled microbundles containing 12 coloured fibres
2. Central FRP strength member
3. Aramid yarns reinforcement
4. Very Low friction outer sheath

Standards

International EN 187000; IEC 60794

Admissible traction load max.	Ambient installation T°C range	Operating temp. range	Storage temperature, range	operation bending rad.	static bending rad.
100 daN	0 .. 40 °C	-30 .. 60 °C	-40 .. 70 °C	170 mm	120 mm

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B-Lite Green MB SP1351 (Microcable up to 96 fibres)

Characteristics

Construction characteristics	
Armour type	Aramid yarn
Dimensional characteristics	
Number of tubes	8
Approximate weight	45 kg/km
Nominal outer diameter	6.4 mm
Mechanical characteristics	
Maximum admissible traction load	100 daN
Maximum tensile load during service	25.0 daN
Crush resistance (IEC 60794-1-E3)	100 N/cm
Usage characteristics	
Installation type	Outdoor - Microduct blowable
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-30 .. 60 °C
Storage temperature, range	-40 .. 70 °C
Laying operation bending radius	170 mm
Minimum static operating bending radius	120 mm

EIA Fiber Colour Table

This document describes the color of the different fibers

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Selling delivery information

Standard Marking

Nexans - B-Lite Green MB - SP1351 - FIBRE OPTIC CABLE - XX*YY - FB - TN - metric

XX = Fibre Count
YY = Fibre Type : SM G652 or G652D, SM G655
FB = Produced in Frameries, Belgium
TN = Traceability Number

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B-Lite Green MB SP1100 (Microcable up to 72 fibres)

Microduct cable (up to 72 fibres) with 6 microbundles

Description

Characteristics & Applications

- Suitable to be blown in microducts (type 8/10 mm)
- Very Low friction outer jacket (B-Lite Green Quality => Excellent Blowing Ability)
- Light weight
- Small diameter
- Waterproof
- All dielectric design
- Easy fibre management
- Very flexible and easy to strip microbundles
- High fibre density (up to 72 fibres)

This cable is designed to be blown in very small ducts (or subducts). It can be used for Access, backbone, City Network and FTTx applications.

Installation

- Set cutter blade at 0.60 mm
- Remove the outer sheath
- Cut the aramid yarns and the central strength member

Construction

1. Up to 6 jelly filled microbundles containing 12 coloured fibres
2. Central FRP strength member
3. Aramid yarns reinforcement
4. Very Low friction outer sheath

Standards

International EN 187000; IEC 60794

Admissible traction load max.	Ambient installation T°C range	Operating temp. range	Storage temperature, range	operation bending rad.	static bending rad.
70 daN	0 .. 40 °C	-30 .. 60 °C	-40 .. 70 °C	105 mm	70 mm

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B-Lite Green MB SP1100 (Microcable up to 72 fibres)

Characteristics

Construction characteristics	
Armour type	Aramid yarn
Dimensional characteristics	
Number of tubes	6
Nominal outer diameter	5.4 mm
Approximate weight	24 kg/km
Mechanical characteristics	
Maximum admissible traction load	70 daN
Maximum tensile load during service	25.0 daN
Crush resistance (IEC 60794-1-E3)	100 N/cm
Usage characteristics	
Installation type	Outdoor - Microduct blowable
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-30 .. 60 °C
Storage temperature, range	-40 .. 70 °C
Laying operation bending radius	105 mm
Minimum static operating bending radius	70 mm

EIA Fiber Colour Table

This document describes the color of the different fibers

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Selling delivery information

Standard Marking

Nexans - B-Lite Green MB - SP1100 - FIBRE OPTIC CABLE - XX*YY - FB - TN - metric

XX = Fibre Count
YY = Fibre Type : SM G652 or G652D, SM G655
FB = Produced in Frameries, Belgium
TN = Traceability Number

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B-Lite Green UB SP1101 (Microcable including 24 fibres)

Microduct Unitube Cable (up to 24 fibres) with 3 microbundles

Description

Characteristics & Applications

- Suitable to be blown in microducts (type 5.5/7 mm)
- Light weight
- Small diameter
- Waterproof
- All dielectric design
- Very Low friction outer jacket (B-Lite Green Quality => Excellent Blowing Ability)
- Fibre count: 24 fibres (3 x 8)

This cable is designed to be blown in very small ducts (or subducts). It can be used for Access, backbone, City Network and FTTx applications.

Installation

- Set cutter blade at 0.4 mm
- Cut the outer jacket and remove it
- Cut carrefully the tube and remove it

Construction

1. Central tube jelly filled containing 3 jelly filled microbundles each containing 8 coloured fibres
2. Very Low friction outer sheath

Standards

International EN 187000; IEC 60794

Admissible traction load max.	Ambient installation T°C range	Operating temp. range	Storage temperature, range	operation bending rad.	static bending rad.
15 daN	0 .. 40 °C	-20 .. 60 °C	-30 .. 60 °C	130 mm	100 mm

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B-Lite Green UB SP1101 (Microcable including 24 fibres)

Characteristics

Dimensional characteristics	
Number of optical fibres	24
Nominal outer diameter	4.0 mm
Approximate weight	13 kg/km
Mechanical characteristics	
Maximum admissible traction load	15 daN
Maximum tensile load during service	10.0 daN
Crush resistance (IEC 60794-1-E3)	200 N/cm
Usage characteristics	
Installation type	Outdoor - Microduct blowable
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-20 .. 60 °C
Storage temperature, range	-30 .. 60 °C
Laying operation bending radius	130 mm
Minimum static operating bending radius	100 mm

EIA Fiber Colour Table

This document describes the color of the different fibers

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Selling delivery information

Standard Marking

Nexans - B-Lite Green UB - SP1101 - FIBRE OPTIC CABLE - 24*YY - FB - TN - metric

YY = Fibre Type : SM G652 or G652D, SM G655
FB = Produced in Frameries, Belgium
TN = Traceability Number

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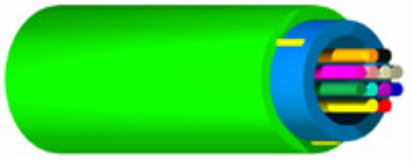
B-Lite Green UT SP1089 (Microcable up to 12 fibres)

Microduct Unitube Cable (up to 12 fibres)

Description



Characteristics & Applications

- Suitable to be blown in microducts (type 5.5/7 mm)
- Light weight
- Small diameter
- Waterproof
- All dielectric design
- Very Low friction outer jacket (B-Lite Green Quality => Excellent Blowing Ability)
- Fibre count (up to 12 fibres)

This cable is designed to be blown in very small ducts (or subducts). It can be used for Access, backbone, City Network and FTTx applications.

Installation

- Set cutter blade at 0.45 mm
- Cut the outer jacket at 10 cm of the end and remove it to access to the aramid yarns
- Using an aramid yarns as a ripcord, cut the outer sheath and remove it
- Cut the aramid yarns

Construction

1. Central jelly filled tube containing up to 12 coloured fibres
2. Aramid yarns reinforcement
3. Very Low friction outer sheath

Standards

International EN 187000; IEC 60794

Admissible traction load max.	Ambient installation T°C range	Operating temp. range	Storage temperature, range	operation bending rad.	static bending rad.
15 daN	0 .. 40 °C	-30 .. 60 °C	-40 .. 60 °C	130 mm	100 mm

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B-Lite Green UT SP1089 (Microcable up to 12 fibres)

Characteristics

Construction characteristics	
Armour type	Aramid yarn
Dimensional characteristics	
Number of tubes	1
Nominal outer diameter	3.9 mm
Approximate weight	12 kg/km
Mechanical characteristics	
Maximum admissible traction load	15 daN
Maximum tensile load during service	10.0 daN
Crush resistance (IEC 60794-1-E3)	200 N/cm
Usage characteristics	
Installation type	Outdoor - Microduct blowable
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-30 .. 60 °C
Storage temperature, range	-40 .. 60 °C
Laying operation bending radius	130 mm
Minimum static operating bending radius	100 mm

EIA Fiber Colour Table

This document describes the color of the different fibers

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Product List

	Nexans ref.	Name	Nb optical fibres	Fiber optic type
☎	10101729	B-Lite Green UT SP1089 - 12xSM G652	12	SM (G.652)

☎ = Make to order, 🏭 = Make to stock

Selling delivery information

Standard Marking

Nexans - B-Lite Green UT - SP1089 - FIBRE OPTIC CABLE - XX*YY - FB - TN - metric

XX = Fibre Count
YY = Fibre Type : SM G652 or G652D, SM G655
FB = Produced in Frameries, Belgium
TN = Traceability Number

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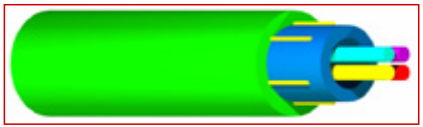
B-Lite Green UT SP1134 (Microcable 2 or 4 fibres)

Microduct Unitube Cable (up to 4 fibres)

Description



Characteristics & Applications

- Suitable to be blown in microducts (type 3.5/5 mm)
- Light weight
- Small diameter
- Waterproof
- All dielectric design
- Very Low friction outer jacket (B-Lite Green Quality => Excellent Blowing Ability)
- Fibre count (up to 4 fibres)

This cable is designed to be blown in very small ducts (or subducts). It can be used for Access, backbone, City Network and FTTx applications.

Installation

- Set cutter blade at 0.4 mm
- Cut the outer jacket at 10 cm of the end and remove it to access to the aramid yarns
- Using an aramid yarns as a ripcord, cut the outer sheath and remove it
- Cut the aramid yarns

Construction

1. Central jelly filled tube containing up to 4 coloured fibres
2. Aramid yarns reinforcement
3. Very Low friction outer sheath

Standards

International EN 187000; IEC 60794

Admissible traction load max.	Ambient installation T°C range	Operating temp. range	Storage temperature, range	operation bending rad.	static bending rad.
12 daN	0 .. 40 °C	-20 .. 60 °C	-30 .. 60 °C	75 mm	50 mm

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B-Lite Green UT SP1134 (Microcable 2 or 4 fibres)

Characteristics

Construction characteristics	
Armour type	Aramid yarn
Dimensional characteristics	
Number of tubes	1
Nominal outer diameter	2.4 mm
Approximate weight	5 kg/km
Mechanical characteristics	
Maximum admissible traction load	12 daN
Maximum tensile load during service	4.0 daN
Crush resistance (IEC 60794-1-E3)	200 N/cm
Usage characteristics	
Installation type	Outdoor - Microduct blowable
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-20 .. 60 °C
Storage temperature, range	-30 .. 60 °C
Laying operation bending radius	75 mm
Minimum static operating bending radius	50 mm

EIA Fiber Colour Table

This document describes the color of the different fibers

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Selling delivery information

Standard Marking

Nexans - B-Lite Green UT - SP1134 - FIBRE OPTIC CABLE - XX*YY - FB - TN - metric

XX = Fibre Count
YY = Fibre Type : SM G652 or G652D, SM G655
FB = Produced in Frameries, Belgium
TN = Traceability Number

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Optical Underground Cable (OUC)

Nexans offer a variety of cables that can be installed either in ducts or directly buried in the ground. These cables can have different armouring depending on your application (Metallic or dielectric design).

The Optical fibers "Loose " type cables have Non-metallic traction armouring for loads starting with 150 up to 1200 daN.
Two main standard structures are available; unitubes (up to 24 fibres) and multitubes (up to 72 fibres).

The datasheets presented in this segment are just a short overview of the large Nexans range (More than 1000 cable designs with fibre count up to 432 fibres).

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GASLDV - Outdoor Ribbon in slotted core

Type GASLDV is a ribbon slotted core fibre optical cable. The cable type is intended for use in regional, urban and area networks.

Description

The cable type is longitudinally water-blocked and intended for outdoor use (in ducts). The design can incorporate up to 480 fibres. The fibres are grouped into ribbons consisting each of four fibres (maximum 96 fibres) or 8 fibres (maximum 480 fibres). The 4- or 8-fibre ribbons are stacked in a slotted core profile of polyethylene, which is extruded onto a dielectric fibre reinforced strength member (FRP). The cable type is longitudinal water-blocked through use of polymeric filling compound. GASLDV is sheathed with halogen-free black LLDPE.

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Standards

International IEC 60793; IEC 60794; ITU-T Rec. G.650; ITU-T Rec. G.652

Halogen free	Operating temp. range	Ambient installation T°C range	Storage temperature, range	Flame retardant
Yes	-30 .. 60 °C	-15 .. 50 °C	-40 .. 70 °C	No

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GASLDV - Outdoor Ribbon in slotted core

Characteristics

Construction characteristics	
Construction type	Slotted core
Sheath colour	Black
Halogen free	Yes
Metal free	Yes
Strength member	FRP
Dimensional characteristics	
Number of optical fibres, range	4 .. 480
Usage characteristics	
Operating temperature, range	-30 .. 60 °C
Ambient installation temperature, range	-15 .. 50 °C
Storage temperature, range	-40 .. 70 °C
Flame retardant	No
Installation type	Outdoor - Duct

Product List

=Make to order, =Make to stock

Nexans ref.	Country ref.	Name	Fiber optic type	Type of secondary protection	Outer sheath	Material used for length water tightness
29316598	4970387	GASLDV 384SM G652D	SM (G.652D)	8-fibre ribbon	LLDPE	Jelly
29310698	4970307	GASLDV 4SM G652D	SM (G.652D)	4-fibre ribbon	LLDPE	Jelly
29311098	4970317	GASLDV 8SM G652D	SM (G.652D)	4-fibre ribbon	LLDPE	Jelly
29311498	4970327	GASLDV 12SM G652D	SM (G.652D)	4-fibre ribbon	LLDPE	Jelly
29312698	4970337	GASLDV 24SM G652D	SM (G.652D)	4-fibre ribbon	LLDPE	Jelly
29315198	4970357	GASLDV 48SM G652D	SM (G.652D)	4-fibre ribbon	LLDPE	Jelly
29319698	4970367	GASLDV 96SM G652D	SM (G.652D)	4-fibre ribbon	LLDPE	Jelly
29319398	4970377	GASLDV 192SM G652D	SM (G.652D)	8-fibre ribbon	LLDPE	Jelly

= Make to order, = Make to stock

Selling delivery information

The outer sheath of the cable is marked with cable type, manufacturer, identification number and meter marking.
The cable is delivered on wooden recyclable drums in lengths according to arrangement. The drum is marked with the cable type, length, rolling direction and installation information. Cable ends closed with end cap.

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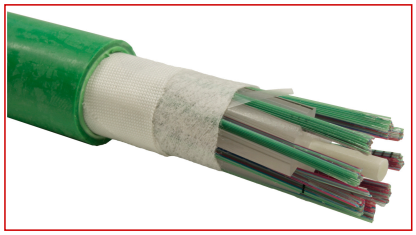
GASQBDUV - Indoor/Outdoor Ribbon in slotted core

Type GASQBDUV is a ribbon slotted core fibre optical cable. The cable type is intended for use in urban, area and property area networks. The cable type is also used a approach cable in factory assembled Optical Distribution Field (ODF) subracks.

Description

The cable type is intended for combined indoor as well as outdoor use (in ducts). The design can incorporate up to 480 fibres. The fibres are grouped into ribbons consisting each of four fibres (maximum 96 fibres) or 8 fibres (maximum 480 fibres). The 4- or 8-fibre ribbons are stacked in a slotted core profile of polyethylene, which is extruded onto a dielectric fibre reinforced strength member (FRP). The cable type is longitudinal water-blocked through the use of water-swellable materials and sheathed with halogen-free flame-retardant polymeric compound. The cable type fulfils the fire propagation requirements stated in IEC 60332-3 cat.C.



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Standards

International EN 50173; IEC 60332-3; IEC 60754; IEC 60793; IEC 60794; IEC 61034; ITU-T Rec. G.650; ITU-T Rec. G.652

Halogen free	Operating temp. range	Ambient installation T°C range	Storage temperature, range	Flame retardant
Yes	-30 .. 60 °C	-15 .. 50 °C	-40 .. 70 °C	IEC 60332-3 and IEC 754

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GASQBDUV - Indoor/Outdoor Ribbon in slotted core

Characteristics

Construction characteristics	
Construction type	Slotted core, ribbon
Reinforcement members material type	Fiber glass
Sheath colour	Green
Material used for length water tightness	Swellable tape
Halogen free	Yes
Metal free	Yes
Outer sheath	HFFR (polyolefin)
Dielectric	Yes
Strength member	FRP
Dimensional characteristics	
Number of optical fibres, range	4 .. 480
Usage characteristics	
Installation type	Indoor/Outdoor
Operating temperature, range	-30 .. 60 °C
Ambient installation temperature, range	-15 .. 50 °C
Storage temperature, range	-40 .. 70 °C
Flame retardant	IEC 60332-3 and IEC 754

Product List

=Make to order, =Make to stock

Nexans ref.	Country ref.	Name	Type of secondary protection	Nb optical fibres	Number of slott
29470698	4974507	GASQBDUV 4SM G652D	4-fibre ribbon	4	3
29471098	4974517	GASQBDUV 8SM G652D	4-fibre ribbon	8	3
29471498	4974527	GASQBDUV 12SM G652D	4-fibre ribbon	12	3
29472698	4974537	GASQBDUV 24SM G652D	4-fibre ribbon	24	3
29475098	4974557	GASQBDUV 48SM G652D	4-fibre ribbon	48	6
29479498	4974567	GASQBDUV 96SM G652D	4-fibre ribbon	96	6
29479298	4974577	GASQBDUV 192SM G652D	8-fibre ribbon	192	6

= Make to order, = Make to stock

Selling delivery information

The outer sheath of the cable is marked with cable type, manufacturer, identification number and meter marking.
The cable is delivered on wooden recyclable drums in lengths according to arrangement. The drum is marked with the cable type, length, rolling direction and installation information. Cable ends closed with end cap.

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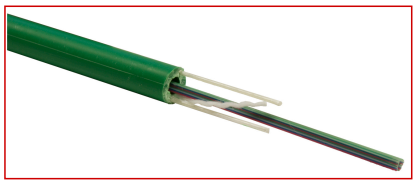
GAGQBDUV - Indoor/outdoor Ribbon in unitube

Type GAGQBDUV is a flexible fibre optical cable with fibre ribbons placed in a central plastic tube. The cable type is intended for use in buildings and property area networks.

Description

The cable type is longitudinally water-blocked and intended for combined indoor as well as outdoor use in ducts. The design can incorporate up to 32 fibres. The fibres are grouped into ribbons consisting each of four or eight fibres. The halogen-free and flame retardant outer sheath incorporates two dielectric fibre reinforced strength members (FRP). The longitudinal water-blocking is achieved through the use of water-swellable materials. The cable type fulfils the fire propagation requirements stated in IEC 60332-3 cat.C.



Standards

International IEC 60332-3; IEC 60754-2; IEC 60793; IEC 60794; IEC 61034; ITU-T Rec. G.650; ITU-T Rec. G.652

Halogen free	Operating temp. range	Ambient installation T°C range	Storage temperature, range	Flame retardant	Smoke density
Yes	-30 .. 60 °C	-15 .. 50 °C	-40 .. 70 °C	IEC 60332 Part 3 Cat. C	Low

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GAGQBDUV - Indoor/outdoor Ribbon in unitube

Characteristics

Construction characteristics	
Construction type	Unitube
Reinforcement members material type	Fiber glass
Outer sheath	HFFR (polyolefin)
Sheath colour	Green
Material used for length water tightness	Swellable yarn
Halogen free	Yes
Metal free	Yes
Usage characteristics	
Installation type	Indoor/Outdoor
Operating temperature, range	-30 .. 60 °C
Ambient installation temperature, range	-15 .. 50 °C
Storage temperature, range	-40 .. 70 °C
Flame retardant	IEC 60332 Part 3 Cat. C
Smoke density	Low

Product List

=Make to order, =Make to stock

Nexans ref.	Country ref.	Name	Fiber optic type	Type of secondary protection	Nb optical fibres	Nom. outer diam. (mm)
29041798	4970907	GAGQBDUV 4SM G652D	SM (G.652D)	4-fibre ribbon	4	5.5
29041898	4970917	GAGQBDUV 8SM G652D	SM (G.652D)	4-fibre ribbon	8	7.0
29050098	4966147	GAGQBDUV 8SM G652D	SM (G.652D)	8-fibre ribbon	8	8.0
29041998	4970927	GAGQBDUV 12SM G652D	SM (G.652D)	4-fibre ribbon	12	7.0
29050198	4966157	GAGQBDUV 16SM G652D	SM (G.652D)	8-fibre ribbon	16	8.0
29047098	4966167	GAGQBDUV 24SM G652D	SM (G.652D)	8-fibre ribbon	24	8.0
29048398	4966177	GAGQBDUV 32SM G652D	SM (G.652D)	8-fibre ribbon	32	8.0

= Make to order, = Make to stock

Selling delivery information

The outer sheath of the cable is marked with cable type, manufacturer, identification number and meter marking.
The cable is delivered on wooden recyclable drums in lengths according to arrangement. The drum is marked with the cable type, length, rolling direction and installation information. Cable ends closed with end cap.

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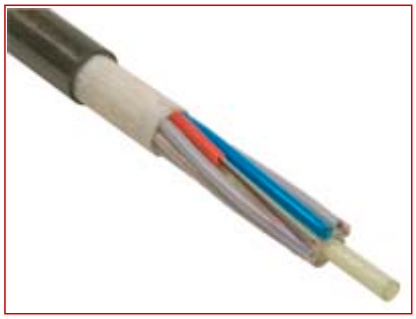
GRHLDV - Loose tube 2,25

Type GRHLDV is a loose tube fibre optical cable. The cable type is intended for use in regional, urban, and area property networks.

Description

The cable type is longitudinally water-blocked and intended for outdoor use (in ducts). The design can incorporate 12 to 288 fibres in loose tubes with a diameter of 2.25mm. The individually coloured fibres are tubed in groups of maximum 12, and stranded onto a central dielectric fibre reinforced strength member (FRP). The cable type is longitudinal water-blocked through the use of polymeric filling compound and sheathed with halogen-free black polyethylene.



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Standards

International IEC 60793; IEC 60794; ITU-T Rec. G.650; ITU-T Rec. G.652

Halogen free	Operating temp. range	Ambient installation T°C range	Storage temperature, range	Dynamic bending factor	Bending factor when installed
Yes	-40 .. 70 °C	-15 .. 60 °C	-40 .. 70 °C	15 (xD)	10 (xD)

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GRHLDV - Loose tube 2,25

Characteristics

Construction characteristics	
Construction type	Loose tube, SZ
Fiber optic type	SM (G.652D)
Type of secondary protection	Loose tube
Outer sheath	PE LLD
Sheath colour	Black
Halogen free	Yes
Metal free	Yes
Strength member	Central FRP
Dimensional characteristics	
Number of optical fibres, range	12 .. 288
Tube diameter	2.3 mm
Usage characteristics	
Installation type	Outdoor - Duct
Operating temperature, range	-40 .. 70 °C
Ambient installation temperature, range	-15 .. 60 °C
Storage temperature, range	-40 .. 70 °C
Dynamic bending factor	15 (xD)
Bending factor when installed	10 (xD)

Selling delivery information

The outer sheath of the cable is marked with cable type, manufacturer, identification number and meter marking.
The cable is delivered on wooden recyclable drums in lengths according to arrangement. The drum is marked with the cable type, length, rolling direction and installation information. Cable ends closed with end cap.

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GRSLDV - Outdoor Loose tube in slotted core

Type GRSLDV is a loose tube slotted core fibre optical cable. The cable type is intended for use in regional, urban, and area property networks.

Description

The cable type is longitudinally water-blocked and intended for outdoor use (in ducts). The design can incorporate 12 to 96 fibres in loose tubes. The individually coloured fibres are tubed in groups of maximum 12, and placed into in a slotted core profile of polyethylene, which is extruded onto a dielectric fibre reinforced strength member (FRP). The cable type is longitudinal water-blocked through the use of polymeric filling compound and sheathed with halogen-free black polyethylene.

Lifemark™

Standards

International IEC 60793; IEC 60794; ITU-T Rec. G.650; ITU-T Rec. G.652

Halogen free	Operating temp. range	Ambient installation T°C range	Storage temperature, range	Dynamic bending factor
Yes	-30 .. 60 °C	-15 .. 50 °C	-40 .. 70 °C	15 (xD)

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GRSLDV - Outdoor Loose tube in slotted core

Characteristics

Construction characteristics	
Construction type	Slotted core, tube
Type of secondary protection	Loose tube
Outer sheath	PE
Sheath colour	Black
Material used for length water tightness	Jelly
Halogen free	Yes
Metal free	Yes
Length water tightness Tube	Vaseline
Dimensional characteristics	
Number of optical fibres, range	12 .. 96
Usage characteristics	
Installation type	Outdoor - Duct
Operating temperature, range	-30 .. 60 °C
Ambient installation temperature, range	-15 .. 50 °C
Storage temperature, range	-40 .. 70 °C
Dynamic bending factor	15 (xD)

Selling delivery information

The outer sheath of the cable is marked with cable type, manufacturer, identification number and meter marking.
The cable is delivered on wooden recyclable drums in lengths according to arrangement. The drum is marked with the cable type, length, rolling direction and installation information. Cable ends closed with end cap.

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Optical Aerial Cable (OAC)

Nexans offers a wide range of optical cables adapted to different installation, for the infrastructure and the distribution. This cable types are intended for use in regional and urban networks in aerial installations.

Specific development can be made on request.

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GRSSLLDV - Aerial Loose tube in slotted core

Type GRSSLLDV is a loose tube slotted core fibre optical cable. The cable type is intended for use in regional and urban networks for aerial installations.

Description

The cable type is intended for outdoor use in aerial installations. The design can incorporate 12 to 96 fibres in loose tubes. The individually coloured fibres are tubed in groups of maximum 12, and placed into in a slotted core profile of polyethylene, which is extruded onto a dielectric fibre reinforced strength member (FRP). The cable type is longitudinal water-blocked through the use of polymeric filling compound. The cable is sheathed in two layers of halogen-free black polyethylene with a intermediate layer of aramid yarns.

Lifemark™

Standards

International IEC 60793; IEC 60794; ITU-T Rec. G.650; ITU-T Rec. G.652

Halogen free	Operating temp. range	Ambient installation T°C range	Storage temperature, range
Yes	-40 .. 60 °C	-15 .. 50 °C	-40 .. 70 °C

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GRSSLLDV - Aerial Loose tube in slotted core

Characteristics

Construction characteristics	
Construction type	Slotted core
Fiber optic type	SM (G.652D)
Type of secondary protection	Loose tube
Reinforcement members material type	Fiber glass
Inner sheath	Polyethylene
Outer sheath	HDPE
Sheath colour	Black
Halogen free	Yes
Metal free	Yes
Armour type	Aramid yarn
Material used for length water tightness	Swellable yarn
Dimensional characteristics	
Number of optical fibres, range	12 .. 96
Usage characteristics	
Installation type	Aerial - self-supporting
Operating temperature, range	-40 .. 60 °C
Ambient installation temperature, range	-15 .. 50 °C
Storage temperature, range	-40 .. 70 °C

Product List

=Make to order, =Make to stock

Nexans ref.	Country ref.	Name	Nom. outer diam. (mm)	Maximum permanent tensile load (kN)	Nb optical fibres
29251498	4968917	GRSSLLDV 12SM G652D (12 kN)	17.0	12	12
29047398	4973537	GRSSLLDV 12SM G652D (10 kN)	17.0	10	12
29252698	4968927	GRSSLLDV 24SM G652D (12 kN)	17.0	12	24
29047498	4973547	GRSSLLDV 24SM G652D (10 kN)	17.0	10	24
29255098	4968947	GRSSLLDV 48SM G652D (12 kN)	17.0	12	48
29334898	4973567	GRSSLLDV 48SM G652D (10 kN)	17.0	10	48
29034198	4973497	GRSSLLDV 72SM G652D (10 kN)	17.0	10	72
29257498	4968957	GRSSLLDV 72SM G652D (12 kN)	17.0	12	72

= Make to order, = Make to stock

Selling delivery information

The outer sheath of the cable is marked with cable type, manufacturer, identification number and meter marking.
The cable is delivered on wooden recyclable drums in lengths according to arrangement. The drum is marked with the cable type, length, rolling direction and installation information. Cable ends closed with end cap.

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MMK-0625 SP1047 (Dielectric Aerial Cable - max. 72 fibers)

Dielectric Aerial cable (Multitube with Dielectric Armour) SP1047

Description

aeropticable

Characteristics & Applications

- Especially designed for aerial installation
- Also suitable for use in ducts
- All dielectric design
- Waterproof
- Up to 72 fibres

Preparation

- Set cutter blade at 1.50 mm
- Cut and remove the outer sheath for a minimum of 10 cm to access the ripcord
- Remove the outer sheath using ripcord
- Cut the central strength member

Construction

1. Up to 6 gel filled tubes containing up to 12 individually coloured fibres
2. Central FRP strength member
3. Aramid yarns
4. PE outer sheath

Standards

International EN 187000; IEC 60794

Admissible traction load max.	operation bending rad.	static bending rad.	Ambient installation T°C range	Operating temp. range	Storage temperature, range
650 daN	230 mm	170 mm	0 .. 40 °C	-30 .. 70 °C	-40 .. 70 °C

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MMK-0625 SP1047 (Dielectric Aerial Cable - max. 72 fibers)

Characteristics

Construction characteristics	
Type of cable	Loose tube
Armour type	Aramid yarn
Outer sheath	HDPE
Dimensional characteristics	
Number of tubes	6
Nominal outer diameter	11.6 mm
Approximate weight	106 kg/km
Mechanical characteristics	
Crush resistance (IEC 60794-1-E3)	300 N/cm
Maximum tensile load during service	325.0 daN
Maximum admissible traction load	650 daN
Usage characteristics	
Installation type	Aerial Cable
Laying operation bending radius	230 mm
Minimum static operating bending radius	170 mm
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-30 .. 70 °C
Storage temperature, range	-40 .. 70 °C

Selling delivery information

Standard Marking

NEXANS - MMK-0625 - SP1047 - FIBRE OPTIC CABLE - XX*YY - FB - TN - metric

XXX = Fibre Count
YY = Fibre Type : SM G652 / SM G655
FB = Produced in Frameries, Belgium
TN = Traceability Number

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MMK-0625 SP1044 (Dielectric Aerial Cable - max. 36 fibers)

Dielectric Aerial cable (Multitube with Dielectric Armour) SP1044

Description

aeropticable

Characteristics & Applications

- Especially designed for aerial installation
- Also suitable for use in ducts
- All dielectric design
- Waterproof
- Up to 36 fibres

Preparation

- Set cutter blade at 1.50 mm
- Cut and remove the outer sheath for a minimum of 10 cm to access the ripcord
- Remove the outer sheath using ripcord
- Cut the central strength member

Construction

1. Up to 6 gel filled tubes containing up to 6 individually coloured fibres
2. Central FRP strength member
3. Aramid yarns
4. PE outer sheath

Standards

International EN 187000; IEC 60794

Admissible traction load max.	operation bending rad.	static bending rad.	Ambient installation T°C range	Operating temp. range	Storage temperature, range
500 daN	225 mm	165 mm	0 .. 40 °C	-30 .. 70 °C	-40 .. 70 °C

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MMK-0625 SP1044 (Dielectric Aerial Cable - max. 36 fibers)

Characteristics

Construction characteristics	
Type of cable	Loose tube
Armour type	Aramid yarn
Outer sheath	HDPE
Dimensional characteristics	
Number of tubes	6
Nominal outer diameter	11.3 mm
Approximate weight	98 kg/km
Mechanical characteristics	
Crush resistance (IEC 60794-1-E3)	300 N/cm
Maximum tensile load during service	330.0 daN
Maximum admissible traction load	500 daN
Usage characteristics	
Installation type	Aerial Cable
Laying operation bending radius	225 mm
Minimum static operating bending radius	165 mm
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-30 .. 70 °C
Storage temperature, range	-40 .. 70 °C

Selling delivery information

Standard Marking

NEXANS - MMK-0625 - SP1044 - FIBRE OPTIC CABLE - XX*YY - FB - TN - metric

XXX = Fibre Count
YY = Fibre Type : SM G652 / SM G655
FB = Produced in Frameries, Belgium
TN = Traceability Number

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MMK-0625 SP1122 (Dielectric Aerial Cable - max. 36 fibers)

Dielectric Aerial cable (Multitube with Dielectric Armour) SP1122

Description

aeropticable

Characteristics & Applications

- Especially designed for aerial installation
- Also suitable for use in ducts
- All dielectric design
- Waterproof
- Up to 36 fibres

Preparation

- Set cutter blade at 1.50 mm
- Cut and remove the outer sheath for a minimum of 10 cm to access the ripcord
- Remove the outer sheath using ripcord
- Cut the central strength member

Construction

1. Up to 6 gel filled tubes containing up to 6 individually coloured fibres
2. Central FRP strength member
3. Aramid yarns
4. HDPE outer sheath

Standards

International EN 187000; IEC 60794

Admissible traction load max.	operation bending rad.	static bending rad.	Ambient installation T°C range	Operating temp. range	Storage temperature, range
1000 daN	230 mm	170 mm	0 .. 40 °C	-30 .. 70 °C	-40 .. 70 °C

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MMK-0625 SP1122 (Dielectric Aerial Cable - max. 36 fibers)

Characteristics

Construction characteristics	
Type of cable	Loose tube
Armour type	Aramid yarn
Outer sheath	HDPE
Dimensional characteristics	
Number of tubes	6
Nominal outer diameter	11.6 mm
Approximate weight	110 kg/km
Mechanical characteristics	
Crush resistance (IEC 60794-1-E3)	300 N/cm
Maximum tensile load during service	650.0 daN
Maximum admissible traction load	1000 daN
Usage characteristics	
Installation type	Aerial Cable
Laying operation bending radius	230 mm
Minimum static operating bending radius	170 mm
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-30 .. 70 °C
Storage temperature, range	-40 .. 70 °C

Selling delivery information

Standard Marking

NEXANS - MMK-0625 - SP1122 - FIBRE OPTIC CABLE - XX*YY - FB - TN - metric

XXX = Fibre Count
YY = Fibre Type : SM G652 / SM G655
FB = Produced in Frameries, Belgium
TN = Traceability Number

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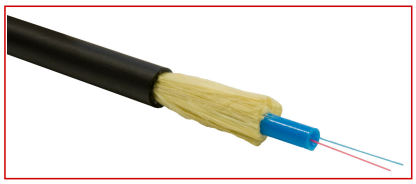
GRGLDV - Aerial unitube

Type GRLGDV is a fibre optical cable with fibres placed in a central polymeric tube. The cable type is intended for use in regional, urban, and area property networks.

Description

The cable type is longitudinally water-blocked and intended for aerial use, span lengths up to 50 meters. The design can incorporate up to 12 fibres in a central tube with water-blocking filling compound. The cable is reinforced with aramid yarn and the cable is sheathed with black halogen-free polyethylene.



Lifemark™

Standards

International IEC 60793; IEC 60794; ITU-T Rec. G.650; ITU-T Rec. G.652

Halogen free	Operating temp. range	Ambient installation T°C range	Storage temperature, range
Yes	-40 .. 70 °C	-10 .. 50 °C	-40 .. 70 °C

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GRGLDV - Aerial unitube

Characteristics

Construction characteristics	
Construction type	Unitube
Type of secondary protection	Loose tube
Outer sheath	PE
Metal free	Yes
Reinforcement members material type	Aramid yarn
Sheath colour	Black
Material used for length water tightness	Swellable yarn
Halogen free	Yes
Dimensional characteristics	
Number of optical fibres, range	1 .. 12
Average sheath thickness	1.0 mm
Nominal outer diameter	6.5 mm
Approximate weight	34 kg/km
Mechanical characteristics	
Maximum permanent tensile load	1 kN
Impact resistance (EN 187 000)	15 J
Usage characteristics	
Installation type	Aerial Cable
Operating temperature, range	-40 .. 70 °C
Ambient installation temperature, range	-10 .. 50 °C
Storage temperature, range	-40 .. 70 °C

Product List

Nexans ref.	Country ref.	Name	Fiber optic type	Maximum pulling force by laying (kN)	Nb optical fibres	Min. dynamic operating bending rad. (mm)
29035398	4966187	GRGLDV 2SM G652D	SM (G.652D)	1.25	2	65.0
29035498	4966197	GRGLDV 4SM G652D	SM (G.652D)	1.25	4	65.0
29035298	4966207	GRGLDV 8SM G652D	SM (G.652D)	1.25	8	65.0
29035598	4966217	GRGLDV 12SM G652D	SM (G.652D)	1.25	12	65.0

= Make to order, = Make to stock

Selling delivery information

The outer sheath of the cable is marked with cable type, manufacturer, identification number and meter marking.
The cable is delivered on wooden recyclable drums in lengths according to arrangement. The drum is marked with the cable type, length, rolling direction and installation information. Cable ends closed with end cap.

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Optical Underwater Cable (OWC)

This cable types are intended for use in regional and urban networks in river and lake installations.

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Submarine FO Cables Type URC-1

Submarine FO Cables for Unrepeatered Links

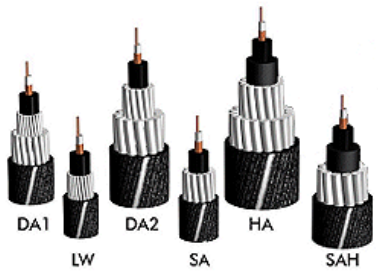
Description

The URC-1 cable family has been designed for non-repeatered systems. The cables are based on a loose tube design, in which the fibres are protected by a laser welded, 3.7 mm OD stainless steel tube. A maximum of 48 fibres can be inserted in each steel tube. For electroding purposes (fault locations by means of sea electrodes) a copper conductor can be fitted over the steel tube. A polyethylene sheath is applied over the steel tube(s) to complete the cable core.

The URC-1 cable family consists of 6 different armour versions, with design loads ranging from 30 kN to 400 kN. All 6 armour designs can be delivered with a 3.7 mm OD central steel tube with a maximum of 48 fibres or with a 5.6 OD central steel tube with a maximum of 96 fibres. Furthermore, the Single Armoured Heavy Cable and the Heavy Armoured Cable can be provided with 4 stranded central tubes with a total of 192 fibres.

A polyethylene sheath is applied over the armouring wires to provide corrosion protection. Two layers of polypropylene yarn, flooded in bitumen can be supplied as an outer serving on special request.

The products below contain fibres of type ITU-T G.652. Other fibre types can be delivered on request.



Standards

International IEC 60794; ITU-T Rec. G.652

Operating temp. range
-10 .. 35 °C

Storage temperature, range
-30 .. 60 °C

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Submarine FO Cables Type URC-1

Characteristics

Construction characteristics	
Fiber optic type	SM (G.652)
Material used for length water tightness	Jelly
Type of secondary protection	Stainless steel tube
Inner sheath	Polyethylene
Armour type	Steel wires
Outer sheath	Polyethylene
Dimensional characteristics	
Number of optical fibres	48
Usage characteristics	
Operating temperature, range	-10 .. 35 °C
Storage temperature, range	-30 .. 60 °C

Product List

=Make to order, =Make to stock

Nexans ref.	Name	Nom. outer diam. (mm)	Approximate weight in seawater (kg/km)	Minimum breaking load (kN)	static bending rad. (mm)
10025346	Double Armoured (DA1)	24.5	1300	200	0.5
10063538	Double Armoured (DA2)	31.0	2300	400	0.75
10063539	Heavy Armoured (HA)	40.0	3700	640	0.75
10063537	Heavy Single Armoured (SAH)	31.0	1700	280	0.75
10063536	Light Weight (LW)	19.0	400	50	0.5
	Single Armoured (SA)	21.5	800	130	0.5

= Make to order, = Make to stock

Selling delivery information

Can be delivered in lengths as agreed.

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QERE R0.9

Multipurpose FO cable QERE R0.9

Description

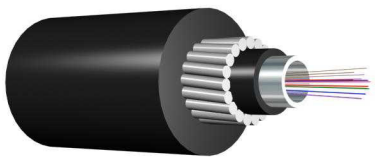
This multipurpose fibre optic cable is suitable for installation in lakes, rivers, seawater and tunnels and can also be used for direct burial on shore.

The cable can contain up to 48 fibres (type G.652D), protected in a single, stainless steel tube. A polyethylene sheath is extruded around the tube to complete the cable core.

A single layer of armouring wires is stranded around the cable core. This is in turn protected by a polyethylene outer sheath.

Several other options are available on request:

- A copper conductor can be applied on the steel tube for electroding purposes (fault location)
- The outer polyethylene sheath can be replaced by polypropylene yarns flooded in bitumen
- Other fibre types and fibre counts can be delivered



Standards

International IEC 60794; ITU-T Rec. G.652

static bending rad.	Operating temp. range	Storage temperature, range	Ambient installation T°C range
150 mm	-40 .. 70 °C	-40 .. 70 °C	-15 .. 60 °C

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QERE R0.9

Characteristics

Construction characteristics	
Fiber optic type	SM (G.652D)
Type of secondary protection	Stainless steel tube
Inner sheath	HDPE
Armour type	Galvanized steel wires
Outer sheath	HDPE
Dimensional characteristics	
Tube diameter	3.7 mm
Nominal outer diameter	11.0 mm
Approximate weight	185 kg/km
Approximate weight in seawater	90 kg/km
Mechanical characteristics	
Maximum tensile load during service	250.0 daN
Maximum pulling force by laying	5 kN
Minimum breaking load	20 kN
Crush resistance (EN 187 000)	5 kN
Impact resistance (EN 187 000)	50 J
Usage characteristics	
Minimum static operating bending radius	150 mm
Operating temperature, range	-40 .. 70 °C
Storage temperature, range	-40 .. 70 °C
Ambient installation temperature, range	-15 .. 60 °C

Colour Coding

FIBRE COLOUR CODE STEEL TUBE CABLES TIA-598-C								
Ring Marking	0/0	1/50	1/25	2/50	2/25	1/100	2/100	3/50
Fibre colour								
Blue	1	13	25	37	49	61	73	85
Orange	2	14	26	38	50	62	74	86
Green	3	15	27	39	51	63	75	87
Brown	4	16	28	40	52	64	76	88
Grey	5	17	29	41	53	65	77	89
White	6	18	30	42	54	66	78	90
Red	7	19	31	43	55	67	79	91
Clear	8	20	32	44	56	68	80	92
Yellow	9	21	33	45	57	69	81	93
Violet	10	22	34	46	58	70	82	94
Pink	11	23	35	47	59	71	83	95
Turquoise	12	24	36	48	60	72	84	96

Selling delivery information

Standard Marking

Cable ID.Production year - G(XX) QERE R0,9 - Nexans Norway - (YYYY) m

XX = Number of fibres
YYYY = Metre marking

Delivery Length

Can be delivered in lengths as agreed.

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River and lake cables (RLC-1)

Fibre optic cables for installation in rivers and lakes

Description

Applications

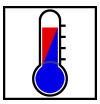
The RLC-1 family consists of 8 cable designs with fiber counts up to 384. All designs can be provided with a wide range of fibre types

Design

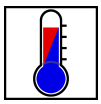
1. Loose tubes: tubes of stainless steel, filled with a water-blocking compound, and containing up to 48 or 96 optical fibers.
2. Cable core:
   - For low fibre counts (up to 96): central steel tube with polyethylene sheath
   - For fibre counts up to 384: up to 8 steel tubes stranded together, water-blocking filling compound, polyethylene inner sheath
3. Strength member: one or two layers of steel wires over the cable cable core
4. Outer sheath: polyethylene

Identification

- Outer sheath marking: cable identification and metric embossed each meter interval on the outer sheath.
- Identification of the loose tubes: the steel wires are coated with coloured PE indicating the tube counting sequence (red towards blue). Tube 1 lies between the red and the blue marker.



Operating temp. range
-10 .. 40 °C



Storage temperature, range
-30 .. 60 °C

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River and lake cables (RLC-1)

Characteristics

Construction characteristics	
Outer sheath	Polyethylene
Strength member	Steel wires
Inner sheath	Polyethylene
Usage characteristics	
Operating temperature, range	-10 .. 40 °C
Storage temperature, range	-30 .. 60 °C

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River and lake cables (RLC-1)

Fibre optic cables for installation in rivers and lakes

Description

Applications

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Design

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Identification

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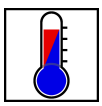
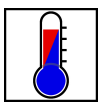


Operating temp. range
-10 .. 40 °C



Storage temperature, range
-30 .. 60 °C

static bending rad.
0.25 mm

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River and lake cables (RLC-1)

Characteristics

Construction characteristics	
Strength member	Steel wires
Inner sheath	Polyethylene
Outer sheath	Polyethylene
Dimensional characteristics	
Number of optical fibres	48
Number of tubes	4
Nominal outer diameter	27.5 mm
Approximate weight	1000 kg/km
Mechanical characteristics	
Nominal transient tensile strength	5 kN
Minimum breaking load	130 kN
Impact resistance (EN 187 000)	200 J
Crush resistance (EN 187 000)	10 kN
Usage characteristics	
Operating temperature, range	-10 .. 40 °C
Storage temperature, range	-30 .. 60 °C
Minimum static operating bending radius	0.25 mm

Product List

=Make to order, =Make to stock

Nexans ref.	Name
	RLC-1 192/10
	RLC-1 192/50
	RLC-1 384/10
	RLC-1 48/10
	RLC-1 48/30
	RLC-1 48/5
	RLC-1 96/10
	RLC-1 96/30

= Make to order, = Make to stock

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Telecom Interconnect components

To match our various cables, we manufacture and supply all kinds of access inter-connect network solutions: from copper wiring system and fiber optic management modules, to a full range of distribution frames and large splicing closures.

Since each network has its own topology, Nexans has developed a special distribution frame to interconnect outside plant cable and electronics equipment at the level of main exchange nodes. A unique modular splicing assembly makes it possible to provide upgraded routing of fibers at each interconnect node, thus allowing the operator to manage optical individually. Along the line, splice protection in line or domes closures can accommodate from low fiber to high fiber count. All systems are robust, even in harsh conditions.

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Copper solutions

Wiring solution

A reliable connection system for optimizing the density of copper networks from the exchanges to the subscriber's premises

Copper Distribution Frames

This interconnection solution includes the cabinets, the infrastructure and the connection blocks. 15 years expertise in push-button connection technology.

Boxes, Frames and Cabinets

These interconnection solutions include the infrastructures, the blocks and the connection modules.

Interconnection to the subscriber

Connection solutions for the local loop to meet xDSL.

Tools and accessories

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Copper distribution frames

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FUN-RAP

- Modular extendible wallmounted structure
- Variable pitch between frames
- Ease and speed of mounting and installation
- Frame equipped with rings and, if requested, with PVC guide for cables or with cable tray

Description

Function

This structure is the carcass of a distribution frame installed in transmission exchanges DDF, unbundling rooms or in buildings for the distribution of telephone lines.

It holds the connection modules enabling the distribution of analogue, xDSL, RNIS, PCM or coaxial lines. 100, 120 or 150 O symmetrical lines and 50 or 75 O coaxial circuits can be interconnected or patched.

Description

The modular design makes the structure extension easier Then the frame that is the best suited for the place and for the application is very simple to define.

Two 30 x 30 mm aluminium profiles make possible the wall mounting and the adjustment of the pitch between two frames these profiles are screwed to the wall and are equipped with a grounding device. We propose two types of frame :

- The **FUN** frame equipped with a versatile rail.
- The **RAP** frame equipped with a universal flat rail (width = 93.3 mm).

Options

- **Frames' equipment**
- **Grounding device**
- **Linking sections for extentions and accessories**
- **Kit : sopport on the ground**

*** Important :**

The "" characters in the reference system represent the number of frames, mind the fact that the number of frames must be lower than the sume of the profiles lengths divided by 215 (width of one frame) + 215 mm. .

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FUN-RAP

Characteristics

Usage characteristics	
Function	Distribution frames

Dimensions (mm)

Height	Depth	Width per frame
Height of 1 frame + 120 mm (structure)	395 (with horizontal ring)	215 (with vertical ringl)
Longueur totale	Sum of the profiles lengths + 215 mm	
Useful heigth	Frame heigth - 155 mm	

Technical data

Left or right rings	Length [mm]	Height [mm]
Left	300	1200
Left	300	1500
Left	300	2000
Left	300	2300
Left	500	1200
Left	500	1500
Left	500	2000
Left	500	2300
Left	750	1200
Left	750	1500
Left	750	2000
Left	750	2300
Left	1000	1200
Left	1000	1500
Left	1000	2000
Left	1000	2300
Left	1300	1200
Left	1300	1500
Left	1300	2000
Left	1300	2300
Left	1500	1200
Left	1500	1500
Left	1500	2000
Left	1500	2300
Left	1750	1200
Left	1750	1500
Left	1750	2000
Left	1750	2300
Left	2000	1200
Left	2000	1500

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FUN-RAP

Left or right rings	Length [mm]	Height [mm]
Left	2000	2000
Left	2000	2300
Right	300	1200
Right	300	1500
Right	300	2000
Right	300	2300
Right	500	1200
Right	500	1500
Right	500	2000
Right	500	2300
Right	750	1200
Right	750	1500
Right	750	2000
Right	750	2300
Right	1000	1200
Right	1000	1500
Right	1000	2000
Right	1000	2300
Right	1300	1200
Right	1300	1500
Right	1300	2000
Right	1300	2300
Right	1500	1200
Right	1500	1500
Right	1500	2000
Right	1500	2300
Right	1750	1200
Right	1750	1500
Right	1750	2000
Right	1750	2300
Right	2000	1200
Right	2000	1500
Right	2000	2000
Right	2000	2300

Product List

=Make to order, =Make to stock

Nexans ref.	Name	Height (mm)	Frames equipment	Length (mm)	Left or right rings
FUN / RAP E 200 GAN G 00 H 2300 L 1000 ##	FUN - RAP	2300	Without any device	1000	Left
FUN / RAP E 200 GAN G 00 H 2300 L 1300 ##	FUN - RAP	2300	Without any device	1300	Left
FUN / RAP E 200 GAN G 00 H 2000 L 500 ##	FUN - RAP	2000	Without any device	500	Left
FUN / RAP E 200 GAN G 00 H 2300 L 1750 ##	FUN - RAP	2300	Without any device	1750	Left
FUN / RAP E 200 GAN G 00 H 2000 L 1000 ##	FUN - RAP	2000	Without any device	1000	Left

= Make to order, = Make to stock

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FUN-RAP

Nexans ref.	Name	Height (mm)	Frames equipment	Length (mm)	Left or right rings
FUN / RAP E 200 GAN G 00 H 2300 L 1500 ##	FUN - RAP	2300	Without any device	1500	Left
FUN / RAP E 200 GAN G 00 H 2000 L 750 ##	FUN - RAP	2000	Without any device	750	Left
FUN / RAP E 200 GAN G 00 H 2000 L 300 ##	FUN - RAP	2000	Without any device	300	Left
FUN / RAP E 200 GAN G 00 H 2000 L 1500 ##	FUN - RAP	2000	Without any device	1500	Left
FUN / RAP E 200 GAN G 00 H 2300 L 2000 ##	FUN - RAP	2300	Without any device	2000	Left
FUN / RAP E 200 GAN G 00 H 2000 L 1300 ##	FUN - RAP	2000	Without any device	1300	Left
FUN / RAP E 200 GAN G 00 H 2000 L 1750 ##	FUN - RAP	2000	Without any device	1750	Left
FUN / RAP E 200 GAN G 00 H 1500 L 1000 ##	FUN - RAP	1500	Without any device	1000	Left
FUN / RAP E 200 GAN G 00 H 1500 L 300 ##	FUN - RAP	1500	Without any device	300	Left
FUN / RAP E 200 GAN G 00 H 1500 L 1500 ##	FUN - RAP	1500	Without any device	1500	Left
FUN / RAP E 200 GAN G 00 H 2000 L 2000 ##	FUN - RAP	2000	Without any device	2000	Left
FUN / RAP E 200 GAN G 00 H 1500 L 1300 ##	FUN - RAP	1500	Without any device	1300	Left
FUN / RAP E 200 GAN G 00 H 1500 L 750 ##	FUN - RAP	1500	Without any device	750	Left
FUN / RAP E 200 GAN G 00 H 1500 L 2000 ##	FUN - RAP	1500	Without any device	2000	Left
FUN / RAP E 200 GAN G 00 H 1500 L 500 ##	FUN - RAP	1500	Without any device	500	Left
FUN / RAP E 200 GAN G 00 H 1500 L 1750 ##	FUN - RAP	1500	Without any device	1750	Left
FUN / RAP E 200 GAN G 00 H 1200 L 300 ##	FUN - RAP	1200	Without any device	300	Left
FUN / RAP E 200 GAN G 00 H 1200 L 1500 ##	FUN - RAP	1200	Without any device	1500	Left
FUN / RAP E 200 GAN G 00 H 1200 L 750 ##	FUN - RAP	1200	Without any device	750	Left
FUN / RAP E 200 GAN G 00 H 1200 L 2000 ##	FUN - RAP	1200	Without any device	2000	Left
FUN / RAP E 200 GAN G 00 H 1200 L 500 ##	FUN - RAP	1200	Without any device	500	Left
FUN / RAP E 200 GAN G 00 H 1200 L 1750 ##	FUN - RAP	1200	Without any device	1750	Left
FUN / RAP E 200 GAN G 00 H 1200 L 1300 ##	FUN - RAP	1200	Without any device	1300	Left
FUN / RAP E 200 GAN G AG H 2300 L 500 ##	FUN - RAP	2300	With PVC guide for cables	500	Left
FUN / RAP E 200 GAN G 00 H 1200 L 1000 ##	FUN - RAP	1200	Without any device	1000	Left
FUN / RAP E 200 GAN G AG H 2300 L 300 ##	FUN - RAP	2300	With PVC guide for cables	300	Left

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FUN-RAP

Nexans ref.	Name	Height (mm)	Frames equipment	Length (mm)	Left or right rings
FUN / RAP E 200 GAN G AG H 2300 L 750 ##	FUN - RAP	2300	With PVC guide for cables	750	Left
FUN / RAP E 200 GAN G AG H 2300 L 2000 ##	FUN - RAP	2300	With PVC guide for cables	2000	Left
FUN / RAP E 200 GAN G AG H 2300 L 1300 ##	FUN - RAP	2300	With PVC guide for cables	1300	Left
FUN / RAP E 200 GAN G AG H 2000 L 500 ##	FUN - RAP	2000	With PVC guide for cables	500	Left
FUN / RAP E 200 GAN G AG H 2300 L 1000 ##	FUN - RAP	2300	With PVC guide for cables	1000	Left
FUN / RAP E 200 GAN G AG H 2000 L 300 ##	FUN - RAP	2000	With PVC guide for cables	300	Left
FUN / RAP E 200 GAN G AG H 2300 L 1750 ##	FUN - RAP	2300	With PVC guide for cables	1750	Left
FUN / RAP E 200 GAN G AG H 2000 L 1000 ##	FUN - RAP	2000	With PVC guide for cables	1000	Left
FUN / RAP E 200 GAN G AG H 2300 L 1500 ##	FUN - RAP	2300	With PVC guide for cables	1500	Left
FUN / RAP E 200 GAN G AG H 2000 L 750 ##	FUN - RAP	2000	With PVC guide for cables	750	Left
FUN / RAP E 200 GAN G AG H 2000 L 1300 ##	FUN - RAP	2000	With PVC guide for cables	1300	Left
FUN / RAP E 200 GAN G AG H 1500 L 500 ##	FUN - RAP	1500	With PVC guide for cables	500	Left
FUN / RAP E 200 GAN G AG H 2000 L 1750 ##	FUN - RAP	2000	With PVC guide for cables	1750	Left
FUN / RAP E 200 GAN G AG H 1500 L 1000 ##	FUN - RAP	1500	With PVC guide for cables	1000	Left
FUN / RAP E 200 GAN G AG H 2000 L 1500 ##	FUN - RAP	2000	With PVC guide for cables	1500	Left
FUN / RAP E 200 GAN G AG H 1500 L 750 ##	FUN - RAP	1500	With PVC guide for cables	750	Left
FUN / RAP E 200 GAN G AG H 1500 L 300 ##	FUN - RAP	1500	With PVC guide for cables	300	Left
FUN / RAP E 200 GAN G AG H 1500 L 1500 ##	FUN - RAP	1500	With PVC guide for cables	1500	Left
FUN / RAP E 200 GAN G AG H 2000 L 2000 ##	FUN - RAP	2000	With PVC guide for cables	2000	Left
FUN / RAP E 200 GAN G AG H 1500 L 1300 ##	FUN - RAP	1500	With PVC guide for cables	1300	Left
FUN / RAP E 200 GAN G AG H 1500 L 1750 ##	FUN - RAP	1500	With PVC guide for cables	1750	Left
FUN / RAP E 200 GAN G AG H 1200 L 1000 ##	FUN - RAP	1200	With PVC guide for cables	1000	Left
FUN / RAP E 200 GAN G AG H 1200 L 300 ##	FUN - RAP	1200	With PVC guide for cables	300	Left
FUN / RAP E 200 GAN G AG H 1200 L 1500 ##	FUN - RAP	1200	With PVC guide for cables	1500	Left
FUN / RAP E 200 GAN G AG H 1500 L 2000 ##	FUN - RAP	1500	With PVC guide for cables	2000	Left
FUN / RAP E 200 GAN G AG H 1200 L 1300 ##	FUN - RAP	1200	With PVC guide for cables	1300	Left

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FUN-RAP

Nexans ref.	Name	Height (mm)	Frames equipment	Length (mm)	Left or right rings
FUN / RAP E 200 GAN G AG H 1200 L 750 ##	FUN - RAP	1200	With PVC guide for cables	750	Left
FUN / RAP E 200 GAN G AG H 1200 L 2000 ##	FUN - RAP	1200	With PVC guide for cables	2000	Left
FUN / RAP E 200 GAN G AG H 1200 L 500 ##	FUN - RAP	1200	With PVC guide for cables	500	Left
FUN / RAP E 200 GAN G AG H 1200 L 1750 ##	FUN - RAP	1200	With PVC guide for cables	1750	Left
FUN / RAP E 200 GAN G AC H 2300 L 300 ##	FUN - RAP	2300	With cable tray	300	Left
FUN / RAP E 200 GAN G AC H 2300 L 1500 ##	FUN - RAP	2300	With cable tray	1500	Left
FUN / RAP E 200 GAN G AC H 2300 L 750 ##	FUN - RAP	2300	With cable tray	750	Left
FUN / RAP E 200 GAN G AC H 2300 L 2000 ##	FUN - RAP	2300	With cable tray	2000	Left
FUN / RAP E 200 GAN G AC H 2300 L 500 ##	FUN - RAP	2300	With cable tray	500	Left
FUN / RAP E 200 GAN G AC H 2300 L 1750 ##	FUN - RAP	2300	With cable tray	1750	Left
FUN / RAP E 200 GAN G AC H 2300 L 1300 ##	FUN - RAP	2300	With cable tray	1300	Left
FUN / RAP E 200 GAN G AC H 2000 L 500 ##	FUN - RAP	2000	With cable tray	500	Left
FUN / RAP E 200 GAN G AC H 2300 L 1000 ##	FUN - RAP	2300	With cable tray	1000	Left
FUN / RAP E 200 GAN G AC H 2000 L 300 ##	FUN - RAP	2000	With cable tray	300	Left
FUN / RAP E 200 GAN G AC H 2000 L 750 ##	FUN - RAP	2000	With cable tray	750	Left
FUN / RAP E 200 GAN G AC H 2000 L 2000 ##	FUN - RAP	2000	With cable tray	2000	Left
FUN / RAP E 200 GAN G AC H 2000 L 1300 ##	FUN - RAP	2000	With cable tray	1300	Left
FUN / RAP E 200 GAN G AC H 1500 L 500 ##	FUN - RAP	1500	With cable tray	500	Left
FUN / RAP E 200 GAN G AC H 2000 L 1000 ##	FUN - RAP	2000	With cable tray	1000	Left
FUN / RAP E 200 GAN G AC H 1500 L 300 ##	FUN - RAP	1500	With cable tray	300	Left
FUN / RAP E 200 GAN G AC H 2000 L 1750 ##	FUN - RAP	2000	With cable tray	1750	Left
FUN / RAP E 200 GAN G AC H 1500 L 1000 ##	FUN - RAP	1500	With cable tray	1000	Left
FUN / RAP E 200 GAN G AC H 2000 L 1500 ##	FUN - RAP	2000	With cable tray	1500	Left
FUN / RAP E 200 GAN G AC H 1500 L 750 ##	FUN - RAP	1500	With cable tray	750	Left
FUN / RAP E 200 GAN G AC H 1500 L 1300 ##	FUN - RAP	1500	With cable tray	1300	Left
FUN / RAP E 200 GAN G AC H 1200 L 500 ##	FUN - RAP	1200	With cable tray	500	Left

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FUN-RAP

Nexans ref.	Name	Height (mm)	Frames equipment	Length (mm)	Left or right rings
FUN / RAP E 200 GAN G AC H 1500 L 1750 ##	FUN - RAP	1500	With cable tray	1750	Left
FUN / RAP E 200 GAN G AC H 1200 L 1000 ##	FUN - RAP	1200	With cable tray	1000	Left
FUN / RAP E 200 GAN G AC H 1500 L 1500 ##	FUN - RAP	1500	With cable tray	1500	Left
FUN / RAP E 200 GAN G AC H 1200 L 750 ##	FUN - RAP	1200	With cable tray	750	Left
FUN / RAP E 200 GAN G AC H 1200 L 300 ##	FUN - RAP	1200	With cable tray	300	Left
FUN / RAP E 200 GAN G AC H 1200 L 1500 ##	FUN - RAP	1200	With cable tray	1500	Left
FUN / RAP E 200 GAN G AC H 1500 L 2000 ##	FUN - RAP	1500	With cable tray	2000	Left
FUN / RAP E 200 GAN G AC H 1200 L 1300 ##	FUN - RAP	1200	With cable tray	1300	Left
FUN / RAP E 200 GAN G AC H 1200 L 1750 ##	FUN - RAP	1200	With cable tray	1750	Left
FUN / RAP E 200 GAN D 00 H 2300 L 500 ##	FUN - RAP	2300	Without any device	500	Right
FUN / RAP E 200 GAN D 00 H 2300 L 1000 ##	FUN - RAP	2300	Without any device	1000	Right
FUN / RAP E 200 GAN G AC H 1200 L 2000 ##	FUN - RAP	1200	With cable tray	2000	Left
FUN / RAP E 200 GAN D 00 H 2300 L 750 ##	FUN - RAP	2300	Without any device	750	Right
FUN / RAP E 200 GAN D 00 H 2300 L 300 ##	FUN - RAP	2300	Without any device	300	Right
FUN / RAP E 200 GAN D 00 H 2300 L 1500 ##	FUN - RAP	2300	Without any device	1500	Right
FUN / RAP E 200 GAN D 00 H 2300 L 1300 ##	FUN - RAP	2300	Without any device	1300	Right
FUN / RAP E 200 GAN D 00 H 2300 L 1750 ##	FUN - RAP	2300	Without any device	1750	Right
FUN / RAP E 200 GAN D 00 H 2000 L 1000 ##	FUN - RAP	2000	Without any device	1000	Right
FUN / RAP E 200 GAN D 00 H 2300 L 2000 ##	FUN - RAP	2300	Without any device	2000	Right
FUN / RAP E 200 GAN D 00 H 2000 L 1300 ##	FUN - RAP	2000	Without any device	1300	Right
FUN / RAP E 200 GAN D 00 H 2000 L 750 ##	FUN - RAP	2000	Without any device	750	Right
FUN / RAP E 200 GAN D 00 H 2000 L 2000 ##	FUN - RAP	2000	Without any device	2000	Right
FUN / RAP E 200 GAN D 00 H 2000 L 300 ##	FUN - RAP	2000	Without any device	300	Right
FUN / RAP E 200 GAN D 00 H 2000 L 1500 ##	FUN - RAP	2000	Without any device	1500	Right
FUN / RAP E 200 GAN D 00 H 2000 L 500 ##	FUN - RAP	2000	Without any device	500	Right
FUN / RAP E 200 GAN D 00 H 2000 L 1750 ##	FUN - RAP	2000	Without any device	1750	Right

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FUN-RAP

Nexans ref.	Name	Height (mm)	Frames equipment	Length (mm)	Left or right rings
FUN / RAP E 200 GAN D 00 H 1500 L 300 ##	FUN - RAP	1500	Without any device	300	Right
FUN / RAP E 200 GAN D 00 H 1500 L 1500 ##	FUN - RAP	1500	Without any device	1500	Right
FUN / RAP E 200 GAN D 00 H 1500 L 500 ##	FUN - RAP	1500	Without any device	500	Right
FUN / RAP E 200 GAN D 00 H 1500 L 1750 ##	FUN - RAP	1500	Without any device	1750	Right
FUN / RAP E 200 GAN D 00 H 1500 L 1300 ##	FUN - RAP	1500	Without any device	1300	Right
FUN / RAP E 200 GAN D 00 H 1200 L 500 ##	FUN - RAP	1200	Without any device	500	Right
FUN / RAP E 200 GAN D 00 H 1500 L 750 ##	FUN - RAP	1500	Without any device	750	Right
FUN / RAP E 200 GAN D 00 H 1500 L 2000 ##	FUN - RAP	1500	Without any device	2000	Right
FUN / RAP E 200 GAN D 00 H 1500 L 1000 ##	FUN - RAP	1500	Without any device	1000	Right
FUN / RAP E 200 GAN D 00 H 1200 L 300 ##	FUN - RAP	1200	Without any device	300	Right
FUN / RAP E 200 GAN D 00 H 1200 L 750 ##	FUN - RAP	1200	Without any device	750	Right
FUN / RAP E 200 GAN D 00 H 1200 L 2000 ##	FUN - RAP	1200	Without any device	2000	Right
FUN / RAP E 200 GAN D 00 H 1200 L 1000 ##	FUN - RAP	1200	Without any device	1000	Right
FUN / RAP E 200 GAN D AG H 2300 L 300 ##	FUN - RAP	2300	With PVC guide for cables	300	Right
FUN / RAP E 200 GAN D 00 H 1200 L 1750 ##	FUN - RAP	1200	Without any device	1750	Right
FUN / RAP E 200 GAN D AG H 2300 L 1000 ##	FUN - RAP	2300	With PVC guide for cables	1000	Right
FUN / RAP E 200 GAN D 00 H 1200 L 1300 ##	FUN - RAP	1200	Without any device	1300	Right
FUN / RAP E 200 GAN D AG H 2300 L 500 ##	FUN - RAP	2300	With PVC guide for cables	500	Right
FUN / RAP E 200 GAN D 00 H 1200 L 1500 ##	FUN - RAP	1200	Without any device	1500	Right
FUN / RAP E 200 GAN D AG H 2300 L 750 ##	FUN - RAP	2300	With PVC guide for cables	750	Right
FUN / RAP E 200 GAN D AG H 2300 L 1300 ##	FUN - RAP	2300	With PVC guide for cables	1300	Right
FUN / RAP E 200 GAN D AG H 2000 L 500 ##	FUN - RAP	2000	With PVC guide for cables	500	Right
FUN / RAP E 200 GAN D AG H 2300 L 1500 ##	FUN - RAP	2300	With PVC guide for cables	1500	Right
FUN / RAP E 200 GAN D AG H 2000 L 750 ##	FUN - RAP	2000	With PVC guide for cables	750	Right
FUN / RAP E 200 GAN D AG H 2000 L 300 ##	FUN - RAP	2000	With PVC guide for cables	300	Right
FUN / RAP E 200 GAN D AG H 2000 L 1500	FUN - RAP	2000	With PVC guide for cables	1500	Right

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FUN-RAP

Nexans ref.	Name	Height (mm)	Frames equipment	Length (mm)	Left or right rings
FUN / RAP E 200 GAN D AG H 2300 L 1750 ##	FUN - RAP	2300	With PVC guide for cables	1750	Right
FUN / RAP E 200 GAN D AG H 2000 L 1000 ##	FUN - RAP	2000	With PVC guide for cables	1000	Right
FUN / RAP E 200 GAN D AG H 2300 L 2000 ##	FUN - RAP	2300	With PVC guide for cables	2000	Right
FUN / RAP E 200 GAN D AG H 2000 L 1300 ##	FUN - RAP	2000	With PVC guide for cables	1300	Right
FUN / RAP E 200 GAN D AG H 2000 L 1750 ##	FUN - RAP	2000	With PVC guide for cables	1750	Right
FUN / RAP E 200 GAN D AG H 1500 L 1000 ##	FUN - RAP	1500	With PVC guide for cables	1000	Right
FUN / RAP E 200 GAN D AG H 2000 L 2000 ##	FUN - RAP	2000	With PVC guide for cables	2000	Right
FUN / RAP E 200 GAN D AG H 1500 L 1300 ##	FUN - RAP	1500	With PVC guide for cables	1300	Right
FUN / RAP E 200 GAN D AG H 1500 L 750 ##	FUN - RAP	1500	With PVC guide for cables	750	Right
FUN / RAP E 200 GAN D AG H 1500 L 2000 ##	FUN - RAP	1500	With PVC guide for cables	2000	Right
FUN / RAP E 200 GAN D AG H 1500 L 300 ##	FUN - RAP	1500	With PVC guide for cables	300	Right
FUN / RAP E 200 GAN D AG H 1500 L 1500 ##	FUN - RAP	1500	With PVC guide for cables	1500	Right
FUN / RAP E 200 GAN D AG H 1500 L 500 ##	FUN - RAP	1500	With PVC guide for cables	500	Right
FUN / RAP E 200 GAN D AG H 1500 L 1750 ##	FUN - RAP	1500	With PVC guide for cables	1750	Right
FUN / RAP E 200 GAN D AG H 1200 L 300 ##	FUN - RAP	1200	With PVC guide for cables	300	Right
FUN / RAP E 200 GAN D AG H 1200 L 1500 ##	FUN - RAP	1200	With PVC guide for cables	1500	Right
FUN / RAP E 200 GAN D AG H 1200 L 500 ##	FUN - RAP	1200	With PVC guide for cables	500	Right
FUN / RAP E 200 GAN D AG H 1200 L 1750 ##	FUN - RAP	1200	With PVC guide for cables	1750	Right
FUN / RAP E 200 GAN D AG H 1200 L 1300 ##	FUN - RAP	1200	With PVC guide for cables	1300	Right
FUN / RAP E 200 GAN D AC H 2300 L 500 ##	FUN - RAP	2300	With cable tray	500	Right
FUN / RAP E 200 GAN D AG H 1200 L 750 ##	FUN - RAP	1200	With PVC guide for cables	750	Right
FUN / RAP E 200 GAN D AG H 1200 L 2000 ##	FUN - RAP	1200	With PVC guide for cables	2000	Right
FUN / RAP E 200 GAN D AG H 1200 L 1000 ##	FUN - RAP	1200	With PVC guide for cables	1000	Right
FUN / RAP E 200 GAN D AC H 2300 L 300 ##	FUN - RAP	2300	With cable tray	300	Right
FUN / RAP E 200 GAN D AC H 2300 L 750 ##	FUN - RAP	2300	With cable tray	750	Right
FUN / RAP E 200 GAN D AC H 2300 L 2000 ##	FUN - RAP	2300	With cable tray	2000	Right

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FUN-RAP

Nexans ref.	Name	Height (mm)	Frames equipment	Length (mm)	Left or right rings
FUN / RAP E 200 GAN D AC H 2300 L 1000 ##	FUN - RAP	2300	With cable tray	1000	Right
FUN / RAP E 200 GAN D AC H 2000 L 300 ##	FUN - RAP	2000	With cable tray	300	Right
FUN / RAP E 200 GAN D AC H 2300 L 1750 ##	FUN - RAP	2300	With cable tray	1750	Right
FUN / RAP E 200 GAN D AC H 2000 L 1000 ##	FUN - RAP	2000	With cable tray	1000	Right
FUN / RAP E 200 GAN D AC H 2300 L 1300 ##	FUN - RAP	2300	With cable tray	1300	Right
FUN / RAP E 200 GAN D AC H 2000 L 500 ##	FUN - RAP	2000	With cable tray	500	Right
FUN / RAP E 200 GAN D AC H 2300 L 1500 ##	FUN - RAP	2300	With cable tray	1500	Right
FUN / RAP E 200 GAN D AC H 2000 L 750 ##	FUN - RAP	2000	With cable tray	750	Right
FUN / RAP E 200 GAN D AC H 2000 L 1300 ##	FUN - RAP	2000	With cable tray	1300	Right
FUN / RAP E 200 GAN D AC H 1500 L 500 ##	FUN - RAP	1500	With cable tray	500	Right
FUN / RAP E 200 GAN D AC H 2000 L 1500 ##	FUN - RAP	2000	With cable tray	1500	Right
FUN / RAP E 200 GAN D AC H 1500 L 750 ##	FUN - RAP	1500	With cable tray	750	Right
FUN / RAP E 200 GAN D AC H 1500 L 300 ##	FUN - RAP	1500	With cable tray	300	Right
FUN / RAP E 200 GAN D AC H 1500 L 1500 ##	FUN - RAP	1500	With cable tray	1500	Right
FUN / RAP E 200 GAN D AC H 2000 L 1750 ##	FUN - RAP	2000	With cable tray	1750	Right
FUN / RAP E 200 GAN D AC H 1500 L 1000 ##	FUN - RAP	1500	With cable tray	1000	Right
FUN / RAP E 200 GAN D AC H 2000 L 2000 ##	FUN - RAP	2000	With cable tray	2000	Right
FUN / RAP E 200 GAN D AC H 1500 L 1300 ##	FUN - RAP	1500	With cable tray	1300	Right
FUN / RAP E 200 GAN D AC H 1500 L 1750 ##	FUN - RAP	1500	With cable tray	1750	Right
FUN / RAP E 200 GAN D AC H 1200 L 1000 ##	FUN - RAP	1200	With cable tray	1000	Right
FUN / RAP E 200 GAN D AC H 1500 L 2000 ##	FUN - RAP	1500	With cable tray	2000	Right
FUN / RAP E 200 GAN D AC H 1200 L 1300 ##	FUN - RAP	1200	With cable tray	1300	Right
FUN / RAP E 200 GAN D AC H 1200 L 750 ##	FUN - RAP	1200	With cable tray	750	Right
FUN / RAP E 200 GAN D AC H 1200 L 2000 ##	FUN - RAP	1200	With cable tray	2000	Right
FUN / RAP E 200 GAN D AC H 1200 L 300 ##	FUN - RAP	1200	With cable tray	300	Right
FUN / RAP E 200 GAN D AC H 1200 L 1500 ##	FUN - RAP	1200	With cable tray	1500	Right

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FUN-RAP

Nexans ref.	Name	Height (mm)	Frames equipment	Length (mm)	Left or right rings
FUN / RAP E 200 GAN D AC H 1200 L 500 ##	FUN - RAP	1200	With cable tray	500	Right
FUN / RAP E 200 GAN D AC H 1200 L 1750 ##	FUN - RAP	1200	With cable tray	1750	Right
FUN / RAP E 200 GAN G 00 H 2300 L 300 ##	FUN - RAP	2300	Without any device	300	Left
FUN / RAP E 200 GAN G 00 H 2300 L 500 ##	FUN - RAP	2300	Without any device	500	Left
FUN / RAP E 200 GAN G 00 H 2300 L 750 ##	FUN - RAP	2300	Without any device	750	Left

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COAX-Star Module

- Patching shelf for coaxial connectors.
- Up to 64 coaxial connectors
- Swivelling type
- Available in ETSI or 19" format.
- For Opteastar frames or standard cabinets.

Description

Function

The patching shelf is a basic chasses fitted with a front panel allowing the mounting of coaxial sockets.

This rack can be installed in all the kinds of cabinets, specially in Nexans's cabinet with other optical modules.

Design

Each panel can have 64 connections.

The module is compliant with the various frame format on the market : 19" and ETSI.

The patching module is composed of :

- a fixed chassis attached to the cabinet
- a front patching panel with a capacity of 64 connectors. The patching panel is a stainless steel plate. The space between two sockets allows the use of U-link connectors.
- a front panel output system for the jumpers in order to faciliate the identification and management.
- a frontal protection plate for the jumpers.
- a device for lateral management of the jumpers.

The shelf is of swivelling type in order to optimise the accessibility while allowing maximum movement of the coaxial jumpers when opening the module.

*** Important :**

The "" characters in the reference system represent the number of sockets of the equipment, be aware the maximun capacity is 64.

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COAX-Star Module

Product List

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Nexans ref.	Name
TDCC E CO A ## E EET Y	Coax-Star Module
TDCC E CO A ## E E19 Y	Coax-Star Module
TDCC E CO B ## E EET Y	Coax-Star Module
TDCC E CO A ## E UET Y	Coax-Star Module
TDCC E CO C ## E E19 Y	Coax-Star Module
TDCC E CO A ## E U19 Y	Coax-Star Module
TDCC E CO B ## E UET Y	Coax-Star Module
TDCC E CO B ## E U19 Y	Coax-Star Module
TDCC E CO C ## E UET Y	Coax-Star Module
TDCC E CO B ## E E19 Y	Coax-Star Module
TDCC E CO C ## E EET Y	Coax-Star Module
TDCC E CO C ## E U19 Y	Coax-Star Module
TDCC U CO A ## E UET Y	Coax-Star Module
TDCC U CO A ## E EET Y	Coax-Star Module
TDCC U CO B ## E U19 Y	Coax-Star Module
TDCC U CO A ## E E19 Y	Coax-Star Module
TDCC U CO B ## E EET Y	Coax-Star Module
TDCC U CO B ## E E19 Y	Coax-Star Module
TDCC U CO C ## E EET Y	Coax-Star Module
TDCC U CO A ## E U19 Y	Coax-Star Module
TDCC U CO B ## E UET Y	Coax-Star Module
TDCC U CO C ## E E19 Y	Coax-Star Module
TDCC U CO C ## E UET Y	Coax-Star Module
TDCC U CO C ## E U19 Y	Coax-Star Module

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Selling delivery information

Remark :

the only difference between a subrack module and an elementary module is the back chassis. In the subrack version, there is a back plate to strengthen the structure and to allow the cable management in the back side of the module. If the rack configuration is supposed to be upgraded, the elementary version should be selected, since the cable is directly managed by accessories integrated in the back plate of the rack itself.

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RJ-Star Module

- Patching shelf for RJ connectors.
- According to the kind of RJ connectors
- Swivelling type
- Available in ETSI or 19" format.
- For Opteastar frames or standard cabinets.

Description

Function

The patching shelf is a basic chases fitted with a front panel allowing the mouting of RJ connectors.

This rack can be installed in all the kinds of cabinets, specially in Nexans 's cabinet with other optical modules.

Design

The maximum capacity is determined according to the type of RJ connectors (ex: 16 for RJ 49 connectors). Please contact us for all other capacities.

The module is compliant with the various frame formats on the market : 19" and ETSI.

The patching module is composed of :

- a fixed chassis attached to the cabinet,
- a front patching panel. The patching panel is an anodised aluminium plate. The space between two sockets allows the use of U-link and Test U-link conectors.
- a front panel output system for the jumpers in order to faciliate the identification and management.
- a frontal protection plate for the jumpers.

The shelf is of swivelling type in order to optimise the accessibility while allowing minimum movement of the jumpers when opening the module.

*** Important :**

The "" characters in the reference system represent the number of connectors of the equipment, be aware the maximun capacity is 32.

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RJ-Star Module

Characteristics

Dimensional characteristics	
Depth	238 mm
Height	200 mm
Usage characteristics	
Function	Frames in racks

Product List

=Make to order, =Make to stock

Nexans ref.	Name	Cable head	Cabinet format	Connector type
TDCC E RJ B ## E19 Y	RJ-Star Module	Elementary module	E19	RJ 45 shielded
TDCC E RJ A ## E19 Y	RJ-Star Module	Elementary module	E19	RJ 45
TDCC E RJ A ## EET Y	RJ-Star Module	Elementary module	EET	RJ 45
TDCC E RJ A ## UET Y	RJ-Star Module	Elementary module	UET	RJ 45
TDCC E RJ B ## EET Y	RJ-Star Module	Elementary module	EET	RJ 45 shielded
TDCC E RJ A ## U19 Y	RJ-Star Module	Elementary module	U19	RJ 45
TDCC E RJ B ## UET Y	RJ-Star Module	Elementary module	UET	RJ 45 shielded
TDCC E RJ C ## U19 Y	RJ-Star Module	Elementary module	U19	RJ 11
TDCC E RJ C ## UET Y	RJ-Star Module	Elementary module	UET	RJ 11
TDCC U RJ A ## U19 Y	RJ-Star Module	Subrack module	U19	RJ 45
TDCC E RJ B ## U19 Y	RJ-Star Module	Elementary module	U19	RJ 45 shielded
TDCC U RJ A ## EET Y	RJ-Star Module	Subrack module	EET	RJ 45
TDCC E RJ C ## EET Y	RJ-Star Module	Elementary module	EET	RJ 11
TDCC U RJ A ## E19 Y	RJ-Star Module	Subrack module	E19	RJ 45
TDCC E RJ C ## E19 Y	RJ-Star Module	Elementary module	E19	RJ 11
TDCC U RJ A ## UET Y	RJ-Star Module	Subrack module	UET	RJ 45
TDCC U RJ B ## EET Y	RJ-Star Module	Subrack module	EET	RJ 45 shielded
TDCC U RJ C ## E19 Y	RJ-Star Module	Subrack module	E19	RJ 11
TDCC U RJ C ## EET Y	RJ-Star Module	Subrack module	EET	RJ 11
TDCC U RJ B ## E19 Y	RJ-Star Module	Subrack module	E19	RJ 45 shielded
TDCC U RJ C ## UET Y	RJ-Star Module	Subrack module	UET	RJ 11
TDCC U RJ B ## UET Y	RJ-Star Module	Subrack module	UET	RJ 45 shielded
TDCC U RJ C ## U19 Y	RJ-Star Module	Subrack module	U19	RJ 11
TDCC U RJ B ## U19 Y	RJ-Star Module	Subrack module	U19	RJ 45 shielded

= Make to order, = Make to stock

Selling delivery information

Remarks

For other connectors, please call.

The only difference between a subrack module and an elementary module is the back chassis. In the subrack version, there is a back plate to strengthen the structure and to allow the cable management in the back side of the module. If the rack configuration is supposed to be upgraded, the elementary version should be selected, since the cable is directly managed by accessories integrated in the back plate of the rack itself.

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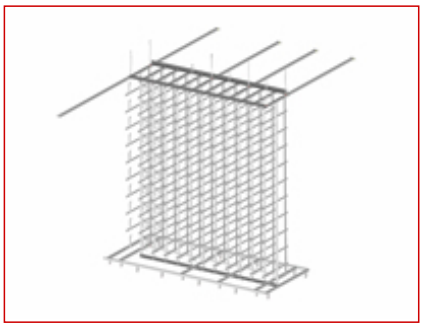
COPPERSTAR

- For centrally mounted MDF with high capacity.
- Self supporting metallic structure.
- 8-10-12 Levels
- 200 or 250mm between frames (horizontal pitch) or between levels (vertical pitch).
- Designed to hold any kind of modules or terminal blocks.

Description



Function

The double-side frames is the skeleton for centrally-mounted MDF for high capacity PABXs.

For the switching side (vertical side), it holds RC5F, RC8 or Compax modules. For the line side (horizontal side) areinstalled the terminal blocks (cable heads) or the Compax modules.

Design

This MDF is designed with modular elements. Then it's easy to define the well-adapted MDF for the room and the application.

A MDF is made of a structure with:

A. The frames with a variable height according to the number of levels and the pitch between two levels.

Frames are built with 8, 10 or 12 levels and vertical pitch of 200 or 250mm.

They are provided with guiding blue arms and patching rings, wath allows to optimise the cables management in the MDF.

That pitch is 200 or 250mm long.

Final assembly of the MDF is carried out on site.

B. The horizontal elements determine the MDF length.

C. A protection around the MDF is located in the bottom half.

D. An horizontal and a vertical grounding kits.

E. A ceiling-fixing kit.

F. A wall-fixing kit.

According to the chosen equipement are installed on the frames either modules supports or teminal blocks supports or polivalent rails (please look at the recapitulative board in datasheet).

All the different elements are provided with a summary list of all the components. An explanation notice lists the MDF installation.

Stepladders can be supplied in order to make upper levels easily accessible.

The total capacity of the MDF depends on the useful length of frame and on the dimensions of the modules or of the terminal blocks.

- **Reference system**
- **Capacity of the structure**
- **Length**

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Characteristics

Usage characteristics	
Function	Main distribution frames

Selling delivery information

Remarks :

- The label holder, that is installed on the top of the modules, is 16 mm high. If you don't need it, you have to substract this height from the cable head height.
- Please look at the different data sheets if you want more information on these modules.

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Digital Star / Open Rack

- Extendible modular structure
- Can be installed in row or centrally mounted
- Ease and speed of assembly and installation

Description

Function

This rack is installed in telephone exchanges. It has been developed to warrant the general layout of the room. Dimension are standard so that the installation is possible either in row along the S9 type cabinets or as centrally mounted.

Its interconnects two or more live pieces of equipment that are exchanging digital data at high speed (Switch, multiplexing equipment).

Its holds the connection modules enabling the distribution of symmetrical or coaxial lines (E1, S1, E2... STM-1).

Design

- Made of standard aluminium profiles 30 x 30 mm
- Built with FUN Frames equipped with polyvalent rail.

Each Frame is composed of :

- 2 aluminium rails with useful height of 1610 mm
- 1 PVC guide for cables or 1 cable tray 100 x 50 mm
- 4 vertical rings (diam. = 165 mm)
- 2 horizontal rings (diam. = 165 mm)

The earthing is secured through :

- A copper tape inserted into the aluminium profiles.
- A grounding cable on the right side of each frame at the top and at the bottom of the rack. It secures the continuity between the rails and aluminium profiles.
- A bolt that enables the connection to the general grounding device of the building.

4 kinds of Openracks are proposed :

- 2 single-sided frames
- 4 single-sided frames
- 4 double-sided frames
- 8 double-sided frames

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Digital Star / Open Rack

Characteristics

Dimensional characteristics	
Height	2200 mm
Usage characteristics	
Function	Distribution frames

Product List

=Make to order, =Make to stock

Nexans ref.	Name	Frames equipment	Number of frames
OPENRACKSF2FH2200A0	Digital Star Open Rack	Without any device	2
OPENRACKSF2FH2200AG	Digital Star Open Rack	With PVC guide for cables	2
OPENRACKSF2FH2200AC	Digital Star Open Rack	With cable tray	2
OPENRACKSF4FH2200A0	Digital Star Open Rack	Without any device	4
OPENRACKSF4FH2200AG	Digital Star Open Rack	With PVC guide for cables	4
OPENRACKSF4FH2200AC	Digital Star Open Rack	With cable tray	4
OPENRACKDF2FH2200A0	Digital Star Open Rack	Without any device	2
OPENRACKDF2FH2200AG	Digital Star Open Rack	With PVC guide for cables	2
OPENRACKDF2FH2200AC	Digital Star Open Rack	With cable tray	2
OPENRACKDF4FH2200A0	Digital Star Open Rack	Without any device	4
OPENRACKDF4FH2200AG	Digital Star Open Rack	With PVC guide for cables	4
OPENRACKDF4FH2200AC	Digital Star Open Rack	With cable tray	4

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Wiring solutions

A reliable connection system for optimizing the density of copper networks from the exchanges to the subscriber's premises

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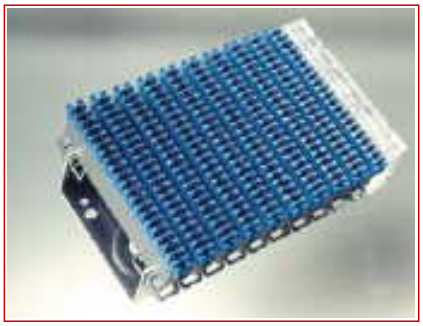
COMPAX Modular terminal block 128 pairs

- Modularity,
- Easy access to each pair,
- Quick connection,
- IDC connectic.

Description



Function :

Used with chassis on main frames, or without on U shape wall mounted frames, they realize the connection between switching equipment and distribution side terminal blocks.

All cabling interventions are realized on the front side. Disconnecting facility enables to isolate the line.

Description :

Disconnecting terminal blocks are made with BM modules, with or without chassis, a fixation kit and accessories.

Terminal blocks are fixed horizontally or vertically on the distribution frame. Cable ways between modules ease the cable and jumper access to their connecting contacts on the front.

Options :

Terminal blocks exist :

- In screened version (one screen between each pair),
- With earthing facility for the use of arrester magazine,
- With wire guide

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COMPAX Modular terminal block 128 pairs

Product List

	Nexans ref.	Country ref.	Name
		93331	Terminal block BM32 S, disconnecting, blue, 128 pairs
		93951	Terminal block BM32 S, disconnecting, blue, 128 pairs + label holder
		93820	Terminal block BM32 S, disconnecting, blue, 128 pairs without chassis
		93806	Terminal block BM32 S, disconnecting, blue, 128 pairs without chassis + label holder

= Make to order, = Make to stock

Selling delivery information

For other capacities (56, 64, 104 or 112 pairs) : please contact us.

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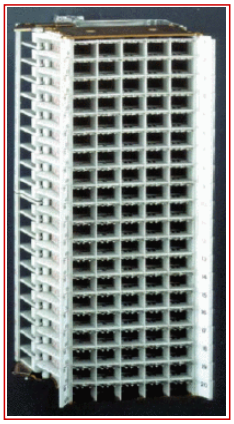
TC 80 base 5

- Numerous capacities from 10 to 1000 pairs,
- Ease of use : connection of the jumpers and insertion of the protection modules on front panel, and connection of the cables by the rear panel.

Description



Function

The TC 80 protective cable termination was developed for the connection of cables and protection of equipment and people. It is used in public or private incoming distribution frames on low frequency or PCM circuits.

Protection and electrical continuity are provided for each pair by a module.

Description

They are composed of:

- An aluminium channel member onto which the connection block(s) are fixed,
- Blocks composed of 5-pair strips,
- Two label-holders per block
- The strips are used for connection of the cable and of the jumpers to double self-strip contacts or double wrapping pins.

They take the protection, continuity, or looping modules. Protection is catered for by high-current lightning arresters, inserted into the module. All the earth circuits of the biscuits are connected together and to the channel.

Standards

National NF C 20-619; NF C 20-703; NF C 20-706; NF C 20-711; NF C 93-024

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TC 80 base 5

Characteristics

Electrical characteristics	
Dielectric strength	7.5 kV/mm
Ohmical resistance of the insulation	31000 MOhm.km
Charging current max.	5000.0 A/km

Product List

=Make to order, =Make to stock

Nexans ref.	Name	Number of pairs	Frequency type	Type of jumper wires
10074963	TC 80 - 10 - M - IDC/IDC	10	PCM	IDC
10074985	TC 80 - 20 - B - IDC/IDC	20	Low	IDC
10074973	TC 80 - 20 - M - IDC/IDC	20	PCM	IDC
10074986	TC 80 - 30 - B - IDC/IDC	30	Low	IDC
10074974	TC 80 - 30 - M - WRAP/WRAP	30	PCM	Wrapping
10074895	TC 80 - 50 - B - IDC/IDC	50	Low	IDC
10077159	TC 80 - 50 - M - IDC/IDC	50	PCM	IDC
10074894	TC 80 - 50 - B - WRAP/WRAP	50	Low	Wrapping
10074987	TC 80 - 60 - B - IDC/IDC	60	Low	IDC
10074975	TC 80 - 60 - M - WRAP/WRAP	60	PCM	Wrapping
10074885	TC 80 - 100 - B - IDC/IDC	100	Low	IDC
10074817	TC 80 - 100 - M - IDC/IDC	100	PCM	IDC
10074881	TC 80 - 100 - B - WRAP/WRAP	100	Low	Wrapping

= Make to order, = Make to stock

Selling delivery information

For capacities from 100 to 1000 pairs , please contact us.

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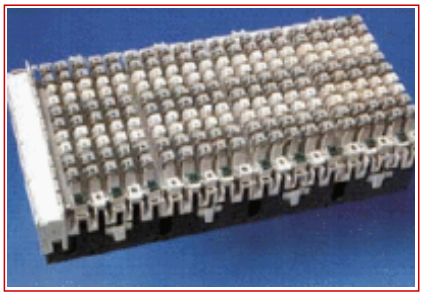
TFSR outdoor wiring block

- High reliability : cable and jumper connection by IDC contact protected by grease,
- Ease of use : simple and rapid connection of the jumpers by push-connectors with no special tool,
- Very good resistance to the saline mist test and to humidity,
- Suitable for all types of container.

Description



Function

The TFSR cable head is designed to be fitted in cross-connect cabinets or boxes of public and private networks.

It is used to make the connections between multi-pair transmission cables and the jumper distribution system.

It is made secure both at front and rear, and it can be installed in any climatic environment.

Components

The TFSR cable head is composed of :

- A chassis,
- Connection blocks with 25-pair push-connectors,
- A label holder,
- Accessories.

At the rear :

- The OSA 2 and 3 tools are used for connecting the wires of multi-pair cables to the IDC contact. Reliability is achieved by the provision of a greased cap which encloses the connection pins in rows of 5 pairs.

At the front :

- Connection of the jumpers by simple thumb pressure on the push-connector.

Standards

National NF C 20-711

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TFSR outdoor wiring block

Characteristics

Dimensional characteristics	
Width	142 mm
Number of pairs	100
Height	74 mm
Depth	265 mm

Product List

Nexans ref.	Name
10077400	TFSR cable head - 100 pairs
10076837	TFSR cable head without chassis - 100 pairs

= Make to order, = Make to stock

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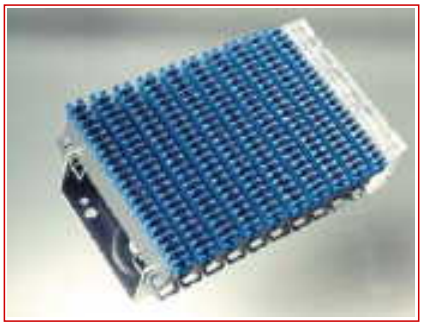
COMPAX Modular terminal block 50/100 pairs

- Modularity,
- Easy access to lines on thefront,
- Quick connection,
- Protection facility,
- High density,
- IDC connectic

Description



Function

Used with a chassis on main frames or without on U shape wall mounted frames, they realize the connection lines and the jumpers coming from the 128 pair terminal blocks. All cabling and protection interventions are done on the front. 10 lines are simultaneously protected through a gas arrester cartridge.

Design

Terminal blocks are made with BMS2T disconnecting modules 10 pairs, with or without chassis, a label holder and a fixation accessories kit.

Cable ways between modules ease cable and jumper access to the connecting contacts on the front side.

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COMPAX Modular terminal block 50/100 pairs

Product List

Nexans ref.	Country ref.	Name	Number of pairs
	93318	BM. 32-10 S2T disc. Ter. Block 050 blue	50
	93319	BM. 32-10 S2T disc. Ter. Block 100 blue	100
	93804	BM. 32-10 S2T disc. Ter. Block without block mount frame 100 blue	100

= Make to order, = Make to stock

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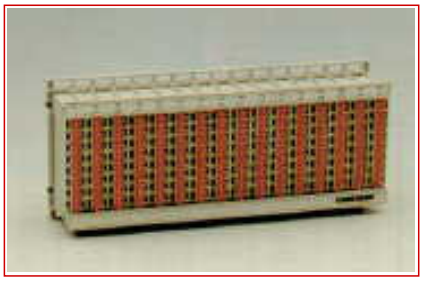
RC8W / RBDC8W

- Easy to install: pairs guided bywire-guide channels,
- Simple to use, cables andjumpers connected at the front,
- Economical.

Description



Function

Located on the horizontal part of the distributing frame, the wrapping terminating blocks enable the jumper connection of the cable head and the switching equipment.

The RC8W cut-off function enables the isolation and testing of the line.

Design

The wrapping terminating blocks consist of a support base with a wire bushing, to which are fixed the cut-off with double pin switches (RBDC8W) with a capacity of 8 pairs.

The connection is by wrapping on a 0.6 x 1.5 mm pin as per the NFC 93021 Standard. The allowable diameter of the wires must be between 0.4 and 0.6 mm. Located on either side of the terminating block, 2 label holders make it easier to identify the pairs.

A set of clamps enable the fixing to flat iron profile (maximum width : 30 mm).

Features

H2S resistance	Yes
Contact resistance	< 20 mW
Shock wave	3 kV (1.2/50 µs form)
Flash point	> 400°C
Oxygen index limit	> 30

Standards

National NF C 20-619; NF C 20-703; NF C 20-706; NF C 20-711

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RC8W / RBDC8W

Characteristics

Dimensional characteristics	
Depth	110 mm
Height	67 mm

Technical data

Number of pairs	Vertical pitch [mm]	Width [mm]	Number of screws	Approximate weight per piece [kg]
56	70	113	2	0.8
56	70	113	2	0.8
64	70	128	2	0.8
64	70	128	2	0.8
72	70	143	2	0.8
72	70	143	2	0.8
104	97.5	200	3	1
104	97.5	200	3	1
104	97.5	200	3	1
112	97.5	250	3	1.1
112	97.5	250	3	1.1
112	97.5	250	3	1.1
128	97.5	250	3	1.2
128	97.5	250	3	1.2
128	97.5	250	3	1.2
128	97.5	250	3	1.2
128	97.5	250	3	1.2

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COMPAX

The COMPAX range of connection modules constitues a complete reliable system for optimising the density of copper networks, from the exchange of the subscriber premises.

Description

Features

- Perfectly suited to the xDSL and to high speeds,
- Breaking and non-breaking module,
- Self-strip contacts for single and multi-strand wires, diameters from 0.32 to 0.80 mm, from 0,4 to 0,6 mm on cable earths connections (for 0.90 mm wire at cable end, please call),
- Connection possible on a given contact of 2 conductors with identical diameters,
- Rear or side cabling with channels,
- Minimum pitch between modules : 16 mm,
- Click fit on flat rail, U rail, or versatile rail
- Connection of the cable earths, Ø 0.4 and 0.5 mm, onto an earthing pin (S2T),
- Protective screen between each pair with earthing (S2TE),
- Certification Category 5

Design

The modules are supplied :

- In different colors to facilitate identification,
- In 8 or 10 pairs for connection or disconnection modules,
- In rear or side cabling with wire guides,
- In 2 heights (BM=Low module and EZ=High module),
- With or without earthing,
- With or without screening between the pairs.

The modules click onto various supports without distinction (U, flat or versatile rail). A range of accessories and protection devices complete the COMPAX line.

Dimensions (mm)

Description	Width	Height	Depth
Module BM without wire guides	135	51	16
Module EZ with one wire guide	135	69	17
Module EZ with 2 wide guides	135	69	18

Standards

International EN 50173; ISO/ IEC 11801

National France Telecom S32-20; NF C 93-024

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COMPAX

Characteristics

Electrical characteristics	
Dielectric strength core to core DC, min.	7.5 kV
Resistance of the insulation	1000000 MOhm
Maximal through resistance	5 mOhm
Transmission characteristics	
Crosstalk at 100 MHz (S2TE)	-52.0 dB
Crosstalk at 300 MHz (S2TE)	-40 dB
Crosstalk at 100 MHz (S, S2T)	-42 dB

Construction features for module type BM, colour blue

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type BM, colour green

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type BM, colour grey

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected

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Number of pairs	Connection application	Circuit breaker
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type BM, colour orange

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type BM, colour yellow

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ Q 32, colour blue

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected

Number of pairs	Connection application	Circuit breaker
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ Q 32, colour green

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ Q 32, colour grey

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ Q 32, colour orange

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

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Construction features for module type EZ Q 32, colour yellow

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ32, colour blue

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ32, colour green

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ32, colour grey

Number of pairs	Connection application	Circuit breaker
8	S	Connected

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Number of pairs	Connection application	Circuit breaker
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ32, colour orange

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ32, colour yellow

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ32 (G or D), colour blue

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected

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Number of pairs	Connection application	Circuit breaker
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ32 (G or D), colour green

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ32 (G or D), colour grey

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ32 (G or D), colour orange

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected

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Number of pairs	Connection application	Circuit breaker
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

Construction features for module type EZ32 (G or D), colour yellow

Number of pairs	Connection application	Circuit breaker
8	S	Connected
8	S	Disconnected
8	S2T	Connected
8	S2T	Disconnected
8	S2TE	Connected
8	S2TE	Disconnected
10	S	Connected
10	S	Disconnected
10	S2T	Connected
10	S2T	Disconnected
10	S2TE	Connected
10	S2TE	Disconnected

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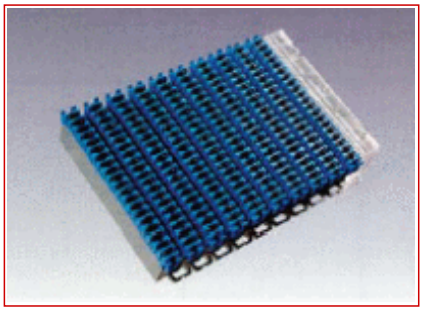
COMPAX Cross-connect cable head

- Modular
- High-density
- Fast Wiring
- Easy acces to each pair
- Possibility of protection
- IDC connectors

Description



Application

Used in cross-connect terminals for connecting the transport and distribution wires.

The cable heads attach directly to the frame of the unit.

The protection cardridges connect to the COMPAX S2T modules (fitted with ground contact).

Description

The cross-connect cable head consists of COMPAX BM S or S2T 10 pairs with or without cut-off modules (IDC technology) and the label older module.

Cables ways are included between the modules to bring the cable pairs and the jumpers to their connection points on the front.

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COMPAX Cross-connect cable head

Characteristics

Construction characteristics	
Colour	Blue
Dimensional characteristics	
Number of pairs	100
Height	52 mm
Length	186 mm
Width	135 mm

Product List

Nexans ref.	Country ref.	Name
	93822	TDC. BM. 32. S cut-off 100 blue
	93823	TDC. BM. 32. S non cut-off 100 blue
	93754	TDC. BM. 32. S2T cut-off 100 blue
	93755	TDC. BM. 32. S2T non cut-off 100 blue

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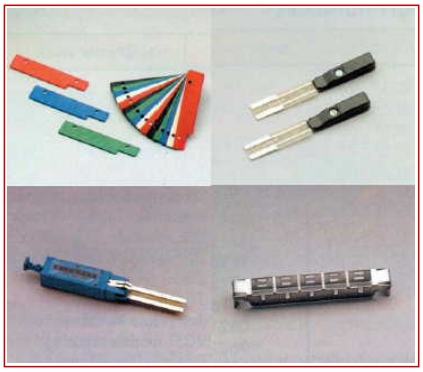
Accessories for RC5F/RC8F & RC8W/RBDC8W

NEXANS accessories are the indispensable complements to the NEXANS products, extending fonctionalities of marking, test and protection.

Description



Accessories for RC8W / RBDC8W :

The line cut-off is achieved by inserting a cut-off plug into the cut-off slots at the front of the terminating blocks. For each pair, it is possible to cut-off either both wires or just one, depending on the plug used.

The line tests are carried out by inserting the test plugs into the cut-off slots.

Accessories for RC5F / RC8F :

Line disconnection is obtained by inserting a disconnection plug (A) in slots located on the front part of the strips. It is possible to disconnect for each pair either both wires depending on the way the disconnection plug is inserted.

Line tests are performed by inserting test plugs (B) into the disconnection slot.

The fixation clamp (C) allows the assembly of strips on extrusion bars (two clamps per strip).

Lines can be protected individually by adding earthing clamps (D) and protection modules (E) on the RC5F strip. One earthing clamp allows to connect five protection modules.

Protection modules (E) are equipped with bipolar or tripolar 230V arresters. The test of the line can be done without removing the protection from the modules fitted with a test plug.

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Accessories for RC5F/RC8F & RC8W/RBDC8W

Product List

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Nexans ref.	Country ref.	Name	Function of the accessory
15853		Complementary module	RC8W / RBDC8W
12859		Cut-off plug Black	RC8W / RBDC8W
12860		Cut-off plug Blue	RC8W / RBDC8W
12858		Cut-off plug Green	RC8W / RBDC8W
12862		Cut-off plug Red	RC8W / RBDC8W
12861		Cut-off plug White	RC8W / RBDC8W
17132		Disconnection plug - Black	RC5F / RC8F
17129		Disconnection plug - Blue	RC5F / RC8F
17128		Disconnection plug - Green	RC5F / RC8F
17130		Disconnection plug - Red	RC5F / RC8F
17131		Disconnection plug - White	RC5F / RC8F
18916		Earthing clamp	RC5F / RC8F
9338		Equipped bipolar module	RC5F / RC8F
9337		Equipped bipolar module + test plug	RC5F / RC8F
9339		Equipped tripolar module	RC5F / RC8F
9340		Equipped tripolar module + test plug	RC5F / RC8F
	92470	Fixation clamp (pack of 10)	RC5F / RC8F
	92469	Fixation clamp (pack of 2)	RC8W / RBDC8W
	92470	Fixing stirrup - set of 10	RC8W / RBDC8W
	92469	Fixing stirrup - set of 2	RC5F / RC8F
	84566	Mounting kit RC8W & RBDC8W 56, 64 and 72 pairs (150 mm pitch)	RC8W / RBDC8W
	84623	Protection cover - lenght 110 mm (56 pairs)	RC8W / RBDC8W
	84624	Protection cover - lenght 125 mm (64 pairs)	RC8W / RBDC8W
	84625	Protection cover - lenght 140 mm (72 pairs)	RC8W / RBDC8W
11125		Protection cover - lenght 200 mm (104 pairs)	RC8W / RBDC8W
11138		Protection cover - lenght 250 mm (128 pairs)	RC8W / RBDC8W
	89691	Protection for RC8W (over-current)	RC8W / RBDC8W
21910		RBDC8W 8 pairs module	RC8W / RBDC8W
6212		RC5F module test plug	RC5F / RC8F
8762		RC8W 8 pairs module	RC8W / RBDC8W
1928		Test Plug	RC8W / RBDC8W
17184		Test plug	RC5F / RC8F
	89776	Test plug with 2 x 1 pair cords lenght 2 m -	RC8W / RBDC8W
6211		Test plug with cable	RC5F / RC8F

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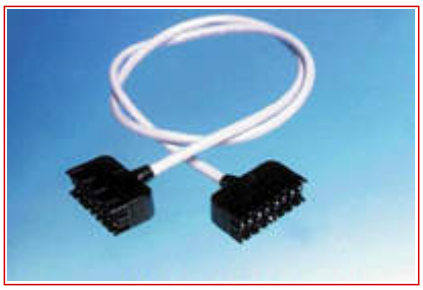
COMPAX patching cords

The cable enables patchingbetween COMPAXmodules.

All the cables are category 5and are available in lengthsto suit.

Description



Application

The patching cords provide an electrical connection between two points on a network distribution frame.

The ends of the cords are suited for the links to be made between two modules or between a module and active device on the network (Hub).

The cords can be used either for the BM and EZ unscreened (S or S2T type) modules for the unscreened cords, screened (S2TE type) modules for the screened cords.

Types of wiring

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COMPAX patching cords

Product List

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	Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
📞		93878100	CPX/CPX length 1000mm with 1 pairs 100ohms Straight	1000	Straight	1	100
📞		93878100	CPX/CPX length 1000mm with 1 pairs 100ohms Straight	1000	Straight	1	100
📞		93878100	CPX/CPX length 1000mm with 1 pairs 100ohms Straight	1000	Straight	1	100
📞		93878100	CPX/CPX length 1000mm with 1 pairs 100ohms Straight	1000	Straight	1	100
📞		93760100	CPX/CPX length 1000mm with 1 pairs 120ohms Straight	1000	Straight	1	120
📞		93775100	CPX/CPX length 1000mm with 1 pairs 120ohms Straight	1000	Straight	1	120
📞		93760100	CPX/CPX length 1000mm with 1 pairs 120ohms Straight	1000	Straight	1	120
📞		93775100	CPX/CPX length 1000mm with 1 pairs 120ohms Straight	1000	Straight	1	120
📞		93760100	CPX/CPX length 1000mm with 1 pairs 120ohms Straight	1000	Straight	1	120
📞		93775100	CPX/CPX length 1000mm with 1 pairs 120ohms Straight	1000	Straight	1	120
📞		93760100	CPX/CPX length 1000mm with 1 pairs 120ohms Straight	1000	Straight	1	120
📞		93775100	CPX/CPX length 1000mm with 1 pairs 120ohms Straight	1000	Straight	1	120
📞		93880100	CPX/CPX length 1000mm with 2 pairs 100ohms Straight	1000	Straight	2	100
📞		93888100	CPX/CPX length 1000mm with 2 pairs 100ohms Straight	1000	Straight	2	100
📞		93880100	CPX/CPX length 1000mm with 2 pairs 100ohms Straight	1000	Straight	2	100
📞		93888100	CPX/CPX length 1000mm with 2 pairs 100ohms Straight	1000	Straight	2	100
📞		93880100	CPX/CPX length 1000mm with 2 pairs 100ohms Straight	1000	Straight	2	100
📞		93888100	CPX/CPX length 1000mm with 2 pairs 100ohms Straight	1000	Straight	2	100
📞		93880100	CPX/CPX length 1000mm with 2 pairs 100ohms Straight	1000	Straight	2	100
📞		93888100	CPX/CPX length 1000mm with 2 pairs 100ohms Straight	1000	Straight	2	100
📞		93763100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120
📞		93769100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120
📞		93779100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120
📞		93763100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120
📞		93769100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120
📞		93779100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120

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COMPAX patching cords

	Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
📞		93763100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120
📞		93769100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120
📞		93779100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120
📞		93763100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120
📞		93769100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120
📞		93779100	CPX/CPX length 1000mm with 2 pairs 120ohms Straight	1000	Straight	2	120
📞		93882100	CPX/CPX length 1000mm with 4 pairs 100ohms Straight	1000	Straight	4	100
📞		93890100	CPX/CPX length 1000mm with 4 pairs 100ohms Straight	1000	Straight	4	100
📞		93882100	CPX/CPX length 1000mm with 4 pairs 100ohms Straight	1000	Straight	4	100
📞		93890100	CPX/CPX length 1000mm with 4 pairs 100ohms Straight	1000	Straight	4	100
📞		93882100	CPX/CPX length 1000mm with 4 pairs 100ohms Straight	1000	Straight	4	100
📞		93890100	CPX/CPX length 1000mm with 4 pairs 100ohms Straight	1000	Straight	4	100
📞		93882100	CPX/CPX length 1000mm with 4 pairs 100ohms Straight	1000	Straight	4	100
📞		93890100	CPX/CPX length 1000mm with 4 pairs 100ohms Straight	1000	Straight	4	100
📞		93766100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
📞		93772100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
📞		93783100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
📞		93766100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
📞		93772100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
📞		93783100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
📞		93766100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
📞		93772100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
📞		93783100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
📞		93766100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
📞		93772100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
📞		93783100	CPX/CPX length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120

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COMPAX patching cords

Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
	9387850	CPX/CPX length 500mm with 1 pairs 100ohms Straight	500	Straight	1	100
	9387850	CPX/CPX length 500mm with 1 pairs 100ohms Straight	500	Straight	1	100
	9387850	CPX/CPX length 500mm with 1 pairs 100ohms Straight	500	Straight	1	100
	9387850	CPX/CPX length 500mm with 1 pairs 100ohms Straight	500	Straight	1	100
	9376050	CPX/CPX length 500mm with 1 pairs 120ohms Straight	500	Straight	1	120
	9377550	CPX/CPX length 500mm with 1 pairs 120ohms Straight	500	Straight	1	120
	9376050	CPX/CPX length 500mm with 1 pairs 120ohms Straight	500	Straight	1	120
	9377550	CPX/CPX length 500mm with 1 pairs 120ohms Straight	500	Straight	1	120
	9376050	CPX/CPX length 500mm with 1 pairs 120ohms Straight	500	Straight	1	120
	9377550	CPX/CPX length 500mm with 1 pairs 120ohms Straight	500	Straight	1	120
	9376050	CPX/CPX length 500mm with 1 pairs 120ohms Straight	500	Straight	1	120
	9377550	CPX/CPX length 500mm with 1 pairs 120ohms Straight	500	Straight	1	120
	9388050	CPX/CPX length 500mm with 2 pairs 100ohms Straight	500	Straight	2	100
	9388850	CPX/CPX length 500mm with 2 pairs 100ohms Straight	500	Straight	2	100
	9388050	CPX/CPX length 500mm with 2 pairs 100ohms Straight	500	Straight	2	100
	9388850	CPX/CPX length 500mm with 2 pairs 100ohms Straight	500	Straight	2	100
	9388050	CPX/CPX length 500mm with 2 pairs 100ohms Straight	500	Straight	2	100
	9388850	CPX/CPX length 500mm with 2 pairs 100ohms Straight	500	Straight	2	100
	9388050	CPX/CPX length 500mm with 2 pairs 100ohms Straight	500	Straight	2	100
	9388850	CPX/CPX length 500mm with 2 pairs 100ohms Straight	500	Straight	2	100
	9376350	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120
	9376950	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120
	9377950	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120
	9376350	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120
	9376950	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120
	9377950	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120

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COMPAX patching cords

Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
📞	9376350	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120
📞	9376950	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120
📞	9377950	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120
📞	9376350	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120
📞	9376950	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120
📞	9377950	CPX/CPX length 500mm with 2 pairs 120ohms Straight	500	Straight	2	120
📞	9388250	CPX/CPX length 500mm with 4 pairs 100ohms Straight	500	Straight	4	100
📞	9389050	CPX/CPX length 500mm with 4 pairs 100ohms Straight	500	Straight	4	100
📞	9388250	CPX/CPX length 500mm with 4 pairs 100ohms Straight	500	Straight	4	100
📞	9389050	CPX/CPX length 500mm with 4 pairs 100ohms Straight	500	Straight	4	100
📞	9388250	CPX/CPX length 500mm with 4 pairs 100ohms Straight	500	Straight	4	100
📞	9389050	CPX/CPX length 500mm with 4 pairs 100ohms Straight	500	Straight	4	100
📞	9388250	CPX/CPX length 500mm with 4 pairs 100ohms Straight	500	Straight	4	100
📞	9389050	CPX/CPX length 500mm with 4 pairs 100ohms Straight	500	Straight	4	100
📞	9376650	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
📞	9377250	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
📞	9378350	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
📞	9376650	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
📞	9377250	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
📞	9378350	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
📞	9376650	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
📞	9377250	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
📞	9378350	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
📞	9376650	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
📞	9377250	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
📞	9378350	CPX/CPX length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120

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COMPAX patching cords

	Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
📞		9387875	CPX/CPX length 750mm with 1 pairs 100ohms Straight	750	Straight	1	100
📞		9387875	CPX/CPX length 750mm with 1 pairs 100ohms Straight	750	Straight	1	100
📞		9387875	CPX/CPX length 750mm with 1 pairs 100ohms Straight	750	Straight	1	100
📞		9387875	CPX/CPX length 750mm with 1 pairs 100ohms Straight	750	Straight	1	100
📞		9376075	CPX/CPX length 750mm with 1 pairs 120ohms Straight	750	Straight	1	120
📞		9377575	CPX/CPX length 750mm with 1 pairs 120ohms Straight	750	Straight	1	120
📞		9376075	CPX/CPX length 750mm with 1 pairs 120ohms Straight	750	Straight	1	120
📞		9377575	CPX/CPX length 750mm with 1 pairs 120ohms Straight	750	Straight	1	120
📞		9376075	CPX/CPX length 750mm with 1 pairs 120ohms Straight	750	Straight	1	120
📞		9377575	CPX/CPX length 750mm with 1 pairs 120ohms Straight	750	Straight	1	120
📞		9376075	CPX/CPX length 750mm with 1 pairs 120ohms Straight	750	Straight	1	120
📞		9377575	CPX/CPX length 750mm with 1 pairs 120ohms Straight	750	Straight	1	120
📞		9388075	CPX/CPX length 750mm with 2 pairs 100ohms Straight	750	Straight	2	100
📞		9388875	CPX/CPX length 750mm with 2 pairs 100ohms Straight	750	Straight	2	100
📞		9388075	CPX/CPX length 750mm with 2 pairs 100ohms Straight	750	Straight	2	100
📞		9388875	CPX/CPX length 750mm with 2 pairs 100ohms Straight	750	Straight	2	100
📞		9388075	CPX/CPX length 750mm with 2 pairs 100ohms Straight	750	Straight	2	100
📞		9388875	CPX/CPX length 750mm with 2 pairs 100ohms Straight	750	Straight	2	100
📞		9388075	CPX/CPX length 750mm with 2 pairs 100ohms Straight	750	Straight	2	100
📞		9388875	CPX/CPX length 750mm with 2 pairs 100ohms Straight	750	Straight	2	100
📞		9376375	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120
📞		9376975	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120
📞		9377975	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120
📞		9376375	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120
📞		9376975	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120
📞		9377975	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120

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COMPAX patching cords

	Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
📞		9376375	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120
📞		9376975	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120
📞		9377975	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120
📞		9376375	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120
📞		9376975	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120
📞		9377975	CPX/CPX length 750mm with 2 pairs 120ohms Straight	750	Straight	2	120
📞		9388275	CPX/CPX length 750mm with 4 pairs 100ohms Straight	750	Straight	4	100
📞		9389075	CPX/CPX length 750mm with 4 pairs 100ohms Straight	750	Straight	4	100
📞		9388275	CPX/CPX length 750mm with 4 pairs 100ohms Straight	750	Straight	4	100
📞		9389075	CPX/CPX length 750mm with 4 pairs 100ohms Straight	750	Straight	4	100
📞		9388275	CPX/CPX length 750mm with 4 pairs 100ohms Straight	750	Straight	4	100
📞		9389075	CPX/CPX length 750mm with 4 pairs 100ohms Straight	750	Straight	4	100
📞		9388275	CPX/CPX length 750mm with 4 pairs 100ohms Straight	750	Straight	4	100
📞		9389075	CPX/CPX length 750mm with 4 pairs 100ohms Straight	750	Straight	4	100
📞		9376675	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
📞		9377275	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
📞		9378375	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
📞		9376675	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
📞		9377275	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
📞		9378375	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
📞		9376675	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
📞		9377275	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
📞		9378375	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
📞		9376675	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
📞		9377275	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
📞		9378375	CPX/CPX length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120

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	Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
📞		89340100	CPX/RJ45 length 1000mm with 1 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	1	100
📞		89340100	CPX/RJ45 length 1000mm with 1 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	1	100
📞		89340100	CPX/RJ45 length 1000mm with 1 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	1	100
📞		89340100	CPX/RJ45 length 1000mm with 1 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	1	100
📞		46687100	CPX/RJ45 length 1000mm with 1 pairs 120ohms	1000		1	120
📞		46687100	CPX/RJ45 length 1000mm with 1 pairs 120ohms	1000		1	120
📞		46687100	CPX/RJ45 length 1000mm with 1 pairs 120ohms	1000		1	120
📞		46687100	CPX/RJ45 length 1000mm with 1 pairs 120ohms	1000		1	120
📞		89343100	CPX/RJ45 length 1000mm with 1 pairs 120ohms Corel	1000	Corel	1	120
📞		89343100	CPX/RJ45 length 1000mm with 1 pairs 120ohms Corel	1000	Corel	1	120
📞		89343100	CPX/RJ45 length 1000mm with 1 pairs 120ohms Corel	1000	Corel	1	120
📞		89343100	CPX/RJ45 length 1000mm with 1 pairs 120ohms Corel	1000	Corel	1	120
📞		89538100	CPX/RJ45 length 1000mm with 2 pairs 100ohms	1000		2	100
📞		89538100	CPX/RJ45 length 1000mm with 2 pairs 100ohms	1000		2	100
📞		89538100	CPX/RJ45 length 1000mm with 2 pairs 100ohms	1000		2	100
📞		89538100	CPX/RJ45 length 1000mm with 2 pairs 100ohms	1000		2	100
📞		89344100	CPX/RJ45 length 1000mm with 2 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	2	100
📞		89345100	CPX/RJ45 length 1000mm with 2 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	2	100
📞		89344100	CPX/RJ45 length 1000mm with 2 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	2	100
📞		89345100	CPX/RJ45 length 1000mm with 2 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	2	100
📞		89344100	CPX/RJ45 length 1000mm with 2 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	2	100
📞		89345100	CPX/RJ45 length 1000mm with 2 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	2	100
📞		89344100	CPX/RJ45 length 1000mm with 2 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	2	100
📞		89345100	CPX/RJ45 length 1000mm with 2 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	2	100
📞		46688100	CPX/RJ45 length 1000mm with 2 pairs 120ohms	1000		2	120
📞		46688100	CPX/RJ45 length 1000mm with 2 pairs 120ohms	1000		2	120

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Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
	46688100	CPX/RJ45 length 1000mm with 2 pairs 120ohms	1000		2	120
	46688100	CPX/RJ45 length 1000mm with 2 pairs 120ohms	1000		2	120
	89352100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Corel	1000	Corel	2	120
	89353100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Corel	1000	Corel	2	120
	89352100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Corel	1000	Corel	2	120
	89353100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Corel	1000	Corel	2	120
	89352100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Corel	1000	Corel	2	120
	89353100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Corel	1000	Corel	2	120
	89352100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Corel	1000	Corel	2	120
	89353100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Corel	1000	Corel	2	120
	89023100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Ethernet	1000	Ethernet	2	120
	89023100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Ethernet	1000	Ethernet	2	120
	89023100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Ethernet	1000	Ethernet	2	120
	89023100	CPX/RJ45 length 1000mm with 2 pairs 120ohms Ethernet	1000	Ethernet	2	120
	89361100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	4	100
	89362100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	4	100
	89361100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	4	100
	89362100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	4	100
	89361100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	4	100
	89362100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	4	100
	89361100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	4	100
	89362100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568A	1000	EIA / TIA568A	4	100
	89368100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568B	1000	EIA / TIA568B	4	100
	89368100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568B	1000	EIA / TIA568B	4	100
	89368100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568B	1000	EIA / TIA568B	4	100
	89368100	CPX/RJ45 length 1000mm with 4 pairs 100ohms EIA / TIA568B	1000	EIA / TIA568B	4	100

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Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
☎	93790100	CPX/RJ45 length 1000mm with 4 pairs 120ohms	1000		4	120
☎	93790100	CPX/RJ45 length 1000mm with 4 pairs 120ohms	1000		4	120
☎	93790100	CPX/RJ45 length 1000mm with 4 pairs 120ohms	1000		4	120
☎	93790100	CPX/RJ45 length 1000mm with 4 pairs 120ohms	1000		4	120
☎	89373100	CPX/RJ45 length 1000mm with 4 pairs 120ohms BCS	1000	BCS	4	120
☎	89373100	CPX/RJ45 length 1000mm with 4 pairs 120ohms BCS	1000	BCS	4	120
☎	89373100	CPX/RJ45 length 1000mm with 4 pairs 120ohms BCS	1000	BCS	4	120
☎	89373100	CPX/RJ45 length 1000mm with 4 pairs 120ohms BCS	1000	BCS	4	120
☎	89370100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Corel	1000	Corel	4	120
☎	89370100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Corel	1000	Corel	4	120
☎	89370100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Corel	1000	Corel	4	120
☎	89370100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Corel	1000	Corel	4	120
☎	46194100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	89032100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	89035100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	89369100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	46194100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	89032100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	89035100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	89369100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	46194100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	89032100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	89035100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	89369100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	46194100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
☎	89032100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120

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Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
	89035100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
	89369100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Crossed	1000	Crossed	4	120
	93787100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
	93787100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
	93787100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
	93787100	CPX/RJ45 length 1000mm with 4 pairs 120ohms Straight	1000	Straight	4	120
	8934050	CPX/RJ45 length 500mm with 1 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	1	100
	8934050	CPX/RJ45 length 500mm with 1 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	1	100
	8934050	CPX/RJ45 length 500mm with 1 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	1	100
	8934050	CPX/RJ45 length 500mm with 1 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	1	100
	4668750	CPX/RJ45 length 500mm with 1 pairs 120ohms	500		1	120
	4668750	CPX/RJ45 length 500mm with 1 pairs 120ohms	500		1	120
	4668750	CPX/RJ45 length 500mm with 1 pairs 120ohms	500		1	120
	4668750	CPX/RJ45 length 500mm with 1 pairs 120ohms	500		1	120
	8934350	CPX/RJ45 length 500mm with 1 pairs 120ohms Corel	500	Corel	1	120
	8934350	CPX/RJ45 length 500mm with 1 pairs 120ohms Corel	500	Corel	1	120
	8934350	CPX/RJ45 length 500mm with 1 pairs 120ohms Corel	500	Corel	1	120
	8934350	CPX/RJ45 length 500mm with 1 pairs 120ohms Corel	500	Corel	1	120
	8953850	CPX/RJ45 length 500mm with 2 pairs 100ohms	500		2	100
	8953850	CPX/RJ45 length 500mm with 2 pairs 100ohms	500		2	100
	8953850	CPX/RJ45 length 500mm with 2 pairs 100ohms	500		2	100
	8953850	CPX/RJ45 length 500mm with 2 pairs 100ohms	500		2	100
	8934450	CPX/RJ45 length 500mm with 2 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	2	100
	8934550	CPX/RJ45 length 500mm with 2 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	2	100
	8934450	CPX/RJ45 length 500mm with 2 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	2	100
	8934550	CPX/RJ45 length 500mm with 2 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	2	100

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	Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
📞		8934450	CPX/RJ45 length 500mm with 2 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	2	100
📞		8934550	CPX/RJ45 length 500mm with 2 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	2	100
📞		8934450	CPX/RJ45 length 500mm with 2 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	2	100
📞		8934550	CPX/RJ45 length 500mm with 2 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	2	100
📞		4668850	CPX/RJ45 length 500mm with 2 pairs 120ohms	500		2	120
📞		4668850	CPX/RJ45 length 500mm with 2 pairs 120ohms	500		2	120
📞		4668850	CPX/RJ45 length 500mm with 2 pairs 120ohms	500		2	120
📞		4668850	CPX/RJ45 length 500mm with 2 pairs 120ohms	500		2	120
📞		8935250	CPX/RJ45 length 500mm with 2 pairs 120ohms Corel	500	Corel	2	120
📞		8935350	CPX/RJ45 length 500mm with 2 pairs 120ohms Corel	500	Corel	2	120
📞		8935250	CPX/RJ45 length 500mm with 2 pairs 120ohms Corel	500	Corel	2	120
📞		8935350	CPX/RJ45 length 500mm with 2 pairs 120ohms Corel	500	Corel	2	120
📞		8935250	CPX/RJ45 length 500mm with 2 pairs 120ohms Corel	500	Corel	2	120
📞		8935350	CPX/RJ45 length 500mm with 2 pairs 120ohms Corel	500	Corel	2	120
📞		8935250	CPX/RJ45 length 500mm with 2 pairs 120ohms Corel	500	Corel	2	120
📞		8935350	CPX/RJ45 length 500mm with 2 pairs 120ohms Corel	500	Corel	2	120
📞		8902350	CPX/RJ45 length 500mm with 2 pairs 120ohms Ethernet	500	Ethernet	2	120
📞		8902350	CPX/RJ45 length 500mm with 2 pairs 120ohms Ethernet	500	Ethernet	2	120
📞		8902350	CPX/RJ45 length 500mm with 2 pairs 120ohms Ethernet	500	Ethernet	2	120
📞		8902350	CPX/RJ45 length 500mm with 2 pairs 120ohms Ethernet	500	Ethernet	2	120
📞		8936150	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	4	100
📞		8936250	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	4	100
📞		8936150	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	4	100
📞		8936250	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	4	100
📞		8936150	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	4	100
📞		8936250	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	4	100

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Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
	8936150	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	4	100
	8936250	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568A	500	EIA / TIA568A	4	100
	8936850	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568B	500	EIA / TIA568B	4	100
	8936850	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568B	500	EIA / TIA568B	4	100
	8936850	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568B	500	EIA / TIA568B	4	100
	8936850	CPX/RJ45 length 500mm with 4 pairs 100ohms EIA / TIA568B	500	EIA / TIA568B	4	100
	9379050	CPX/RJ45 length 500mm with 4 pairs 120ohms	500		4	120
	9379050	CPX/RJ45 length 500mm with 4 pairs 120ohms	500		4	120
	9379050	CPX/RJ45 length 500mm with 4 pairs 120ohms	500		4	120
	9379050	CPX/RJ45 length 500mm with 4 pairs 120ohms	500		4	120
	8937350	CPX/RJ45 length 500mm with 4 pairs 120ohms BCS	500	BCS	4	120
	8937350	CPX/RJ45 length 500mm with 4 pairs 120ohms BCS	500	BCS	4	120
	8937350	CPX/RJ45 length 500mm with 4 pairs 120ohms BCS	500	BCS	4	120
	8937350	CPX/RJ45 length 500mm with 4 pairs 120ohms BCS	500	BCS	4	120
	8937050	CPX/RJ45 length 500mm with 4 pairs 120ohms Corel	500	Corel	4	120
	8937050	CPX/RJ45 length 500mm with 4 pairs 120ohms Corel	500	Corel	4	120
	8937050	CPX/RJ45 length 500mm with 4 pairs 120ohms Corel	500	Corel	4	120
	8937050	CPX/RJ45 length 500mm with 4 pairs 120ohms Corel	500	Corel	4	120
	4619450	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8903250	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8903550	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8936950	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	4619450	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8903250	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8903550	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8936950	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120

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COMPAX patching cords

Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
	4619450	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8903250	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8903550	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8936950	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	4619450	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8903250	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8903550	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	8936950	CPX/RJ45 length 500mm with 4 pairs 120ohms Crossed	500	Crossed	4	120
	9378750	CPX/RJ45 length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
	9378750	CPX/RJ45 length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
	9378750	CPX/RJ45 length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
	9378750	CPX/RJ45 length 500mm with 4 pairs 120ohms Straight	500	Straight	4	120
	8934075	CPX/RJ45 length 750mm with 1 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	1	100
	8934075	CPX/RJ45 length 750mm with 1 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	1	100
	8934075	CPX/RJ45 length 750mm with 1 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	1	100
	8934075	CPX/RJ45 length 750mm with 1 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	1	100
	4668775	CPX/RJ45 length 750mm with 1 pairs 120ohms	750		1	120
	4668775	CPX/RJ45 length 750mm with 1 pairs 120ohms	750		1	120
	4668775	CPX/RJ45 length 750mm with 1 pairs 120ohms	750		1	120
	4668775	CPX/RJ45 length 750mm with 1 pairs 120ohms	750		1	120
	8934375	CPX/RJ45 length 750mm with 1 pairs 120ohms Corel	750	Corel	1	120
	8934375	CPX/RJ45 length 750mm with 1 pairs 120ohms Corel	750	Corel	1	120
	8934375	CPX/RJ45 length 750mm with 1 pairs 120ohms Corel	750	Corel	1	120
	8934375	CPX/RJ45 length 750mm with 1 pairs 120ohms Corel	750	Corel	1	120
	8953875	CPX/RJ45 length 750mm with 2 pairs 100ohms	750		2	100
	8953875	CPX/RJ45 length 750mm with 2 pairs 100ohms	750		2	100

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COMPAX patching cords

	Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
📞		8953875	CPX/RJ45 length 750mm with 2 pairs 100ohms	750		2	100
📞		8953875	CPX/RJ45 length 750mm with 2 pairs 100ohms	750		2	100
📞		8934475	CPX/RJ45 length 750mm with 2 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	2	100
📞		8934575	CPX/RJ45 length 750mm with 2 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	2	100
📞		8934475	CPX/RJ45 length 750mm with 2 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	2	100
📞		8934575	CPX/RJ45 length 750mm with 2 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	2	100
📞		8934475	CPX/RJ45 length 750mm with 2 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	2	100
📞		8934575	CPX/RJ45 length 750mm with 2 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	2	100
📞		8934475	CPX/RJ45 length 750mm with 2 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	2	100
📞		8934575	CPX/RJ45 length 750mm with 2 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	2	100
📞		4668875	CPX/RJ45 length 750mm with 2 pairs 120ohms	750		2	120
📞		4668875	CPX/RJ45 length 750mm with 2 pairs 120ohms	750		2	120
📞		4668875	CPX/RJ45 length 750mm with 2 pairs 120ohms	750		2	120
📞		4668875	CPX/RJ45 length 750mm with 2 pairs 120ohms	750		2	120
📞		8935275	CPX/RJ45 length 750mm with 2 pairs 120ohms Corel	750	Corel	2	120
📞		8935375	CPX/RJ45 length 750mm with 2 pairs 120ohms Corel	750	Corel	2	120
📞		8935275	CPX/RJ45 length 750mm with 2 pairs 120ohms Corel	750	Corel	2	120
📞		8935375	CPX/RJ45 length 750mm with 2 pairs 120ohms Corel	750	Corel	2	120
📞		8935275	CPX/RJ45 length 750mm with 2 pairs 120ohms Corel	750	Corel	2	120
📞		8935375	CPX/RJ45 length 750mm with 2 pairs 120ohms Corel	750	Corel	2	120
📞		8935275	CPX/RJ45 length 750mm with 2 pairs 120ohms Corel	750	Corel	2	120
📞		8935375	CPX/RJ45 length 750mm with 2 pairs 120ohms Corel	750	Corel	2	120
📞		8902375	CPX/RJ45 length 750mm with 2 pairs 120ohms Ethernet	750	Ethernet	2	120
📞		8902375	CPX/RJ45 length 750mm with 2 pairs 120ohms Ethernet	750	Ethernet	2	120
📞		8902375	CPX/RJ45 length 750mm with 2 pairs 120ohms Ethernet	750	Ethernet	2	120
📞		8902375	CPX/RJ45 length 750mm with 2 pairs 120ohms Ethernet	750	Ethernet	2	120

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COMPAX patching cords

Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
	8936175	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	4	100
	8936275	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	4	100
	8936175	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	4	100
	8936275	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	4	100
	8936175	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	4	100
	8936275	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	4	100
	8936175	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	4	100
	8936275	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568A	750	EIA / TIA568A	4	100
	8936875	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568B	750	EIA / TIA568B	4	100
	8936875	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568B	750	EIA / TIA568B	4	100
	8936875	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568B	750	EIA / TIA568B	4	100
	8936875	CPX/RJ45 length 750mm with 4 pairs 100ohms EIA / TIA568B	750	EIA / TIA568B	4	100
	9379075	CPX/RJ45 length 750mm with 4 pairs 120ohms	750		4	120
	9379075	CPX/RJ45 length 750mm with 4 pairs 120ohms	750		4	120
	9379075	CPX/RJ45 length 750mm with 4 pairs 120ohms	750		4	120
	9379075	CPX/RJ45 length 750mm with 4 pairs 120ohms	750		4	120
	8937375	CPX/RJ45 length 750mm with 4 pairs 120ohms BCS	750	BCS	4	120
	8937375	CPX/RJ45 length 750mm with 4 pairs 120ohms BCS	750	BCS	4	120
	8937375	CPX/RJ45 length 750mm with 4 pairs 120ohms BCS	750	BCS	4	120
	8937375	CPX/RJ45 length 750mm with 4 pairs 120ohms BCS	750	BCS	4	120
	8937075	CPX/RJ45 length 750mm with 4 pairs 120ohms Corel	750	Corel	4	120
	8937075	CPX/RJ45 length 750mm with 4 pairs 120ohms Corel	750	Corel	4	120
	8937075	CPX/RJ45 length 750mm with 4 pairs 120ohms Corel	750	Corel	4	120
	8937075	CPX/RJ45 length 750mm with 4 pairs 120ohms Corel	750	Corel	4	120
	4619475	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	8903275	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120

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COMPAX patching cords

Nexans ref.	Country ref.	Name	Length (mm)	Wiring type	Number of pairs	Characteristic impedance (Ohm)
	8903575	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	8936975	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	4619475	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	8903275	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	8903575	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	8936975	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	4619475	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	8903275	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	8903575	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	8936975	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	4619475	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	8903275	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	8903575	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	8936975	CPX/RJ45 length 750mm with 4 pairs 120ohms Crossed	750	Crossed	4	120
	9378775	CPX/RJ45 length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
	9378775	CPX/RJ45 length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
	9378775	CPX/RJ45 length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
	9378775	CPX/RJ45 length 750mm with 4 pairs 120ohms Straight	750	Straight	4	120
	89553320	Special cords 2 CPX/ 1RJ 45 UTP 2 x 1p 100 Ohms	3200		2	100
	89553520	Special cords 2 CPX/ 1RJ 45 UTP 2 x 1p 100 Ohms	5200		2	100
	89551320	Special cords 4 CPX/ 1RJ 45 UTP 4 x 1p 100 Ohms	3200		4	100
	89551520	Special cords 4 CPX/ 1RJ 45 UTP 4 x 1p 100 Ohms	5200		4	100
	89505030	Special cords CPX/ 1RJ 45 4 CTS 1p	300		1	100

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RC5F / RC8F

- Easy installation : pairs guided by grooves
- Quick cabling connection by IDC techniques,
- Simple access : connection of cables and jumpers on the front side.

Description

Function

The IDC strips are located on the horizontal side of the main distribution frame. They allow the connection of the jumpers coming from the terminal block to the cable of the switching equipments.

The disconnection fonction allows to isolate the line during the checking procedure.

Furthermore the RC5F strip situated on the vertical side of the main distribution frames can be used as a terminal block.

Design

The IDC strips consists of a supporting base with grommet. A set of fixation clamps is provided for attachment to a flat bar (maximum width : 30mm). Disconnecting strips with a capacity of 5 or 8 pairs are mounted on the base. Two label holders situated on either side of the strip faciliate the identification of pairs. Connections are made by means of Insulation Displacement Contacts (IDC) in accordance with the NFC 93024 standard. Double-slot terminals make Y-type connections possible without disconnecting the line. Acceptable diameters for conductors are 0.4 mm to 0.8 mm. The RC5F strip can be equipped with individual protection modules. The ground connections of the protection devices are grouped on an earthing clamp per row of 5 pairs.

Characteristics

Resistance H2S	Yes
Contact resistance	< 30mW
Shock wave	3kV (form 1,2/50µs)
Flash point	> 400°C
Oxygen limit index	> 30

Standards

National NF C 20-619; NF C 20-703; NF C 20-706; NF C 20-711

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RC5F / RC8F

Characteristics

Dimensional characteristics	
Horizontal pitch	34 mm

Product List

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Nexans ref.	Name	Number of pairs
6204	RC5F 100 pairs	100
5727	RC5F 104 pairs	104
1943	RC5F 112 pairs	112
5728	RC5F 128 pairs	128
6201	RC5F 25 pairs	25
6202	RC5F 50 pairs	50
6233	RC5F 56 pairs	56
8002	RC5F 60 pairs	60
6234	RC5F 64 pairs	64
6203	RC5F 75 pairs	75

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COMPAX PCM

- Extension of the COMPAX wiring system for 2Mbps digital lines, IDC connectors,
- Optimised management of 120 Ohms twisted pairs,
- Connection as close as possible to the shielding,
- Enables the use of large diameter shielded cables and jumpers.

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COMPAX PCM

Description

Function

This range of connection modules has been designed for interconnecting and patching 120 Ohms (twisted pair) links.

These modules are fitted to Digital Distribution Frames (DDF) located in the telephone exchanges.

Design

The range consists of 6 modules based around the specifics described below :

- Cable end (upper), the choice is between incoming from the rear or from the side, with or without individual connection of shielding per pair.
- Jumper end (lower), 2 types of wire-guide channels enabling the connection of shielded or non shielded jumpers.

- Fontionnalities :

- 8 pairs disconnecting modules

- Insulation displacement contact (IDC) :

- Wire from 0.32 to 0.8 mm
- Insulator max. diameter : 1.5 mm

- Flame class rating :

- UL94V0 (LSZH)

P/N 89686 (blue) :

This module enables the connection :

- At the rear, of a multipair cable and the general shielding of the cable to the IDC pin, with harness guide.
- At the side, of shielded jumpers with diameters up to 4 mm with individual connection of the shielding.
- Dimensions : 135 x 69 x 19 mm

P/N 89716 (blue) :

This module enables the connection :

- At the rear, of a multipair cable and the general shielding of the cable to the earth plate, with channel guide.
- At the side, of shielded jumpers with diameters up to 4 mm with individual connection of the shielding.
- Dimensions : 135 x 69 x 19 mm

P/N 93574/93863:

This module enables the connection :

- At the side, of a multipair cable in pairs (93574) or quads (93863) and general cable shielding to IDC pin.
- At the side, of non shielded jumpers with diameters up to 3 mm.
- Dimensions : 135 x 69 x 18 mm

P/N 89713 (blue):

This module enables the connection :

- At the side, of a multipair cable , the general cable shielding to the IDC pin, with guide per channel (dia. 3 mm max).
- At the side, of shielded jumpers with diameters up to 4 mm with individual connection shielding.
- Dimensions : 135 x 69 x 20 mm

P/N 89715 :

This module enables the connection :

- At the side, of a multipair cable , the general cable shielding to the IDC pin, the individual connection of the screen per pair to IDC with guide per channel (dia. 4 mm max).
- At the side, of shielded jumpers with diameters up to 4 mm with individual connection shielding.
- Dimensions : 135 x 69 x 22 mm

Standards

International EN 50173

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COMPAX PCM

Characteristics

Electrical characteristics	
Dielectric strength core to core DC, min.	7.5 kV
Resistance of the insulation	100000 MOhm
Maximal through resistance	5 mOhm
Transmission characteristics	
Crosstalk at 300 MHz (S2TE)	-40 dB
Crosstalk at 100 MHz (S, S2T)	-52 dB

Selling delivery information

Accessories :

The COMPAX range has a large number of different modules (colour, marking,...) and a lot of accessories (label, holders, cutting shim, protective elements, etc...).

Please call.

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COMPAX COAX

- Extension of the COMPAXwiring system to digital coaxiallines
- Choice of coaxial connections
- Optimized management ofcoaxial wires (with lateral cableguides)
- Integrated label holder

Description

Description

The modules use the Compax system as the installation base on universal rail.

The metal plate which supports the coaxial sockets is earth-connected. It ensures the electrical continuity with the rail.

A label holder makes possible the identification of the connectors.

Modules are provided with or without any connectors.

Application

This range of connection modules has been designed to enable the interconnecting and patching of 50 or 75 Ohms coaxial links.

These modules are fitted on digital distribution frames (DDF) located in telephone exchanges. The fitting can be vertical or horizontal.

Use

The mounting of two head-base modules for a block of 14 or 16 data ports and enables the use of U-link and Test U-link coaxial jumpers both vertically and horizontally.

Thus, for example, all the incomings can be mounted onto the upper row and all the outgoings onto the lower row.

In this way, the U-link accessories enable direct incoming/outgoing links . The identification is easy by means of the label holders.

These module are provided without any socket.

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COMPAX COAX

Product List

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Nexans ref.	Country ref.	Name	Height (mm)	Length (mm)	Horizontal pitch (mm)
	84362	For 16 sockets BT 43 P01	45	170	12.7
	84401	For 16 sockets BT 43 P01 diam = 7,5	45	170	10
	84383	For 16 sockets BT 43 P02	45	170	12.7
	84339	For 16 sockets PC 1,0/2,3	45	170	15
	84384	For 16 sockets PC 1,6/5,6	45	170	15
	84002	For 7 sockets BNC diam 10	36	170	20
	84003	For 7 sockets BNC diam 13	36	170	20
	84021	For 8 sockets BNC diam 10	36	190	20
	84025	For 8 sockets BNC diam 13	36	190	20
	84361	For 8 sockets BT 43 P01	36	170	12.7
	84382	For 8 sockets BT 43 P02	36	170	12.7
	84026	For 8 sockets PC 1,0/2,3	36	170	15
	84020	For 8 sockets PC 1,6/5,6	36	170	15
	84400	For 8 sockets PC BR2	36	190	20

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Interconnection to the subscriber

Connection solutions for the local loop to meet xDSL.

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DTI RJ

Demarcation and Disconnection Outlet with RJ45 socket

- Demarcation Point and limit of responsibility of the operator,
- Line Test Access and default location before or after the DTI-RJ,
- IDC fast connections,
- Easy installation,
- With or without RC module.

Description

Application

The DTI-RJ (Indoor Termination Device) is the first device on the copper line at the customer's. It splits and defines the demarcation between the incumbent's local loop and the customer's indoor network. It sets a clear limit of responsibility between the two parties.

The DTI-RJ is compatible with all the present systems (POTS, RNIS, xDSL).

By inserting a RJ45 plug, it deconnects the indoor network at the customer's side and tests the local loop. It also allows the customer to check the presence of the dial tone. This action can locate any default at the operator's side or the customer's side.

Description

The DTI-RJ is equipped with a RJ45 female socket.

It allows the connection with IDC's (Insulation Displacement Contact) of:

- 1 input drop cable pair,
- 3 output pairs for indoor equipments (marked 1, 2 and T (Test)

The DTI-RJ is composed of a cover and a base plate supporting a pivoting termination plate. The casing contains a tool to make some IDC terminations. For repeated terminations, it is recommanded to use the OSA3 termination tool (to be ordered separately).

It can be fitted with a RC module (defined place).

Dimensions 75x75mm

Height 35mm

Wall or DIN 35mm mounting.

HOMOLOGUE FRANCE TELECOM

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Boxes, frames and cabinets

These interconnection solutions include the infrastructures, the blocks and the connection modules.

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ADW outdoor, double-wall, aluminum cabinet

Key benefits

- Versatility: can handle all types of outdoor active equipment (VDSL, UMTS, FITL, Video, etc.)
- Strength and durability outdoors: the structure is built using hollow, extruded, rigid aluminum profiles which will not bend or warp
- Insulation: the double-walled sides, back, doors and ceiling creates an air-cushion between the inside and the outside, allowing for complete thermal management and efficient heat dissipation via inside fan or cooling system
- Watertightness: all detachable parts incorporate neoprene joints
- Convenience: all covers are detachable, and the doors open to 180° to provide you with easy access
- Modularity: can be customized and configured to suit your needs by integrating copper and fiber frames, or adapting the design in terms of size, heat management and component distribution.
- Security: protects your active equipment investment from vandalism and the elements

Description

Key features

Whether you are an incumbent or new local exchange carrier, you want to widen the reach of xDSL into new subscriber areas beyond the distance limitations of the local central office. You must get cables and active equipment closer to end-users. This is why secure and adaptive outdoor cabinets are essential for housing and protecting your cables, wiring blocks, and sensitive telecom equipment. These "satellite" cabinets need to meet a number of important criteria. They must be modular, allowing for a mix of both passive and active elements according to your needs. They also must have headroom for future growth, and provide protection against overheating, water penetration, and vandalism.

Nexans' ADWs cabinets are an ideal housing for all kinds of applications and equipment, and are especially adapted to the expanding xDSL environment. Much more than just providing you with a protective cabinet, we can also do a study of a completely finished product, fully adapted to your specifications.

Function

Dedicated to all the outdoor applications which need reinforced mechanical and environmental protection, the ADW cabinets are modular and allow all kinds of applications and equipments. They are particulary adapted for the active equipments which provide the new services on the wireline networks (i.e. : VDSL) or wireless networks (i.e. : UMTS).

Selling delivery information

Standard version

- With double-layered ceiling.
- Door equipped with catch lock and pivoting handle
- With KABA cylinder or similar.
- Open bottom
- With fixed or detachable side walls.
- With external ventilation slots in back and side walls.

Accessories

All the cabinets have the following features :

- 80 mm baseboard with steam barrier.

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ADW outdoor, double-wall, aluminum cabinet

- Door retention device.
- 19" WS 259 pivoting panel.
- 19" fixed, mounted profiles. - Service box with door.
- Detachable doors and walls on all sides.
- Separable doors and walls.
- RFI screen.
- Full range of assembly platforms.

Ordering information :

- With or without plinth.
- Right or left door hinges.
- Door retainer.
- Steam barrier.
- Ventilation slot.

Special requirements

- Due to the modular design, the outdoor cabinets are often designed according to customer specifications. Please call for special requirements.

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ALM - P

The ALM.P cabinet is intended for connections and jumpering of the distribution wiring in cross-connection terminals.
It is designed for external environments.
The line capacity depends on the type of equipment installed (COMPAX or TFSR).

Description

Description

- Made of glass-reinforced polyester, the ALM.P cabinet consist of 3 base components :
- A base (optional) enabling the cabinet to be secured and an access flap for distribution cables (secondary) and transport cables (primary).
- A chassis holding the equipment enabling the :

  - The securing of connection cable heads without chassis,
  - The securing of the cables.

- The external cover consists of:
  - A roof providing protection and ventilation at the top,
  - One or two doors with rubber seals guaranteeing the seal against running water and ventilation for the lower part,
  - Lateral partitions.
- It can be fixed directly to a concrete base.
- The external cover is removable whilst maintaining the operation of the lines.

Standards

National NF C 26-205; NF T 51-072

U.V resistance
Yes

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ALM - P

Characteristics

Dimensional characteristics	
Depth	360 mm
Height	1500 mm
Width	775 mm
Number of pairs	1600
Usage characteristics	
Type of cabinet	Compax
U.V resistance	Yes

ALM-A Accessories

Accessories

CODE	Description
10076842	Cable screen connection kit
10077398	Cable seal Kit
10078405	Spiral protection shielding

Selling delivery information

Packaging :

Packed in 3 on wooden pallet.

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ALM - A

The ALM.A cabinet is intended for connections and jumpering of the distribution wiring in cross-connection terminals.
It is designed for external environments.
The line capacity depends on the type of equipment installed (COMPAX or TFSR).

Description

Cross-connect cabinet

- Robust,
- Corrosion free,
- Contents sealed against running water and spray,
- Protection against dust and insects,
- Natural air convection, guaranteeing constant ventilation of the equipment,
- Door locked in open position,
- Document holder and jumper reel on the door,
- Removable cover, providing EMC protection,
- Support frame for equipment independent of the cover.

Description

Made of painted grey aluminium, the ALM.A cabinet consist of 3 base components:

- A base for the attaching of the cabinet and the cable accesses. It is fixed using a concrete foundation with metal bolts (not supplied).
- An inlet structure to receive the cable heads without chassis.
- An external cover consisting of:

  - A roof providing protection and ventilation,
  - One or two doors with rubber seals guaranteeing the seal against running water and ventilation for the lower part,
  - A body.

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ALM - A

Characteristics

Construction characteristics	
Colour	RAL: 7032
Material	Aluminium
Mechanical characteristics	
Resistance to abrasion, unidirectional	256.0 N
Impact resistance (EN 187 000)	100 J

ALM-A Accessories

Accessories

CODE	Description
10076842	Cable screen connection kit
10077398	Cable seal Kit
10078405	Spiral protection shielding

Selling delivery information

Packaging :

- Packed in 2 for ALM double side,
- Packed in 3 for ALM single side.

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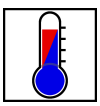
- Robust,
- Suitable ergonomic design,
- Protected from bad weather,
- Captive cover,
- Reliable connectors.



Ambient static operating temperature, range
-25 .. 85 °C

Water proof
IP 43

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BMX - MXP BMX - MXC

Description

Function :

The BMX outside distribution box is used for connection of the subscribers' cables to a multi-pair cable. The connection is made by means of breaking (MXC) or protection (MXP) modules. Partial distribution of the multi-pair cable can be achieved by tapping off.

The box is secured in the front by screws or on a pole with metal strip (not supplied). It is delivered with an earth rod.

Description :

The BMX outside distribution box BMX for MXC - MXP is composed of a body, a lid and connection modules.

- **The body** includes horizontal rails, module supports in the central part, and cable entries in the bottom part. A clamping arrangement provides for the retention of the multi-pair cables, and wire guides in a chicane arrangement are used to hold the subscribers' cables. An elastomer cable grommet with break-out inputs, takes care of waterproofing.
- **The lid** is hinged and can be held in the open position.
- **The connection module**
  This clips onto the rail. Connection by a double shelfstrip arrangement is rendered reliable by means of a grease which takes care of waterproofing of the connections between a pair of the multi-pair cable and a subscriber cable of the "drop cable" type.

  The MXP module is equipped with a three-pole voltage surge arrester. Test can be carried out either on the line side or the subscriber side.

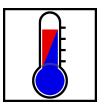
Connection :

Multipair end :

- Ø 0.4 to 0.8 mm
- Ø on insulation < 1.5 mm

Subscriber end :

- Ø 0.6 to 0.9 mm for MXC
- Ø 0.4 to 0.9 mm for MXP
- Ø on insulation < 3.4 mm



Ambient static operating temperature, range
-25 .. 85 °C

Water proof
IP 43

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BMX - MXP BMX - MXC

Characteristics

Construction characteristics	
Colour	Light grey
Usage characteristics	
Ambient static operating temperature, range	-25 .. 85 °C
Water proof	IP 43

Product List

=Make to order, =Make to stock

Nexans ref.	Name	Number of pairs	Module type
BMX08MXC	BMX-MXC	8	MXC
BMX08MXC	BMX-MXC	10	MXC
BMX08MXC	BMX-MXC	14	MXC
BMX08MXC	BMX-MXC	20	MXC
BMX08MXC	BMX-MXC	28	MXC
BMX08MXC	BMX-MXC	30	MXC
BMX08MXC	BMX-MXC	40	MXC
BMX08MXC	BMX-MXC	50	MXC
BMX08MXC	BMX-MXC	56	MXC
BMX08MXP	BMX-MXP	8	MXP
BMX08MXP	BMX-MXP	10	MXP
BMX08MXP	BMX-MXP	14	MXP
BMX08MXP	BMX-MXP	20	MXP
BMX08MXP	BMX-MXP	28	MXP
BMX08MXP	BMX-MXP	30	MXP
BMX08MXP	BMX-MXP	40	MXP
BMX08MXP	BMX-MXP	50	MXP
BMX08MXP	BMX-MXP	56	MXP

= Make to order, = Make to stock

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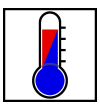
BMX - SDP BMX - SD2P

- Robust,
- Ergonomic,
- Protected against the weather,
- Captive lid,
- Reliable connections.



Operating temp. range
-25 .. 85 °C

Water proof
IP 43

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BMX - SDP BMX - SD2P

Description

Function :

The BMX external distribution unit is used for the connection of subscriber wires to a multi-pair cable. The connection is made by means of SDP or SD2P protection modules. A partial distribution of the multi-pair cable can be realised by looping. The unit is fixed to the builidng by screws or to a pole with a metal hoop (not supplied). It is supplied with an earthing point.

Description :

The BMX external distribution unit for SDP-SD2P consists of a body, a cover and the connection modules.

- **The body** consists of horizontal rails, module supports in the central part and cable entries in the lower part. A clamp device holds the multi-pair cables in position, and chicane feed sleeves hold the subscriber wires in places. An elastomer cable bushing with push down entries ensures the seal.
- **The cover** is articulated and held in its open position.
- **The connection module**
  This clips on the rail. The IDC connection is secured by means of grease which ensures the seal for the connections between a pair of multi-pair cables and a Drop cable type subscriber wire.

The SD2P module is fitted with a triple-pole paraoverload protection. Tests can be carried out, either on the line side or the subscriber side, by means of a test module.

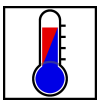
Connection :

Multipair end :

- Ø 0.35 to 0.9 mm
- Ø on insulation < 1.6 mm

Subscriber end :

- Ø 0.35 to 1 mm
- Ø on insulation < 3.5 mm



Operating temp. range
-25 .. 85 °C

Water proof
IP 43

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BMX - SDP BMX - SD2P

Characteristics

Construction characteristics	
Colour	Light grey
Material	Thermoset plastic
Usage characteristics	
Operating temperature, range	-25 .. 85 °C
Water proof	IP 43

Product List

=Make to order, =Make to stock

Nexans ref.	Name	Number of pairs	Module type
BMX08SD2P	BMX-SD2P	8	SD2P
BMX08SD2P	BMX-SD2P	10	SD2P
BMX08SD2P	BMX-SD2P	14	SD2P
BMX08SD2P	BMX-SD2P	20	SD2P
BMX08SD2P	BMX-SD2P	28	SD2P
BMX08SD2P	BMX-SD2P	30	SD2P
BMX08SD2P	BMX-SD2P	40	SD2P
BMX08SD2P	BMX-SD2P	50	SD2P
BMX08SD2P	BMX-SD2P	56	SD2P
BMX08SDP	BMX-SDP	8	SDP
BMX08SDP	BMX-SDP	10	SDP
BMX08SDP	BMX-SDP	14	SDP
BMX08SDP	BMX-SDP	20	SDP
BMX08SDP	BMX-SDP	28	SDP
BMX08SDP	BMX-SDP	30	SDP
BMX08SDP	BMX-SDP	40	SDP
BMX08SDP	BMX-SDP	50	SDP
BMX08SDP	BMX-SDP	56	SDP

= Make to order, = Make to stock

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Fibre solutions

- Optical splicing and routing systems :*Specific solutions for optimized optical fibre routing*
- Optical distribution structure : *A modular interconnection system designed to provide a flexible range of customized solutions for specific requirement*
- Network management tool : *the intelligent management of infrastructures and wiring*
- Splice protection system : *A complete product range for the interconnection of OSP fibre optic cables.*
- L.I.N.X. : *The know-how of a leader in splice protection system combined with Nexans'experience in cables*
- Subscriber solutions : *the Nexans'solution for optical fibre deployment at subscriber premises*
- A range of fibre optic cables : *solutions that are pre-assembled, tested and guaranteed*
- Cable retention and fan-out devices : *know-how in interconnection systems*
- Tools and accessories : *optimal interconnection solutions*

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Optical distribution frames

Main distribution frames & racks

The deployment of optical fibre networks in a context of deregulation gives rise to a very specific problem. In the first place, this deployment is taking place in an international context, and confronts the operator with very varied network topologies. In the second place, the deployed cables are carrying services which may be supplied by multiple service providers.

This problem has led Nexans to specify a principle for a modular interconnection solution capable of adapting to a variety of network topologies, while still guaranteeing perfect integrity of the network in a variety of uses.

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OPTEASTAR

The OPTEASTAR solution integrates the multiplicity of existing connection solutions by the application of a specific modular architecture adapted to the varied nature of the requirements. The OPTEASTAR concept is applicable to the various interconnection nodes of the network. As a complete architecture at the level of the exchanges, its modules can also adapt themselves to the different enclosures such as the street cabinet, the wall-mounted box, etc.

Description

OPTEASTAR is an intelligent distribution solution, intended for cross-connection and interconnection applications. In addition to the basic functions of a distribution frame to interface the cables coming from the distribution network with the electronic equipment OPTEASTAR also allows individual management of the lines. This significant contribution from Nexans allows the operators to optimise the integrity of their networks. By the application of this function, which is unique on the market, the operators are now able to offer more sophisticated services to their customers.

There is also a para-seismic version (Bellcore Cat 4)

Basic functions guaranteed :

Interconnection node between the external network and the internal distribution network.

OPTEASTAR provides a solution for each of the functions to which it is devoted (splicing, patching, combined function, etc.).

For FTTH applications (PON), it can also manage splitters until 1X32 and eventually 1X64.

In addition to this innovation :

OPTEASTAR innovates at two further levels :

- The first applies to management of the patch cords and to management of the fibres (singly, by circuit and by element), as a result of incorporating the FiberArt™ module which is a module for the connection of optical fibres, used to optimise management of the fibres in accordance with the required cabling configuration.
- The second level of innovation concerns the multiplicity of network configurations.

Opteastar is able to handle these levels by a construction which is based upon single or combined functions.

In order to deal with a multiplicity of configurations :

Its design, based on an optimised modularity, enables it to cope with any type of cabling configuration:

- Inter-frame patching,
- Interconnection,
- Cross-connection,
- High connection densities as well as multiple network topologies.

Its modules are compatible with the various formats on the market, e.g 19", ETSI or 23". Depending on the application, the range comes in several heights (from 1000 to 2200mm), in depths of 300 mm, and in widths from 600 mm to 900mm.

Standards

International Nexans specification

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OPTEASTAR

Characteristics

Usage characteristics	
Function	Modular optical distribution frame OPTEASTAR

Selling delivery information

OPTEASTAR - a concept applicable to each point of the network.

The OPTEASTAR concept is applicable to the various interconnection nodes of the network. Many kinds of frames are available (please contact our commercial services). As a complete architecture at the level of the exchanges, its modules can also adapt themselves to the different enclosures such as the street cabinet, the wall-mounted box, etc.

Thus each shelf can be configured and ordered as an element of the OPTEASTAR distribution rack architecture.

These are elementary modules (see reference system).

Or indeed each shelf can be configured and controlled as a complete module capable of being fitted in racks, cabinets or wall-mounted boxes. These are the sub-rack modules (see reference system).

OPTEASTAR - a concept in which connectors can be pre-fitted.

Because of Nexans workshops specialising in cabling, pre-fitting of connectors and optical measurements, each of the modules or the complete frame (600 mm or 900 mm large) can be delivered fully cabled and tested.

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MOE48

The splicing 1U module (MOE) of the cable head type is a high capacity shelf and is used to organize splicing of the optical cords. It is the final transition element to the patching level. This module is designed for standard indoor or outdoor frames, as well as for OEM applications thanks to its limited depth.

Description

Function

In terms of structuring of the internal cabling, the MOE splicing module is used for :

- configuration with tubed fibre input and output via the rear,
- configuration with tubed fibre input and pigtail output via the front.

- This module allows high capacity splicing and can receive 48 fibres (1U module with 2 cassettes 24 splices max each) and is used to increase the connection density at the level of the distribution frame (optimization at 2 mm).

Conception

The splicing module is used to receive the cassette trays for storage and management of splices or couplers.

The module includes a space reserved for splicing of the incoming tubed fibres. Splicing is provided with 2 large cassettes. The second one is fixed on an articulated plate.

This module is compatible with different formats available on the market: ETSI, 19", 23", MECA 80.

This module is provided with accessories in order to guarantee conformity with the radii of curvature.

This module is composed of :

- A fixed chassis attached to the rack (ETSI/19"),
- A mobile tray swivelling to right or left,
- A large cassette able to receive 24 splices,
- An articulated tray supporting a second large cassette for other 24 splices,
- A frontal protection arrangement for the cords,
- A cover,
- A primary fan-out device fast fixing system D.E.P. (2 max).

Commercial References :

- PN MOE-D : 10080282
- PN MOE-G : 10080311

Accessories :

- Extra DEP : 10083096
- MECA80 Kit : 10085886
- Bracket Kit 23" : 20114190

Standards

International Nexans specification

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MOE48

Characteristics

Construction characteristics	
Colour	RAL 9002
Material	Steel
Dimensional characteristics	
Length	440 mm
Height	44.5 mm
Depth	200 mm
Approximate net weight	1.5 kg

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MOS36

The coiling optical module (MOS) completes the structuring of the distribution frame, consisting of coiling management by group of the optical cords which correspond to a subscriber, a group of subscribers, or to the Operators in the case of shared networks.This module is designed for standard indoor or outdoor frames, as well as for OEM applications thanks to its limited depth.

Description

Function

The coiling module is a basic chassis composed of a swivelling tray. It is used to handle excess lengths of optical cords between the splicing level and the patching level, as well as for cross-connection or inter-connection.

This module is provided with accessories in order to guarantee conformity with the radii of curvature.

This module is composed of :

- A fixed chassis attached to the rack (ETSI/19"),
- A mobile tray swivelling to right or left with a coiling area for 12 patchcords,
- An articulated tray integrated in the mobile tray with a coiling capacity of 24 patchcords (12 per side),
- A frontal protection arrangement for the cords,
- A cover,
- Connectors maintaining devices for patchcords in standby.

Conception

Each coiling level can receive 12 cords maximun, according to the length to be handled, for a max capacity of 36 for the whole module.

The shelf is of the swivelling type in order to optimize accessibility, while also reducing the movement of cords when opening the shelf, thus guaranteeing a minimum transient loss effect.

The module is compatible with the various formats available on the market: ETSI, 19", 23", MECA 80.

Commercial References :

- PN MOS-D: 10080280
- PN MOS-G: 10080309

Accessories :

- MECA80 Kit : 10085886
- Bracket Kit 23" : 10085886

Standards

International Nexans specification

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MOS36

Characteristics

Construction characteristics	
Colour	RAL 9002
Material	Steel
Dimensional characteristics	
Length	440 mm
Height	44.5 mm
Depth	200 mm
Approximate net weight	1.5 kg

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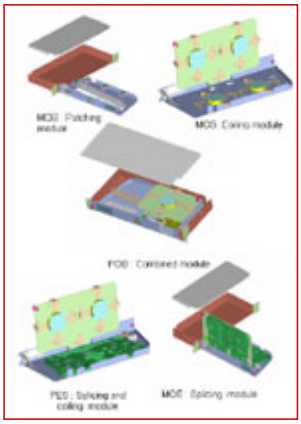
TOPTEL

TOPTEL modules family is an intelligent distribution solution for optics, intended for OEM or cross-connection and inter-connection applications.

Description



Universal Sub-racks

A range of universal modules is available with all the basic functions to interface the cables coming from the distribution network with the electronic equipment.

Those modules and their flexibility allow the operators to optimize their networks with all kind of cabinets.

Operators are now able to offer more services to their customers.

This solution integrates the main existing connection solutions by the application of a specific modular architecture.

Basic Functions guaranteed

Inter-connection node between the external network and the internal distribution network (all passive application) or the electronic equipment (OEM applications).

TOPTEL universal modules provide a solution for each of the functions to which they are devoted (splicing, patching, coiling, combined function, etc.).

For instance, combined modules are used to connect maximum 12 fibres cables (1U module, with a 12 splices cassette), while still retaining operational convenience (patch panel available for several types of existing connectors).

It has also a dedicated patchcords coiling level. The proximity of the functions also results in a reduction of pigtail lengths.

The module includes a space reserved for splicing of the incoming tubed fibres, as well as a frontal space devoted to patching.

Splicing is performed with conventional cassettes.

Patching function is effected on panels which can be pre-equipped.

In order to be universal

Module design, based on an optimized modularity, enables it to cope with any type of cabling configuration:

- Inter-frame patching,
- Inter-connection,
- Cross-connection,
- OEM applications.

Cables enter at the rear of the rack (10-19 mm range).

Cables are attached directly to the module.

The design of those modules makes it possible to use main of the various existing cable structures, tube structure, singlemode or multimode fibres, etc ...).

The module is made up of the following :

Standards

International Nexans specification

- a fixed part which is attached to the front of the frame,
- a right (or left) swivelling support for mounting splicing cassettes or/and patching panel, or/and articulated coiling plate.
- the same basic components (mainly the 1U chassis),
- fast clamp system,
- compatibility with the various formats on the market, e.g. 19", ETSI.

Selling delivery information

A concept applicable to each point of the network.

- Modularity,
- Flexibility,
- Swivelling plates to avoid transient loss,
- Low depth to allow air motion in active cabinets,
- Left or right opening to optimise patchcords flow in the frames,
- Compatibility with the various formats on the market,
- Availability for several types of existing connectors, those are the qualities.

Thus each shelf can be configured and ordered as a single element.

A concept in which connectors can be pre-fitted

Because of Nexans workshops specialising in cabling, pre-fitting of connectors and optical measurements, several modules can be delivered cabled and tested.

Have a look to the TOPTEL Family products

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MOB36

This module (MOB) is a patching module, cable head type, enabling frontal patching of the optical cords. It is the final transition element to the electronic equipment.

Description

The patching module provides an answer to management of the fibres by assigning a physical patching level to a subscriber, to a group of subscribers, or to the Operators in the case of a shared network. This module is designed for standard indoor or outdoor frames, as well as for OEM applications thanks to its limited depth.

Standards

International Nexans specification

Function

In order to optimize the number of connections, and in terms of the internal cabling configuration, the module allows patching on the basis of two options :

- Either patching from jumper to jumper.
- Or patching from jumper to pigtail via the front.

This module (1U) enables connection of a maximum of 36 fibers and is used to increase the connection density at the level of the distribution frame (optimization at 2 mm).

Conception

The patching module is a basic chassis composed of a swivelling tray, used to receive a patching panel, which have been pre-equipped or not with adaptors for optical fibre connectors.This patch panel can receive up to 36 adaptors (SC,EC,E2000, FC,ST).

This module is compatible with different formats available on the market: ETSI, 19", 23", MECA 80.

This module is composed of :

- A fixed chassis attached to the rack (ETSI/19"),
- A mobile tray swivelling to right or left,
- A patching panel for 36 connectors (SC,EC, FC,ST), or 24 SC Duplex (in option),
- A frontal protection arrangement for the cords,
- A cover.

Commercial References :

- PN MOB-D: 10080281
- PN MOB-G: 10080310

Accessories :

- Bracket Kit 23" : 20114190
- Panel 48 SC : 20122293 (24 SC Duplex)

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MOB36

Characteristics

Construction characteristics	
Colour	RAL 9002
Material	Steel
Dimensional characteristics	
Length	440 mm
Height	44.5 mm
Depth	200 mm
Approximate net weight	1.5 kg

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SPSH Cassette Splicing Module

The splicing module is the first transition element between the external cable arriving from the network and the internal interconnection elements. It is therefore used to organize the distribution of the fibres in order to route them to the patching functions. The elementary module is available for OPTEASTAR frames (600 mm or 900 mm width). The sub-rack module is designed for standard frames

Description

Function

In terms of structuring of the internal cabling, the SPSH cassettes splicing module is used for :

- Configuration with tubed fibre input and output via the rear (CST configuration).
- Configuration with tubed fibre input via the rear and pigtail ouput via the front or the rear (CPF configuration).

Design

The splicing module is a basic chassis composed of many levels used to receive the cassette trays for storage and management of splices or couplers.

Each level can have :

- 48 splices of the fusion type with heat-shrink protection
- 72 splices of the fusion type with mechanical protection.

The maximum capacity of each module is 288 fibres for ETSI formats, 384 for 19" and 23" formats spliced in accordance with the chosen splice protection tubes and pigtails type. The module is compatible with the various formats on the market, namely 19", ETSI, 23", etc.

For cabling configurations necessitating a front pigtail ouput, a device for pigtail management is delivered pre-mounted at the output of the splicing cassette.

The module is of the swiveling type, in order to optimise accessibility while also allowing minimum movement of the pigtails and of the fibres when opening the module.

This is used to guarantee a minimum transient loss effect.

The module is composed of:

- a fixed chassis attached to the rack,
- 6 distribution levels, for ETSI frames or 8 for 19" and 23" frames, hanging individually, mounted on a rotation axis,
- each distribution level is equipped with a cassette and an individual frontal protection strip,
- tube guide accessories for re-tubed input/output fibres and/or pigtail guide accessories for front panel ouput,
- a protective cover on the upper module.

Standards

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SPSH Cassette Splicing Module

Characteristics

Usage characteristics

Function	Modular optical distribution frame OPTEASTAR

Dimensions

	Height	Depth	Rear Larger	Front larger	Front cover depth
19"	3 U	238 mm	433 mm	465.10 mm	37 mm
23"	3 U	238 mm	490 mm	566.70 mm	37 mm
ETSI	99.20 mm	238 mm	433 mm	515 mm	37 mm

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PASH Patching module

The patching module by level provides an answer to management of the fibres by assigning a physical patching level to a subscriber, to a group of subscribers, or to the Operators in the case of a shared network.The elementary module is available for OPTEASTAR frames (600 mm or 900 mm width). The sub-rack module is designed for standard frames.

Description

Function

In order to optimise the number of connections, and in terms of the internal cabling configuration, the module allows patching on the basis of two options :

- Either patching from jumper to jumper.
- Or patching from jumper to pigtail via the front or the rear.

Design

The patching module is a basic chassis composed of 6 (ETSI) or 8 levels (19" ans 23"), used to receive patching panels, which have been pre-equipped or not with adaptators for optical fibre connectors. Each level can have up to 12 connectors, when pigtails are coming via the front.
The maximum capacity of each shelf is therefore 72 connectors (ETSI), 96 (19"), or 128 when pigtails are coming from the rear (23").

The patching module is fitted with tube guides, pigtail guide or jumper guides, in accordance with the chosen configuration.

The module is composed of:

- A fixed chassis attached to the rack;
- 6 (ETSI) or 8 (19" - 23") hanging distribution levels,
- Accessories for tube guides, pigtail guides, and jumper guides.

Each distribution level is fitted with a strip for securing the optical connectors for patching, as well as a frontal strip for individual protection of the level.

The connectors support strip is available for all types of existing connectors. The module is of the swivelling type in order to optimise accessibility, while allowing minimum movement of the pigtails and of the fibres when opening the module. This is used to guarantee a minimum transient loss effect.

Standards

International Nexans specification

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PASH Patching module

Characteristics

Usage characteristics

Function	Modular optical distribution frame OPTEASTAR

Dimensions

	Height	Depth	Rear Larger	Front larger	Front cover depth
19"	3 U	238 mm	433 mm	465.10 mm	37 mm
23"	3 U	238 mm	490 mm	566.70 mm	37 mm
ETSI	99.20 mm	238 mm	433 mm	515 mm	37 mm

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TOB

The splicing, patching and coiling module (TOB) of the cable head type is a high capacity combined shelf, completed with a 1U coiling module. It is used to organise frontal, to allow mid span applications and to coil the patchcords. It is the final transition element to the electronic equipment. This sub-rack module is designed for standard frames.

Description

Function

The TOB is a mechanical interface between the optical fibres coming from transmission equipment and the network.

It comprises the materials needed for patching, splicing and coiling cords.

By grouping together the three functions, this module enables connection of a maximum of 36 fibres (with 3 cassettes of 12 splices max.) and 12 fibres for mid-span connections with an additional cassette.

The proximity of the three functions also allows the length of the pigtails to be reduced.

Standards

International Nexans specification

Conception

This module is compatible with different formats available on the market: ETSI, 19", 23", MECA 80.

This module is provided with accessories in order to guarantee conformity with the radii of curvature.

This module is composed of :

- A fixed chassis attached to the rack (ETSI/19"
- A mobile tray swivelling to right or left
- A patching panel for 36 connectors (SC, EC, FC, ST)
- An organizer with 4 cassettes
- A frontal protection arrangement for the cords
- A cover
- A primary fan-out device fast fixing system D.E.P. (6 max).
- An additional swivelling 1U module (ETSI/19"), for patchcords coiling

Commercial References :

- PN TOB-D: 10080306
- PN TOB-G: 10080315

Accessories :

- Extra DEP : 10083096
- MECA80 Kit : 10085684

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TOB

Characteristics

Construction characteristics	
Colour	RAL 9002
Material	Steel
Dimensional characteristics	
Heightunit	0 U
Length	440 mm
Approximate net weight	4.0 kg
Depth	238.5 mm

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MEB

The splicing and patching module (MEB) of the cable head type is a high capacity combined shelf and is used to organise frontal patching of the optical cords. It is the final transition element to the electronic equipment. This sub-rack module is designed for standard frames.

Description

Function

The MEB is a mechanical interface between the optical fibers coming from transmission equipment and the network.

It comprises the materials needed for patching, splicing and coiling pigtails.

By grouping together the three functions, this module enables connection of a maximum of 72 fibers (with 6 cassettes of 12 splices max.). The proximity of the two functions also allows the length of the pigtails to be reduced.

The proximity of the two functions also allows the length of the pigtails to be reduced.

Conception

This module is compatible with different formats available on the market: ETSI, 19", 23", MECA 80.

This module is provided with accessories in order to guarantee conformity with the radii of curvature.

This module is composed of :

- A fixed chassis attached to the rack (ETSI/19"),
- A mobile tray swivelling to right or left.
- A patching panel for 72 connectors (SC,EC, FC,ST),
- An organizer with 6 cassettes,
- A frontal protection arrangement for the cords,
- A cover,
- A primary fan-out device fast fixing system D.E.P. (6 max).

Commercial References :

- PN MEB-D : 10080283
- PN MEB-G : 10080312

Accessories :

- Extra DEP : 10083096
- MECA80 Kit : 10085684

Standards

International Nexans specification

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MEB

Characteristics

Construction characteristics	
Colour	RAL 9002
Material	Steel
Dimensional characteristics	
Heightunit	0 U
Length	440 mm
Approximate net weight	3.5 kg
Depth	238.5 mm

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COSH Combined Module

The module with combined splicing-patching function is used to increase the connection density at the level of the distribution frame, by grouping the two functions. The proximity of the two functions also allows the length of the pigtails to be reduced.

Description

The combining module includes a space reserved for splicing of the incoming tubed fibres. Splicing can be performed with conventional cassettes or a FiberArt™ module. The patching function is in the form of a front panel capable of taking 72 connectors (ETSI), 96 connectors (19"), or 144 connectors (23"). Micro connectors are used to double the capacity (ETSI). The module is compatible with the various formats on the market, namely 19", ETSI and 23".

The module is fitted with guide accessories - tubes, pigtails and cords - in order to guarantee conformity with the radium of curvature. The module is composed of:

- A fixed chassis attached to the rack,
- A support for mounting of the FiberArt™ splicing module or of conventional splicing cassettes,
- A front patching panel with maximum capacity of 144 connectors,
- A frontal protection arrangement for the cords, with horizontal pivoting
- A device for lateral management of the optical jumper harnesses, on option.

The module is of the swivelling type, in order to optimise accessibility while also allowing minimum movement of the optical cords when opening the module. This is used to guarantee a reduced transient loss effect.

Standards

International Nexans specification

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COSH Combined Module

Characteristics

Usage characteristics

Function	Modular optical distribution frame OPTEASTAR

Dimensions

	Height	Depth	Rear Larger	Front larger
19"	4 U	238 mm	440 mm	465.10 mm
23"	4 U	238 mm	490 mm	566.70 mm
ETSI	148 mm	238 mm	440 mm	515 mm

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COSHD Combined 48 Module

The 48-fibre cable-end jumpering module (SC, E2000) is used to organize frontal jumpering of optical leads. It is the final transmission element before the electronic equipment. The elementary module is available for OPTEASTAR frames (600 mm or 900 mm width). The sub-rack module is designed for standard frames.

Description

Function

By grouping the two functions together, the combined splicing-patching module is used to connect 48 fibers cables while still retaining operational convenience (for SC or E2000 connectors).

The proximity of the two functions also results in a reduction of pigtail lengths.

Design

The combined-function modules a space reserved for splicing of the incoming tubed fibres, as well as a frontal space devoted to jumpering. Splicing is performed with conventional cassettes.

Jumpering is effected on strips which can be preequipped or not with connectors for connection to optical fibres. Each shelf-unit can have up to 24 connectors.

The module is compatible with the different formats on the market, e.g. 19", ETSI, 23" (100 mm size)

Each module has 2 shelf-unit, each capable of handling :

- 24 splices of the fusion type with heat-shrink protection,
- 24 connectors.

The module is of the pivoting type, in order to optimise accessibilty while also allowing minimum movement of the pigtails and of the fibres when the module is opened. This enables the transient attenuation effect to be reduced to a minimum.

The module is made up of the following :

- A fixed chassis, attached to the structure;
- 2 individually pivoting shelf-unit mounted on one axis of rotation,
- Each shelf-unit is equipped with a maximum of 2 cassettes and with a frontal strip with two rows of connectors;
- Tube guide accessories for input/output of the retubed fibres, and/or pigtail-jumper guide accessories for front-panel output;
- A protective cover on the top module.

Standards

International Nexans specification

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COSHD Combined 48 Module

Characteristics

Usage characteristics	
Function	Modular optical distribution frame OPTEASTAR

Dimensions

Height	Depth	Rear Larger	Front larger	Front cover depth
99.20 mm	238 mm	433 mm	465.10	37 mm

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PES24

The coiling and splicing 1U module (PES) of the cable head type is used to organize splicing of the optical cords, as well as coiling. It is the final transition element to the patching level. This module is designed for standard indoor or outdoor frames, as well as for OEM applications thanks to its limited depth.

Description

Function

This module comprises the materials needed for splicing and coiling pigtails.

By grouping together the two functions, it enables connection of a maximum of 24 fibers (1U module with 1 large cassette of 24 splices max) and is used to increase the connection density at the level of the distribution frame (optimization at 2 mm).

This module includes a space reserved for splicing of the incoming tubed fibres. Splicing is provided with 1 large cassette.

The coiling function is provided on an articulated plate having a capacity of 24 pigtails (12 per side).

This module is provided with accessories in order to guarantee conformity with the radii of curvature.

Standards

International Nexans specification

Conception

This module is compatible with different formats available on the market: ETSI, 19", 23", MECA 80.

This module is composed of :

- A fixed chassis attached to the rack (ETSI/19")
- A mobile tray swivelling to right or left,
- PA P splices,< 24 receive to able cassette large>
- An articulated tray integrated in the mobile tray with a coiling capacity of 24 pigtails (12 per side),
- A frontal protection arrangement for the cords,
- A cover,
- Connectors maintaining devices for pigtails in standby,
- A primary fan-out device fast fixing system D.E.P. (2 max).

Commercial references:

- PN PES-D: 10080304
- PN PES-G: 10080313

Accessories

- Extra DEP.: 10083096
- MECA80 Kit: 10085886
- Bracket Kit 23": 20114190

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PES24

Characteristics

Construction characteristics	
Colour	RAL 9002
Material	Steel
Dimensional characteristics	
Length	440 mm
Height	44.5 mm
Depth	200 mm
Approximate net weight	1.5 kg

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SPSH FiberArt™ Splicing Module

The splicing shelf with individual management of the fibres provides optimized and reliable management of the subscribers. The elementary module is available for OPTEASTAR frames (600 mm or 900 mm width). The sub-rack module is designed for standard frames.

Description

Function

From the viewpoint of internal cable structuring, the splicing shelf performs the function of a conventional shelf, offering the flexibility of a retubed fibre input and output via the rear and a pigtail output via the front.

Moreover, the shelf offers an additional function of individual management of the fibres:

- Either singly (one fibre per cassette),
- Or by circuit (two fibres per cassette),
- Or by element (one tube per cassette).

Design

The splicing shelf for individual management of the fibres can accept 1 or 2 FiberArt™ modules.

Each FiberArt™ module includes 12 individual cassettes used to connect 1 to 12 fibres.

It is thus used to individually manage:

- 12 subscribers,
- 24 subscribers.

The splicing capacity of the shelf for 12 subscribers is 72 fibres, and 24 subscriber the shelf takes 144 fibres.

The shelf is compatible with the various formats on the market, namely 19", ETSI and 23".

The shelf is of swivelling type in order to optimize accessibility while allowing minimum lateral movement of the tubed or pigtailed fibres, in order to guarantee a minimum transient loss effect.

The shelf is composed of :

- A fixed chassis attached to the protection rack,
- A horizontally swiveling front panel,
- Tube guide and pigtail accessories in order to comply with the radium of curvature of the fibres,
- Coiling accessories for the excess tube lengths.

Standards

International Nexans specification

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SPSH FiberArt™ Splicing Module

Characteristics

Usage characteristics

Function	Modular optical distribution frame OPTEASTAR

Dimensions

	Height	Depth	Rear Larger	Front larger
19"	99.20 mm	238 mm	433 mm	465.10
23"	99.20 mm	238 mm	433 mm	566.70
ETSI	99.20 mm	238 mm	433 mm	515

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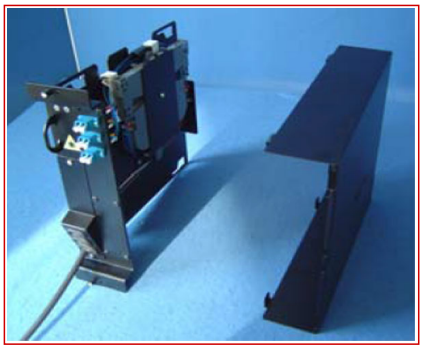
MOEB6

The patching and splicing optical module MOEB6 for mobile communications is the first transition element as interface between the external cables coming from the antenna with the electronic equipments.
It is therefore used to organize the fibres in order to route them to the patching functions.
The sub-rack module is designed for standard frames 70mm.

Description



Function

In terms of structuring of the internal cabling, the MOEB6 patching and splicing module is used for the configurations between tubed fibre input, coming from frontal cables from top or bottom, and pigtail output via the front.

Design

The patching and splicing module is a basic chassis to receive the cassette tray for storage and management of splices.

The cassette can have 6 splices of the fusion type with heat-shrink protection.

The combined module includes a space reserved for splicing of the incoming tubed fibres. Splicing is providing with a conventional cassette.

The patching function is in the form of a front panel. The module is composed of:

- A fixed chassis attached to the rack.
- A cassette, fixed on a pivoting support, for 6 splices, and the coiling of sheathes 1000mm.
- Tube guide accessories for re-tubed input/output fibres and/or pigtail guide accessories for front panel output.
- Clamping device for 6 cables, with collars.
- A coiling area for pigtail overlengths.
- A protective cover.
- An handle.
- An amovible patch panel for 3 dual LC adaptators.

Standards

International Nexans specification

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MOEB6

Characteristics

Dimensional characteristics	
Length	277.5 mm
Width	237.5 mm
Height	70.5 mm

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Optical fiber splicing rack

- High capacity in reduced size,
- Storage and protection of splices and couplers (optional) in cassettes
- Built on a sliding plate to make cabling easier

Description

Application :

The rack is designed to splice two optical cables together coming into a 19" (or ETSI) cabinet structure, or to distribute fibers in a building through pigtails directly connected to equipments.

It is fitted with a splice organizer composed of 3 to 6 cassettes to splice 72 fibers maximum (12 splices per cassettes) built on a sliding plate to make cabling easier.

Two cables can be fixed on each rack (clamping device to order separately)

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Optical fiber splicing rack

Characteristics

Usage characteristics	
Function	Standard system 19"

Product List

Nexans ref.	Country ref.	Name
	44890	Splicing rack 60 (O.F.) 5 cassettes
	44348	Splicing rack 72 (O.F.) 6 cassettes
	49487	Splicing rack 72 (O.F.) 6 cassettes with ringer tube

= Make to order, = Make to stock

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TOCB

The 12/48 fibre cable-end jumpering module is used to organise frontal jumpering of optical leads. It is the final transmission element before the electronic equipment. This sub-rack module is designed for standard frames. This subrack can so be easily integrated in frames fitted with the active equipment to interconnect them or onto the passive optical distribution frame.

Description

Function

By grouping the two function together, the combined splicing patching module is used to connect maximum 24 fibres (1U subrack) or 48 fibres (2U subrack) cables while still retaining operational convenience (patch panel available for all types of existing connectors).

The proximity of the two functions also results in a reduction of pigtails lengths. With a second module, it's possible to add a coiling function for the patchcords.

Design

The combined function module includes a space reserved for splicing of the incoming tubed fibres, as well as a frontal space devoted to patching.

Splicing is performed with conventional cassettes.

Patching function is effected on panels which can be pre-equipped or not with adaptors to allow the connection of the optical fibres.

Each shelf-unit can have up to 24 or 48 adaptors. The module is compatible with the different formats on the market, e.g. 19", ETSI, or 23".

Cables enter at the rear of the rack. Cables are attached directly to the subrack or to the frame. The design of this subrack makes it possible to use the various existing cable structures (indoor or outdoor cabling, slotted core or tube structure, monomode or multimode fibres, unitary or ribbon struture, etc ...).

The module is made up of the following :

- a fixed part which is attached to the frame,
- a plate mounted on slides,
- a location for one to four splicing cassettes (12 splices each),
- a device for storing excess lengths of pigtails.

This subrack also comes in a version that is equipped for the management of excess lengths of jumpers. In this case, it is combined with a jumper storage module which is fixed underneath the movable part of the rack.

Reference system

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TOCB

Characteristics

Usage characteristics	
Function	Standard system 19"

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OPTEASY™

A unique technology for optical fibre connection and distribution throughout the network.

Description

Opteasy

- Modular, high-capacity Main Distribution Frames with OPTEASY pack for front (F) or front and rear (FR) access,
- Wall mounted cabinet for use at smaller sites, with OPTEASY pack for modular distribution,
- OPTEASY pack: preterminated module for splicing 24 fibres in one Optobook™ module, and distribution on 24 connectors mounted on 2 removable front panels.

Modular racks and cabinets

FMDF "F" 480 FO :

- Max. 480 connectors per frames,
- Two 240-fibres splice areas, total 480 splices, Frame fittings and accessories available on request.

FMDF "F" 576 FO :

- Max. 576 connectors per (enlarged) frames,
- Two 288-fibres splice areas, total 576 splices, Frame fittings and accessories available on request.

FMDF "FR" 720 FO :

- Max. 720 connectors per frames,
- Three 240-fibres splice areas, total 720 splices, Frame fittings and accessories available on request.

FMDF "FR" 864 FO :

- Max. 864 connectors per (enlarged) frames,
- Three 288-fibres splice areas, total 864 splices, Frame fittings and accessories available on request.

FMDF "F" 19" / 9U :

- Wall-mounted cabinet "F" 19" / 9U, H=478, W=600, D=415mm,
- Max. 24 connectors,
- 1 splice area for 240 fibres,
- Cable entry from top or bottom, via brush seals,
- Colours: wall cabinet chassis RAL 7032, door frame RAL 7033,
- See-through door with left or right hinge,
- Environmental protection: IP 55 / EN 60529 (on request).

FMDF "F" 19" / 15U :

- Wall-mounted cabinet "F" 19" / 15U, H=746, W=600, D=415mm,
- Max. 144 connectors,
- 1 splice area for 240 fibres,
- Cable entry from top or bottom, via brush seals,
- Colours: wall cabinet chassis RAL 7032, door frame RAL 7033,
- See-through door with left or right hinge,
- Environmental protection: IP 55 / EN 60529 (on request).

FOCF 00321 :

- Wall-mounted box H=346, W=600, D=415mm,
- Max. 48 fibre-optic connectors or 144 fibre splices,

FMDF "F" 19" / 8U 144 splices :

Standards

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- Wall-mounted box "F" H=380, W=600, D=353mm,
- FMDF "F" max 240 splices,
- Environmental protection : IP 55 / EN 60529 (on request) removable front panels.

FMDF "FR" 1440 splices :

- 6 splices areas for 240 fibres, total 1440 splices,

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Characteristics

Usage characteristics	
Function	Optical distribution frame OPTEASY

Selling delivery information

Assembly :

The FMDF is available in fully or partially assembled and prewired versions, according to customer wishes.

This reduces both network downtimes and assembly costs. The FMDF design guarantees clearly structured cabling without crossovers.

- Flexible, modular cabling concept,
- Optimal-cost solution for high fibre densities,
- Clear fibre assignment and segregation of various network users,
- Individual access to each fibre bundle without reconfiguring existing cabling,
- Simple, easy-assembly access to fibres for network modifications or extensions,
- Fibres distributed to industry-standard connectors,
- Simple, straightforward patch-cable management,
- Independent, segregated patch-cable management for internal cabinet interconnections.

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TDCOB 24

- Pre-connectorisation
- Swivelling type protection door for the connections,
- Rings for the routing of jumpers,
- Jumpers storage.

Description

Function

The subracks are designed for connecting and cross-connecting optical fibers coming from different cable structures (Indoor/Outdoor, multimode/singlemode fibers, single fiber/ribbon). An organizer with two cassettes for splicing pigtails or optical couplers can be mounted in the rack.

A version with a module equiped for the management of excess length of jumpers is available.

Features

Height	1 U (44.45 mm) or 2U with storage unit, depth 252 mm.
Plate	Mounted on slides.

Reference system

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TDCOB 24

Characteristics

Usage characteristics	
Function	Standard system 19"

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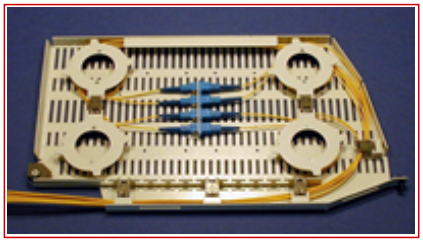
SHRL Module

The SHRL shelf units are designed to meet OEM requirements in the context of distribution applications. They can be incorporated intelligently into standard, pre-fitted, ETSI active equipment racks, and are contained in optimally dimensioned modular chassis, with the option to pivot them open either to right or left. This solution covers all of the existing connection solutions, and is based on a special modular architecture to suit the variety of requirements. These shelf units can also be adapted to suit a variety of containers, including street type cabinets and wall boxes.

Description



Application

In order to meet requirements for connection in an active rack where space is limited, to preserve the integrity of the network by limiting transient losses when shelf units are opened, and to comply with the ETSI standard by optimising the volumes using a principle of modularity, while still providing all of the necessary functions at all topologies, NEXANS Composants Télécom is proposing this concept in the context of highspeed data links.

The units include the function of splicing, patching and coiling of the fibres, and are able to handle several connection standards.

Design

The SHRL shelf units come in the following form :

- the painted pivoting metal shelf unit, containing a splicing cassette for 24 splices.
- the painted pivoting metal shelf unit, containing a coiling arrangement with a maximum capacity of 18 meters for 1,6 mm jumpers.
- the painted metal shelf unit with a jumpering function for 12 connections.
- the combined patching and coiling shelf unit with a capacity of 4 connections.

These shelf units can be stacked in a rack, each mounted in a chassis, or they can be grouped into larger chassis, each containing four or even eight shelf units, with pivoting to either left or right.

Reference system

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SHRL Module

Characteristics

Dimensional characteristics	
Width	535 mm
Height	22 mm
Depth	268 mm
Usage characteristics	
Function	O.E.M. distribution system

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Optical splicing and routing systems

Specific solutions for optimized optical fiber splicing in aerial, underground and indoor applications.

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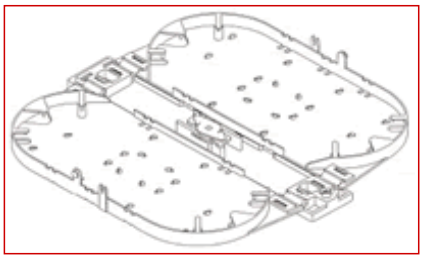
OPTOBOOK®

Universal module and accessories

Description



Main features

- Jointing of optical fibres,
- Distribution on pigtails of the optical fibres of the cables,
- Distribution on pigtails of the optical fibres of the cables.

Design

The module is characterised by:

- Small size,
- The choice of fully click-in accessories,
- Separation of the functions by OPTOBOOK®,
- A convenient space for the assembly work,
- Ease of cabling.

Selling delivery information

Besides the empty OPTOBOOK®, the complete set is built from the 7 other accessories.

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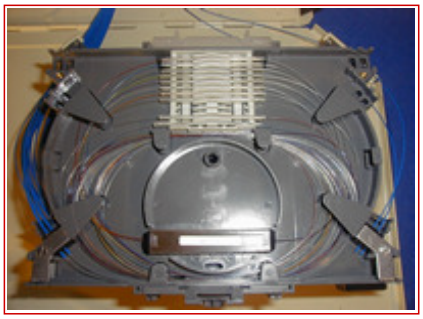
Optical splice cassettes

- Up to 24 heat-shrink splices, integration of couplers, storageof all types of splices,
- Tubes mechanically anchored.

Description



Use

These splicing cassettes meet any type of operating requirement. They can be used to:

- storage and splicing of optical fibres. Both 250 µm fibres or secondary costed pigtails,
- storage and splicing couplers with a capacity from 1 to 16 fibres.

Design

The splicing cassettes consist of:

- a plastic body,
- a transparent cover,
- a set of 4 plastic collars.

The body is composed by:

- 8 entries which can accommondate devices for securing optical fibres,
- openings where splice mountings can be clipped,
- external fastening points which, in combination with accessories, can be used to stack 3 cassettes or more, a central moulding which allows screwed assembly.

A complementary set of accessories can be used to obtain various configurations.

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Optical splice cassettes

Characteristics

Dimensional characteristics	
Length	200 mm
Width	150 mm
Height	10 mm

Selling delivery information

When ordering splicing cassettes, specify:

- splicing supports,
- fibre guide attachments,
- comb type,
- tube or pigtail attachments.

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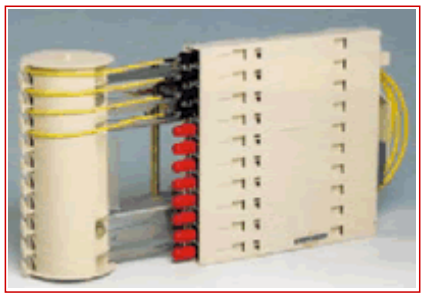
Organisers

For optical cable head
10/12 connectors for frame mounting

Description



Main Features

- Easy to install and use,
- Modular structure,
- Complete accessibility,
- Open-ended

Application

- In line or butt splicing,
- Installation on pole, in manhole, aerial or in technical duct,
- Possibility to have midspan configuration.

Function

The Organiser can be used to realize splices and to integrate couplers 1 by 2 on the optical cable head TDCOF 10/12.

A front patching panel has to be ordered separately.

Various models are available and can be developped upon request.

Design

The 3-cassette organiser consists of:

- a support fixed by 2 screws on the optical cable for 10/12 connectors,
- a swivelling chassis to accommodate the cassettes.

Each cassette can receive 3 couplers 1 by 2.

The 1-cassette organiser of identical construction can be furher extended to include 2 or3 cassettes.

Selling delivery information

Associated equipment includes:

- Optical main distribution frame (frame type),
- patchcords
- Optional : organiser cassette

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Fibre optic management module

static bending rad.
30 mm

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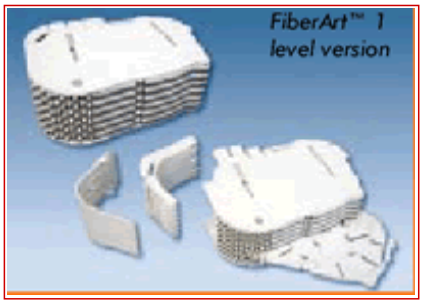
FiberArt™

Description



Main features

- Fibre routing optimisation
- Combination of fan-out and splicing functions
- Individual fibre management
- Compactness
- Ease of cabling
- No retubing operations needed
- Modular system

Application

FiberArt™ modules are used to optimize management and routing of optical fibres in the physical network.

Other than the basic function associated to managing connections of optical fibres, the module can also:

- individually manage fibres,
- route fibres to the different splicing trays,
- manage uncut fibres "in waiting" in mid-span cable configurations, or in double ring connections.

The module is sufficiently compact to be integrated into all interconnection systems developed by Nexans, between main exchanges and the subscriber access.

Product range

The FiberArt™ range comprises 2 models:

- Single-level fibre routing splicing module. Applications for high pigtail output capacity.
- Two-level fibre routing splicing module. Applications for protection of in-line splices with differentiation of incoming fibre - outgoing fibre levels.

FiberArt™ are made of a single piece moulding including:

- 12 splicing trays
- 1 fibre routing single level for 1-level FiberArt™
- 2 levels of fibre routing for 2-level FiberArt™

Fiber routing and Tray Capacity

The routing level is integrated into the module directly, consequently buffer tubes can be routed directly to the module without having to retube the fibres.

Fibres are routed to splicing trays, in which different configurations are possible:

- one fibre per tray (single fibre),
- two fibres per tray (single circuit),
- "n" fibres per tray (single element).

The capacity per tray is:

- 6 fibres with heat shrink splice protection. Capacity : 72 fibres,
- 12 fibres with mechanical splice protection. Capacity : 144 fibres (with no re-access).

Composition

The FiberArt™ module is delivered pre-assembled in Nexans interconnection systems. It includes:

- The basic module equipped with 12 splicing trays,
- The single fibre routing level and the protection cap,
- 3 combs of each size suitable for different tube diameters.

Composition of combs

Incoming/outgoing tubes and/or pigtails are attached using combs. The capacity and possible configurations are shown in the following table:

Tube or pigtail Ø	Total number of tubes or pigtails allowed per comb
4 mm±0.2	4
2.8mm±0.2	9
2.4mm±0.2	12
2 mm±0.2	15
1.6mm±0.2	18

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FiberArt™

Characteristics

Dimensional characteristics	
Height	56 mm
Length	156 mm
Width	118 mm
Number of trays	12
Weight	350 g
Usage characteristics	
Minimum static operating bending radius	30 mm

Selling delivery information

Associated accessories

Code	Description
50987	Fanout Kit for FiberArt 2 (2 levels fanout)
50989	Combs Kit for FiberArt 2 (2 levels fanout) (Includes combs for the following diameters: 900µm, 1.1 mm, 1.6mm, 2.4mm, 2.8m, 4mm.)

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Fibre optic transmission systems and network management tools

Splicing closures underground

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Telecom One : Software for cabling management

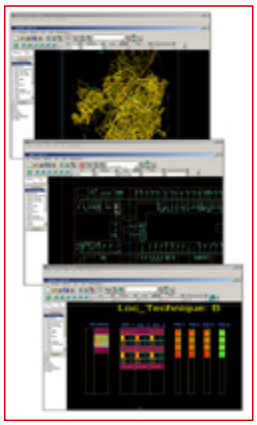
An indispensable complement to the Optical and Copper Distribution Frames of NEXANS, Telecom One offers a range of functions enabling the realistic visualization and management of the Distribution Frames within optical fiber and copper networks.

Telecom One generates, from an object library, any equipments such as a Distribution Frame using the various modules of the Opteastar, Opteasy and Copper ranges.

Its benefits are :

- Reduction in the intervention times,
- Improvement in the quality of the service provision,
- Optimization of the operating costs,
- Increased reliability of the installation

Description



Application

- To see the implemented infrastructure perfectly (cabinets, racks, connectors, jumpers, cables, sockets, cords, equipment, etc.),
- The instant pinpointing of all managed components (technical room, distribution frame, cable, bypass, splice, etc.),
- To increase life of the installation by the rational use of the infrastructure,
- To optimize and professionalize the interventions (Plans, diagrams, work orders, etc.),
- To maximize the effectiveness of upgrades (new installations, patching, implementation of circuits, etc.),
- To extend availabilities (potential link chains, vacant resources, etc.).

TELECOM One releases the operator from the timeconsuming tasks of documenting the infrastructure and enables more time to be dedicated to more strategic aspects.

With all of the data held in a single database (without any division between a graphic database and an alphanumeric database) and a single man-machine interface offering a vast functional coverage, **TELECOM One** provides operators with an assurance that the information managed will always be relevant, up-to-date and accurate on the status of the installations.

Description

TELECOM One is developed and sold around a modular approach. From a source configuration, complementary modules can be acquired in accordance with operational requirements without requiring changes in the existing configuration.

The modular design of **TELECOM One** allows it to adapt for all requirements. It provides a powerful tool for every administrator regardless of the problem.

Each module matches the functional requirements of a type of operation:

1. Management of the distribution frame areas
2. Implementation of circuits
3. Administration of several operator networks

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Splice protection systems and external interconnection

Splicing closures underwater/sewer

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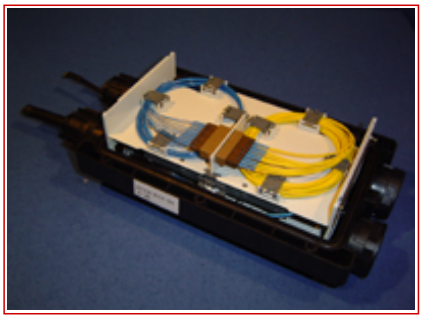
Splice Closure WTC2-FTTH

The LINX WTC-FTTH Splice case product range is designed for enclosing buried, underground and overhead optical cable splices and connectors in FTTH networks.

Description



Watertight closure for Fibre optic Cables

- 6 Cable port
- Butt Mid-Span
- Re-enterable, fully mechanical watertight system
- IP68 and Pressurizable
- Capacity: Up to 2 splice trays (96 splices)
- Multi-cable sealing system (up to 12 cables per port)

Application:

The main functions are:

- To protect splices, bare fibers, splitters and connectors from the environment and unwanted handlers
- To efficiently and easily store, manage and identify FO connections.

Standards

International Nexans specification; Telcordia GR-771

National CSE C 69-31; CSE C 69-32; FT/FTRD/7095; FT/FTRD/7097

Conception:

Sealing system:

- Fully mechanical sealing system for reduced installation and re-entry time.

The top shell, sealed with a gasket, can be easily installed and removed without special tools or torque control.

- Cable sealing devices based on a mechanical compression system allowing re-using all components for future upgrades or re-accessing to the closure. (No tape, glue, heat-shrink tubes, or cable jacket preparation is needed).

Cabling configuration:

- Standard
- Butt Mid-span
  (All available for aerial, buried, duct, or wall mounted applications)

Fibre management:

Several configurations and configurations are available for Splicing, Splitting and/or connecting fibres:

- Internal coiling + Connectors
- Splicing/Splitting + Connectors

All configurations are modular and allow easy upgrades.

Grounding:

- Standard grounding assures electrical continuity between all cable ports (an external grounding plug is also available)

Cable anchoring:

Simplified FTTH cables anchoring systems are available as well as standard high-

retention clamps.

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Splice Closure WTC2-FTTH

Characteristics

Material:	Polycarbonate closure shell
Maximum Splice capacity:	Up to 96 Heat-shrink splice protections, organized in 2 splice trays + Up to 24 MU Adapters (or 12 SC) Other WTC2 available configurations: - 5-trays Chassis w/o adapters (Each for 48 splices or 1x 1:32 splitter) - 48 SC Adapters + 2 Splice Trays (up to 96 Splices or 2x 1:32 splitter) - 66 SC or LC Adapters + 4 Splice Trays (up to 2x 1:32 splitter) - 96 MU Adapters w/o Splice Trays
Cable ports:	- 6 Standard Port or - 4 Standard port + 1 Mid-Span Port Each standard port allows: - 1 cable (up to 25mm diameter) - 2 cables (up to 15mm diameter) - 3 cables (up to 13mm diameter) - 5 cables (up to 8mm diameter) - 12 cables (up to 6.5mm diameter)
Cabling configurations:	- Straight splicing - Butt mid-span
Sealing system:	Top shell: mechanical sealing (8 screws – no torque control) Cable ports: mechanical sealing (Elastomer Compression System)
Spice supports	Heat-shrink, ANT, ATI, Focs, 3M, and mass splice protections
Fixing Accessories:	- Wall Mounting Plate - Pole Fixing - Additional Coiling Spacer (Compatible with the Pole Fixing Accessory or directly installable on walls) - Additional Rotating Coiling Frame (high capacity cable-overlenght storage)
Dimensions:	L: 500mm ; W: 262mm ; H: 179mm

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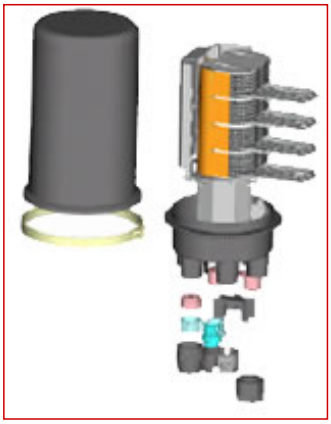
Splice Closure DCS M 2/3 FiberArt

The DCS M Splice case product range is designed for enclosing buried, underground, and overhead cable splices.

Description



Watertight dome closure for Optical Fibre

- Fully mechanical watertight system,
- 4 StandardCable port, each for up to 12 cables
- Butt Mid-Span Cable port
- Up to 288 (DCST2) or 576 (DCST3) H/S Splices,
- Up to 48 (DCS2) or 96 (DCS3) Single-Circuit trays.

Application

Cabling configuration :

- Standard,
- Butt Mid-span.

(All available for aerial, buried, duct, or wall mounted applications).

Fiber management :

FiberArt modules integrate 12 splice trays for up to 6 HS splices each, allowing single fibre management.

All configurations are modular and allow easy upgrades.

Grounding :

- Standard grounding assures electrical continuity between all cable ports (an external grounding plug is also available).

Cable anchoring :

- 3 points cable clamps for extremely high cable retention, or simplified 1 point anchoring systems are available.

The main functions are :

- to protect splices and bare fibers from the environment and unwanted handlers,
- to efficiently and easily store, manage and identify FO splices and fibers.

Conception

Sealing system :

Standards

International BT LN450;
Nexans specification;
Telcordia GR-771

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Splice Closure DCS M 2/3 FiberArt

- Fully mechanical sealing system for reduced installation and re-entry time.

The dome, sealed with a gasket, can be easily installed and removed without special tools or torque control.

- Cable sealing devices based on a mechanical compression system : this allows to re-use all components for future upgrades or re-access to the closure.

(No tape, glue, heat-shrink tubes, or cable jacket preparation is needed).

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Splice Closure DCS M 2/3 FiberArt

Characteristics

Material	Polypropylene dome Polycarbonate base
Splice capacity	DCS2: - Up to 288 Heat-shrink splice protections, organized in 4 FiberArt modules, i.e. 48 splice trays (Each tray can manage up to 6 HS splices) DCS3: - Up to 576 Heat-shrink splice protections, organized in 8 FiberArt modules, i.e. 96 splice trays (A1Each tray can manage up to 6 HS splices)
Cable ports	Refer to "Sealing Kit"
Cabling configurations	- Straight splicing - Butt mid-span
Sealing system	Top shell: mechanical sealing (metal collar – no torque control) Cable ports: mechanical sealing (elastomer compression system) IP68 and Pressurizable for flash test at 400mbars
Spice supports	Heat-shrink, ANT
Dimension	Diameter: 205mm ; L: 480mm (DCS2) or 610mm (DCS3)

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Splice/Drop Closure WTC05-FTTH

The LINX WTC-FTTH Splice case product range is designed for enclosing buried, underground and overhead optical cable splices and connectors in FTTH networks.

Description

Watertight Closure for Fibre Optic Cables

- 2 Multi-Cable port,
- Re-enterable, fully mechanical watertight system,
- IP68 and pressurizable,
- Capacity : Up to 24 Connections or 48 splices,
- Multi-cable sealing system (up to 12 cables per port).

Cabling configuration :

- Standard.

Fiber management :

Several configurations and configurations are available for Splicing, Splitting and/or connecting fibres :

- Internal coiling + Connectors,
- Splicing/Splitting.

All configurations are modular and allow easy upgrades.

Grounding :

- Standard grounding assures electrical continuity between all cable ports (an external grounding plug is also available).

Cable anchoring :

- Simplified FTTH cables anchoring systems are available as well as standard high-retention clamps.

The main functions are :

- to protect splices, bare fibers, splitters and connectors from the environment and unwanted handlers,
- to efficiently and easily store, manage and identify FO connections.

Standards

International Nexans specification; Telcordia GR-771

National CSE C 69-31; CSE C 69-32; FT/FTRD/7095; FT/FTRD/7097

Conception

Sealing system :

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- Fully mechanical sealing system for reduced installation and re-entry time.

The top shell, sealed with a gasket, can be easily installed and removed without special tools or torque control.

- Cable sealing devices based on a mechanical compression system allowing re-using all components for future upgrades or re-accessing to the closure.

(No tape, glue, heat-shrink tubes, or cable jacket preparation is needed).

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Splice/Drop Closure WTC05-FTTH

Characteristics

Material	Polycarbonate closure shell
Maximum Splice capacity	- Up to 48 Heat-shrink splice protections, organized in 4 splice trays - Up to 12/24 Adapters (SC/MU)
Cable ports	- 2 Standard port Each standard port allows: - 1 cable (up to 25mm diameter) - 2 cables (up to 15mm diameter) - 3 cables (up to 13mm diameter) - 5 cables (up to 7mm diameter) - 5 cables (up to 8mm diameter) - 12 cables (up to 6.5mm diameter) Split grommets allowing sealing pre-terminated cables are also available
Cabling configurations	- Straight splicing
Sealing system	Top shell: mechanical sealing (6 screws – no torque control) Cable ports: mechanical sealing (Elastomer Compression System)
Anchoring systems	Wall and pole anchoring systems can be fitted with a cable coiling module. Steel protections for direct burial are also available
Spice supports	Heat-shrink and mass splice protections or splitters
Dimensions	L: 390mm W: 110mm H: 121mm

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Splice Closure WTC1-FTTH

The LINX WTC-FTTH Splice case product range is designed for enclosing buried, underground, and overhead cable splices and connectors in FTTH networks.

Description

Watertight Closure for Fibre Optic Cables

- 4 Cable ports,
- Re-enterable, fully mechanical watertight system,
- IP68 and pressurizable,
- Capacity : up to 3 splice trays,
- Multi-cable sealing system (up to 12 cables per port).

Standards

International Nexans specification; Telcordia GR-771

National CSE C 69-31; CSE C 69-32; FT/FTRD/7095; FT/FTRD/7097

Application

Cabling configuration :

- Standard,
- Straight Mid-span.

(All available for aerial, buried, duct, or wall mounted applications).

Fiber management :

Several configurations and configurations are available for Splicing, Splitting and/or connecting fibres :

- Internal coiling + Connectors,
- Splicing/Splitting + connectors.

All configurations are modular and allow easy upgrades.

Grounding :

- Standard grounding assures electrical continuity between all cable ports (an external grounding plug is also available).

Cable anchoring :

- Simplified FTTH cables anchoring systems are available as well as standard high-retention clamps.

The main functions are :

- to protect splices, bare fibers, splitters and connectors from the environment and unwanted handlers,
- to efficiently and easily store, manage and identify FO connections.

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Splice Closure WTC1-FTTH

Conception

Sealing system :

- Fully mechanical sealing system for reduced installation and re-entry time.

The top shell, sealed with a gasket, can be easily installed and removed without special tools or torque control.

- Cable sealing devices based on a mechanical compression system allowing re-using all components for future upgrades or re-accessing to the closure.

(No tape, glue, heat-shrink tubes, or cable jacket preparation is needed).

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Splice Closure WTC1-FTTH

Characteristics

Material	Polycarbonate closure shell
Maximum Splice capacity	- Up to 48 Heat-shrink splice protections, organized in 4 splice trays (60 H/S splices in 5 splice trays using a special reversed tray organizer) - Up to 12 Connectors (MU, LC or SC) + up to 3 Splice/Splitter Trays - Up to 12 Connectors (MU, LC or SC) + Coiling of over-length of preterminated cables.
Cable ports	- 4 Standard port - 2 Standard port + 2 straight mid-span ports Each standard port allows: - 1 cable (up to 25mm diameter) - 2 cables (up to 15mm diameter) - 3 cables (up to 13mm diameter) - 5 cables (up to 8mm diameter) - 12 cables (up to 6.5mm diameter)
Cabling configurations	- Straight splicing - Straight mid-span
Sealing system	Top shell: mechanical sealing (8 screws – no torque control) Cable ports: mechanical sealing (Elastomer Compression System)
Spice supports	Heat-shrink, ANT, ATI, Focs, 3M, and mass splice protections
Dimensions	L: 390mm W: 178mm H: 123.5mm

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Outdoor Cabinet KLIMA

This cabinet are used as a connection point between a WAN or a telecommunications network and an access network or a local municipality network in the OSP environment.

Description

Secured and Outdoor Interconnection for Fiber Cables

Independent Cable Management Cabinet

- Secure and independent access to each side,
- Individual optical cable management,
- Allows progressive network deployment,
- Excellent connector and splice tray accessibility,
- Outdoor applications,
- Very robust design.

Construction

The cabinets are available in two configurations to correspond to different fiber counts : 96 and 288.

This cabinet is conceived for outdoor installation. The cabinet allows for the connection of up to six fiber optic cables, coming from the telecom network, to one or six optical cables belonging access network. The cabinet is a metal two compartment housing.

Each of these two symmetrical areas was conceived to:

- solidly secure the fibre optic cables,
- protect optical fibre splices inside the splice trays,
- connect the cables belonging to each part of the network via optical connectors and pigtails,
- ensure the transmission via the optical connectors in an outdoor environment,
- carry out reflectometric tests through test connectors.

Mechanical characteristics

The cabinet features a metal cover. It guarantees the cabinet protection against dust and water projection. Its protection index is IP55, and its mechanical index is IK10 according to EN60529. The cabinet can be install on pole or on a base. Cable attachment is achieved inside the cabinet.

The inside organisation by modules allows progressive network deployment and cabinet equipment. All outside metal parts can be grounded with an optional 5 mm screw-nut grounding system.

Cabinet security

The two cabinet doors are secured by keys. Key identification is ensured by the vendor. The latching device is a two point one on Klima96 and three-point one on Klima288.

Cable entries

Cable entries are at the bottom of the cabinet. An individual cable retention device

Standards

International Nexans specification

is installed in the lower part of the cabinet, supporting 100daN traction. DEP and DSM attachment devices are available (refer to technical data sheet DTS O DDD 002-UK.)

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Outdoor Cabinet KLIMA

Characteristics

	KLIMA 96	KLIMA 288
Configuration	Pole / Pedestal	Pedestal
Access	2 independent front doors	2 independent front doors
Splice Capacity	96 fibers on each side	288 fibers on each side
Patch Capacity	96 SC 72 ST, 72 FC adaptors	288 SC 72 ST, 72 FC adaptors
Cable port	4	12
Cable entries	From the bottom	From the bottom
Dimension (W x D)	850 x 290 mm - 34 x 11 in.	1100 x 250 mm - 43,5 x 10 in.
Pedestal Height	960 mm - 38 in.	1250 mm - 49 in.
Pole Height	760 mm - 30 in.	-
Material	Aluminium alloy housing	Aluminium alloy housing
Weight	15 kg - 33 lbs	30 kg - 66lbs
Standard Color	Grey Ral 7032	Grey Ral 7033

Selling delivery information

Optical Connectors

The standard patch panel is designed for 96 SC, 72 FC or 72 ST for Klima96 and 288 SC or 216 FC or ST connectors for Klima288. Optical pigtails diameter is 900µm or 1.1 mm, length is 2.5 m for Klima96, 3.1 m for Klima288.

Adaptors

48-adaptor groups (for SC only) are mounted on the patch panel situated in the middle of the cabinet, between the two areas. Each adaptor is identified by a figure visible on each side of the panel. FC and ST adaptors are also available.

In order to carry out optical tests without pigtail deterioration, an extra adaptor has been mounted inside the cabinet, in both areas, close to the cable heads.

Splice trays

Each tray can house up to 12 optical splices. Splice trays are organised by 48 fiber modules. Splice tray identification is ensured by a colour tag. Each tray can be easily accessed to store optical splices in perfect conditions.

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Subscriber solutions

The subscriber solutions represent, at the far end of the telecom network, the last fiber management equipment being at the interface with the last active equipment of the operator.

Nexans offers a full range of subscriber solutions for professional subscribers, as well as solutions for residential subscribers, up to the wall outlet inside the house or the flat (FTTH)

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CROS PLUS 1&2

The CROS PLUS 1 and CROS PLUS 2 connection boxes are the perfect solution for optical fiber connection and distribution to residential, private, collective or professional subscribers.They were conceived for telecom carriers seeking to ensure network consistency and individual line control.

Description

Features

- Individual management of the subscriber lines,
- Allows progressive cabling and therefore progressive network deployment,
- Secure and independent access to each of the user and carrier zones,
- Connector accessibility,
- Simple adaptation to various cabling structures and cabling configurations,
- A very robust design.

Construction

CROS PLUS 1 and CROS PLUS 2 are secured optical connection boxes allowing capacities of :

- 24 to 48 connectors and up to 144 splices, or 144 uncut coiled fibers storage for CROS PLUS 1.
- 72 to 96 connectors and up to 288 splices, or 288 uncut coiled fibers storage for CROS PLUS 2.

The box is a metal two-compartment housing.

Each of the two sections is secured by the means of a lock :

- the left one houses the subscriber access connector zone,
- the right one houses cable entries, splicing trays and coiled fibers

Technical Description

They are delivered pre-equipped with :

- a patch panel,
- cable entry for 3 cables with 13mm max. diameter for CROS PLUS 1,
- FiberArt™ or standard cassette splicing modules fitted with tube and pigtail affix accessories,
- one or several oval ports for mid span access and 2 to 6 auxiliary cable entries for a 19mm maximum cable diameter for CROS PLUS 2,
- top* and bottom jumper or drop cable guiding devices,
- two-key security system -one unique key for the carrier, one key for the subscriber.

* No top jumper entry for the Protection Index IP45 version.

Standards

International Nexans specification

Selling delivery information

See the specific Datasheet for each product

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Cros Premium Outdoor

The CROS PREMIUM connexion boxes were conceived for telecom carriers seeking to ensure network consistency and individual line control, for GPON, LAN and utility substations and customer premises.They are the perfect solution for optical fibre connection and distribution to residential or small professional units.

Description

Features

- Individual management or splitters for subscriber lines,
- Secure and independent access to each of the user and carrier zones,
- Connector accessibility,
- A robust design.

Technical Description

The CROS PREMIUM OUTDOOR connection box is delivered pre-equipped with :

- A patch panel,
- A patch cord guiding device,
- A standard splicing cassette supporting splitters (pre-connetirization available)
- Optical cable entries (from the bottom) for a 32 mm maximum cable diameter,
- A two-key security system - one unique key for the carrier, one key for the subscriber
- A protection class IP 54 (optional IP 64 with sealing)

Design

Cros Premium Outdoor is a very compact secured optical connection box allowing capacities of 16 connectors.

The box is a plastic housing with two compartments.

Each of the two sections is secured by the means of a lock :

- the right one houses the subscriber access connector zone,
- the left one houses cable entries, the splicing tray and coiled fibres.

Standards

International Nexans specification

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Cros Premium Outdoor

Characteristics

Construction characteristics	
Colour	Grey
Dimensional characteristics	
External dimensions	223 x 391 x 124 mm

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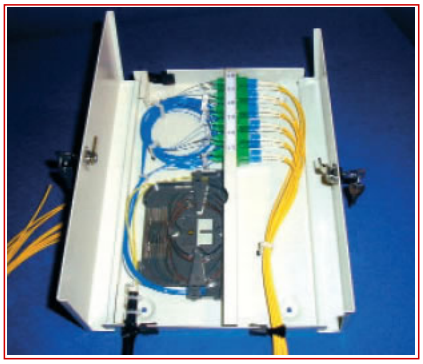
CROS PREMIUM

The CROS PREMIUM connexion boxes were conceived for telecom carriers seeking to ensure network consistency and individual line control, for LAN and utility substations and customer premises.They are the perfect solution for optical fibre connection and distribution to residential or small professional units.

Description



Features

- Individual management of the subscriber lines,
- Secure and independent access to each of the user and carrier zones,
- Connector accessibility,
- A robust design.

Technical Description

The CROS PREMIUM connection box is delivered pre-equipped with :

- A patch panel,
- A patch cord guiding device,
- A standard splicing cassette,
- Two optical cable entries (one from the top, one from the bottom) for a 13 mm maximum cable diameter,
- A two-key security system - one unique key for the carrier, one key for the subscriber
- A grounding point at the bottom of the box.

Design

CROS PREMIUM is a very compact secured optical connection box allowing capacities of 12 connectors and splices maximum.

The box is a metal housing with two compartments.

Each of the two sections is secured by the means of a lock :

- the right one houses the subscriber access connector zone,
- the left one houses cable entries, the splicing tray and coiled fibres.

Accessories

A ground kit. Réf. CODE : 58843

Standards

International Nexans specification

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CROS PREMIUM

Characteristics

Construction characteristics	
Colour	White RAL 9002
Dimensional characteristics	
Width	240 mm
Height	345 mm
Approximate net weight	2.5 kg
Depth	45 mm

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BOX MDB 06/12 (Transition equipment)

The Fiber Optic Distribution Boxes are intended to be used for subscriber zone wiring as well as for reconfigurable work areas.

Water proof
IP 30

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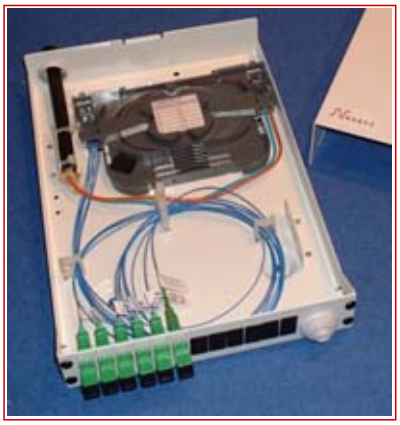
BOX MDB 06/12 (Transition equipment)

Description



Features

- Compact Splicing and Patching functions,
- Compatible with major FO connectors,
- Up to 12 connectors and splices,
- Horizontal or Wall Mount indoor Installation.

Application

Accepting the range of ST, SC, E2000 and FC adapters.

Fully manufactory pre-equipped, these indoor distribution boxes ensure reliable and easy installation on site. They also help saving time on site for a cost effective installation.

Standards

International Nexans specification

Installation

For mounting on a flat surface (on wall, under raised floor, or drop ceiling).

The Distribution Box is supplied with one splice cassette and can be pre-equipped with adapters, pigtails and additional tie wraps.

Easy Identification.

Version

- Equipped with a splice cassette, the Distribution Box will allow the splicing of a fiber optic cable to pigtails.
- Without cassette, the Distribution Box is intended to be used with pre-terminated cables for direct patching. Cables are fasten with supplied standard plastic collars.

Compatibility

Suitable for :

- Tight buffer cables (direct termination) or Loose tube cables using pigtails.
- 12 fibres per box.
- Ribbon fibre.

Water proof
IP 30

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BOX MDB 06/12 (Transition equipment)

Characteristics

Construction characteristics	
Cable entry	From the front and from the rear
Dimensional characteristics	
Length	300 mm
Width	200 mm
Depth	50 mm
Maximum outer diameter	20 mm
Minimum outer diameter	3 mm
Usage characteristics	
Water proof	IP 30

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BOX FTTx DB 12 (Transition equipment)

Accepting 6 SC Duplex adapters, the Micro Module Distribution Boxes are intended to be used for deployment of micro cable using blowing technique, typically for FTTB or FTTH applications. A large area is dedicated to coiling and storage of uncut FO cables.

Description

Features

- Progressive Equipment and Splicing,
- Easy Storage of Micro Cable,
- Large and Accessible Cable Coiling Area,
- Removable Splice Trays,
- Up to 12 connectors and 24 splices,
- Horizontal or Wall Mount indoor Installation.

Application

The box can be progressively equipped with one or two splice trays for splicing fibers to pigtails or to outgoing cables. Its simple design also help saving time on site for a cost effective installation.

Conception

The Distribution Box is made of coated stainless steel. 3 Cable entries are provided on the same side, two of them can accept uncut cables.

The Box contains four large cable guides and three plastic guides for pigtails. Equipped with one or two splice trays, the Distribution Box will allow the splicing of a fiber optic cable to pigtails or to cables. Cables are fasten with supplied standard plastic collars.

Installation

- Indoor application.
- For mounting on a flat surface (on wall, under raised floor, or drop ceiling).
- The Distribution Box is supplied with or without splice tray and can be pre-equipped with adapters, pigtails and additional tie wraps.

Compatibility

Suitable for :

- Micro cables or Loose tube cables for splicing to pigtails.
- Ribbon fibre.
- 12 or 24 fibres per box.

Standards

International Nexans specification

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BOX FTTx DB 12 (Transition equipment)

Characteristics

Construction characteristics	
Connector type	SC Duplex
Dimensional characteristics	
Width	230 mm
Length	300 mm
Depth	74 mm

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BOX FTTx ITB (Transition equipment)

This Indoor Transition Box is a compact cabinet designed for splicing high fiber count or backbone cable to multiple drop cables. The drop cable retention system, based on silicon grommet, is particularly adapted for micro cables or blown cables in micro tubes. Its simple design also help saving time on site for a cost effective installation.

Description

Features

- Up to 48 Splices,
- Splice trays adapted for PON couplers,
- Mid Span Access for Main Cable,
- Up to 36 cables outgoing,
- Suitable for Micro Tubes or Blown Micro Cables,
- Large and Accessible Cable Coiling Area,
- Optional Secured Access.

Conception

The Transition Box is made of coated stainless steel.

The box, can house 2 to 4 splice trays.

Cable entries :

1 mid span for uncut main cable , and up to 36 for drop cables depending on cable diameters.

Cable anchoring :

3 points cable clamps for extremely high cable retention, or simplified 1 point anchoring systems are available.

The Box contains four large cable guides on the lower lever of the box for easy coiling of FO tubes and bundles.

The extended cover protects cables at the transition with the cable ducts. It can be equipped with a lock as an option.

Installation

- Indoor Application.
- Wall-mounting on a flat surface.
- The Transition Box is supplied with 2 splice trays and can be equipped up to 4 splice trays.

Standards

International Nexans specification

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BOX FTTx ITB (Transition equipment)

Characteristics

Dimensional characteristics	
Width	230 mm
Length	300 mm
Depth	95 mm

Configuration figures

Code	DESCRIPTION
10100026	Standard Box equipped with two splice trays and one DSM
10100027	Secured Box equipped with two splice trays and one DSM
10077908	Heat-Shrink Splice Protection (60 mm)

Additional splice tray and Secondary cable entries must be ordered separately.

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FDO 2G (Floor Distribution Outlet)

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FDO 2G (Floor Distribution Outlet)

Description

Main benefits

- Branching capacity of up to 12 OF Drops
- Vertical opening for Passing-through cables
- Up to 4 coiling areas to prevent mixing incoming (connected and non connected) and outcoming fibers and bundles
- Compatible with H/S, and Mechanical splices
- Wall flat design

Application:

The Floor Distribution Outlet product range is designed for branching optical fibre drops from a distribution cable in Multi-dwelling Units and Business locations (FTTH / FTTB). FDO2Gs are designed for indoor wall mounting and branching of distribution cables and drop cables coming from the bottom or from the top (when the box is turned upside down).

Standards

International Nexans specification

Main functions:

- To connect indoor optical distribution cables to drop or floor-distributions optical cords assuring splice management, cable anchoring, optical fibre over length storage and re-accessibility
- To protect splices and bare fibres from the environment and unwanted handlings
-

Description:

Cabling Configuration

- Incoming Distribution optical cables can be either terminated or Mid-Span accessed and spliced (mechanical or fusion splices) to single of drops or floor distribution cables.
- In the base, a coiling area allow to manage length of tubes, bundles or fibers
- A rotating splice tray allows connecting new subscribers going with the flow preventing any risk to disturb or damage fibers and subscribers with ongoing services. To achieve this, the tray has up to 3 different coiling areas : one for the connected incoming fiber, one for the non connected incoming fiber (waiting for to be connected), and one for the outcoming fibers
- Up to 12 mechanical or fusion splices can be stored on the integrated splice support of the tray

Wall Mounting

- Wall mounting is achieved by fixing the base plate directly on the wall (by mean of two screws and expansion taps)
- The plastic lead is hold in place by a clip-in mechanism

Cable anchoring

- The distribution cable is fixed thanks to tie raps (included) and strength members clamps (freely positionable on the right or the left)
- Drops or Floor Distribution cables are anchored on the universal drop cable clamp using plastic tie-raps (included)

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SHTO

Description

Main benefits

- Termination for up to 2 OF (Simplex or Duplex SC adaptor)
- Optional RJ adapter
- Wall-flat design
- 2 coiling areas

- Compatible with H/S, and Mechanical Splices and field-termination Connectors

Standards

International Nexans specification

Application:

The Optical Terminal Outlet SHTO product range is designed for terminating up to 2 optical fibres in residential and Business applications (FTTH). A copper termination is also possible thanks to a RJ adapter.

Main functions:

- To provide a terminal interface with the subscriber managing cable entrance and anchoring, fiber coiling, fiber splicing and optical connexion through an adapter.
- To allow an easy re-access
- To protect splices and bare fibres from the environment and unwanted handlings.

Description:

The outlet

The outlet is made of 3 plastic parts which assemble:

- wall spacer fixed on the wall
- the base fixed on the wall spacer
- the cover fixed on the base

Cabling Configuration

- If optical cable is coming from the surface of the wall, one of the breakable entrances of the wall spacer must be opened.
- The wall spacer is then fixed on the wall while the cable is passing through the opened entrance or coming directly from the inside of the wall.
- The base is then fixed on the wall spacer
- The incoming cable is fixed on the base thanks to one tie rap on one of the 2 “T shape” cable clamps.
- The SC pigtail or the SC Splicing Connector is installed
- If needed the splice(s) are installed in the splice holder of the base
- The fiber is then coiled with the 2 coiling areas in the base.
- In case of hybrid version with a copper adapter, a coiling box inside the wall is needed. The copper cable must come from this box inserted in the wall an disconnected to the back of the copper adapter

Wall fixing

- Fully optical or hybrid, the wall spacer of the SHTO is fixed on the wall with 3 screws and expansion taps (provided)
- The base is fixed on the wall spacer thanks to a positioning tab and a screw (provided)
- The cover is simply clipped on the base

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SHTO

SHTO features

Material:	Wall spacer, base and cover : Polycarbonate ; Colour: RAL9010 (grey)
Temperature	-20 / +50°C
Splicing:	Up to 3 fusion splices or mechanical splices in the base
Coiling capacity	- 2 coiling areas in the base with one area specially suited for bend insensitive fiber
Protection:	Indoor use
	Optical adapter in vertical position (bottom)
Fixing	Wall fixing of the wall spacer with 3 screws and expansion taps (provided)
	Fixing of the base on the wall spacer with 1 positioning tab and 1 screw
Optical connections	Simplex or Duplex SC adapter possible (not provided)
	Optical input : Up to 2 fiber cable with a diameter up to 6 mm coming from the rear, the side (left or right) or the bottom of the outlet
Copper Connection	RJ11 or RJ45
	Cable input: only coming from the rear through a wall-inserted box (not included)
Size:	Height: 120 mm ; Width: 70 mm ; Depth : 29 mm
Breaking down	1 wall spacer
	1 base
	1 blank panel (assembled) or a RJ11 adapter or a RJ45 adapter
	1 coiling ring (assembled)
	1 cover
	1 tie rap
	1 instruction manual (in English)
	3 screws and expansion taps for wall spacer fixing
	1 screw for base fixing on the wall spacer
Variants and Nexans references	SHTO SCS FO S: Fully optical SC simplex outlet : 10137393
(optical adapter not included)	SHTO SCD FO S: Fully optical SC duplex outlet : 10137454
	SHTO SCS 11 S: RJ11 and SC simplex outlet : 10137455
	SHTO SCD 11 S: RJ11 and SC duplex outlet : 10137456
	SHTO SCS 45 S: RJ45 and SC simplex outlet : 10137457
	SHTO SCD 45 S: RJ45 and SC duplex outlet : 10137458
Optionnal accessories	SC/PC Simplex or Duplex adapter
	SC/APC Simplex or Duplex adapter
	Bend insensitive SC/PC pigtail (G657)
	Standard fiber SC/PC pigtail (G652)
	Mechanical splice
	SC Field installable connector (Splicing connector)

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Cable retention and fan-out devices

Crossconnect cabinets/pedestals

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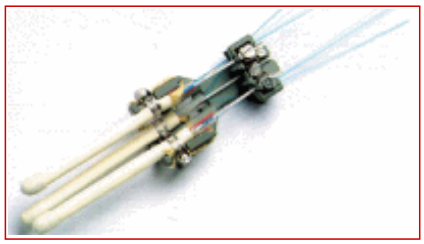
Cable clamp 3 cable

- Flexibility,
- Reliability,
- Compacity,
- Ruggedness.

Description



Function :

The cable clamp for 3 optical cables holds into place the various elements making up the cable (strength member, aramid, sheath). It is mounted on all equipment structures where optical cables haves to enter. It is designed for optical cables corresponding to the following configurations :

- 3 cables with a max. external diameter of 8mm,
- 2 cables with a max. external diameter of 12mm,
- 1 cable with a max. external diameter of 25mm, and supports all cable structures (slotted core, tube, ribbon); the minimum diameter is 6mm.

Mounting of the cable clamp :

The cable clamp for optical cable consists of a zamak support on which the retaining devices for the cable elements (strength member, aramid, sheat). The cable clamp is mounted into place by means of a screw M3X25 supplied with the equipment.

Technical data :

Characteristics
Pulling strength > 100daN

Associated equipment :

- Organiser for :
  On-line Splicing Point (PEL)
  On-line Flexibility Point (PFL)
- Splicing cassettes
- Secondary fanout devices (DES).

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Cable clamp 3 cable

Product List

Nexans ref.	Country ref.	Name
	41138	Cable clamp for 3 drop cables
	42236	Cable clamp for 3 drop cables with brace for 80 rack
	41771	Cable clamp for 3 drop cables with brace for frame
	42727	Primary fan-out for 3 cables

= Make to order, = Make to stock

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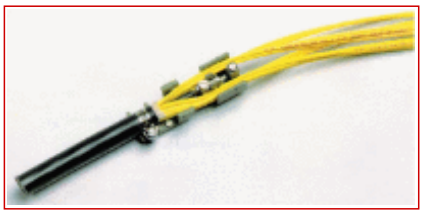
Cable clamp 1 cable

- Flexibility,
- Reliability,
- Compacity,
- Ruggedness.

Description



Function :

The cable clamp for 1 optical cable holds into place the various elements that make up the cable (strength member, aramid, sheath).

It is mounted on all equipment structures where optical cables have to enter.

It is designed for optical cables having an external diameter between 8 and 25 mm and supports all cables structures (slotted core, tube, ribbon).

Mounting of cable clamp :

The cable clamp for optical cable consists of a zamak cable support on which the retaining devices for the various cable elements (strength member, aramig, sheath) are fixed.

Foam pads protect bare or ribbon-type fibres where they leave the cable. The clampis mounted into place by means of a fastening hook and a screw M3X25 supplied with the equipment.

Technical data :

Characteristics
Pulling strength > 100daN

Associated equipment :

- Secured cabinets :CROS 12, CROS 24/36, BTI 36/72,
- Optical cable heads 72 connectors,
- Optical racks 12/24 connectors,
- Cable heads 12 fibres/storage rack,
- Splicing cassettes,
- Secondary fanout devices (DES).

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Cable clamp 1 cable

Product List

Nexans ref.	Country ref.	Name
	94059	Cable clamp for 1 optical cable

= Make to order, = Make to stock

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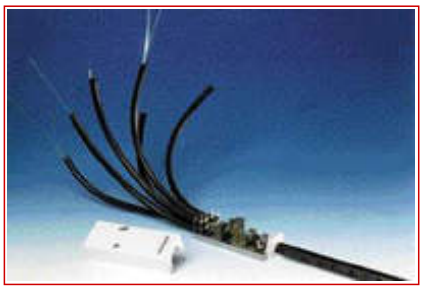
DEP-144/288

- Max capacity : 288 fibres with,
- Tubes are easily fixed by wedging without any tool or crimping of end fittings required,
- Can be used with all existing cable structures (slotted core),
- Used for routing and protecting fibres and tubes, racks or cabinets.

Description



Function :

The DEP has been desingned for clamping the cable and fibres.

For routing the ribbons towards the cable heads or the systems, it is necessary to protect them with diam. 8,5 mm tubes fixed in the fanout device.

This device can also be used to protect loose tubes from the network cable until cable heads.

Description :

The enhanced protection DEP consists of a case which contains all the components to hold the cable sheath, the strength member(s) and the aramid yarns. At the exit, a tuber holder allows the fixation of 6 x 8,5mm diam. tubes (tube tensile load > 10daN).

Protective tubes must be ordered separately.

This device can be fixed directly on anypitch spacing of 34mm with 2 supplied M3 x 4 fixing screws (see the picture). It can also be installed in 19" frames.

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DEP-144/288

Product List

Nexans ref.	Country ref.	Name
	43695	Primary fanout device for cable - 6 tubes out
	43708	Primary fanout device for cable - 6 tubes out - 19"" frame
	43707	Primary fanout device for cable - 6 tubes out - 80 mechanic
	43729	Ringer tube Ø 8,5 mm (metre)

= Make to order, = Make to stock

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DEP-DFC-DSM

- High cable retention
- 1 to 3 retention points
- All suitable for both Mechanical and Heat-shrink cable sealing technologies

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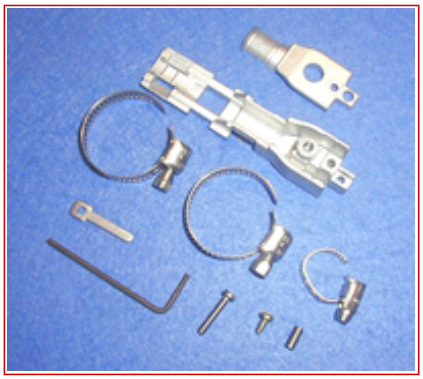
DEP-DFC-DSM

Description



Application :

The Cable Clamp product range is designed for anchoring FO and Hybrid cables into Nexans Splice Closures, ODF and FO Boxes.

The main functions are :

- to secure the cable during and after the installation
- to retain cables and strength members from pulling or torsion forces
- to efficiently route FO elements inside the equipment.

Description :

DEP :

- DEP is a 3-points cable clamp for cables of up to 19mm diameter.
- It also allows re-tubing of loose elements cables.
- It can withstand pulling forces of more than 100Kg, and the retention is made on the strength member, aramide yearns, and cable outer jacket.

DFC :

- DFC is 3-points cable clamp for cables of up to 35mm diameter.
- It can withstand pulling forces of more than 100Kg, and the retention is made on the strength member, aramide yearns, and cable outer jacket.

DSM :

- DSM is an easy-to-install 1-points or 2-points cable clamp for cables of up to 32mm diameter.
- It can withstand pulling forces of more than 100Kg, and the retention is essentially made on the strength member.

Grounding :

- All cable clamps are conductive and comply with Bellcore GR771 5.2.1 (Bond Clamp Retention) and 5.2.2 (AC Fault Test)

Caracteristics :

Material	-Clamp Body: ZAMAC Alloy (moulded metal) -Components: Stainless Steel
Cable retention	- DEP: up to 100daN with cables with strength member - DFC: up to 100daN with cables with strength member - DSM: up to 100daN with cables with strength member (30daN using a plastic collar)

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Calibration and tools

Optical passive telecom network are of course composed of cables, cables accessories and assemblies, optical distribution frames, splice protection systems, subscribers terminations, but not only.

Operators need also tools and optical components like couplers, splitters, filters, Multiplexers for a passive management of light.

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Telecom interconnect cables

From telecommunication, commercial and military electronics to aerospace applications, Nexans strives towards the same objective: to design, manufacture and distribute high performance data transmission cables vital to high technology industries.

The performance synergies between these industries keep Nexans at the leading edge providing productsand solutions that best meet your interconnection requirements.

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Hybrid cables

Hybrid cables have been designed for **Mobile Communication Network** and especially for **FTTA applications** (Fiber to the Antenna)

They offer in one single cable both Data transmission (using Mono mode or Multi mode fiber) and power supply (AC / DC - using
class5 copper conductors) with reduced halogen insulation.

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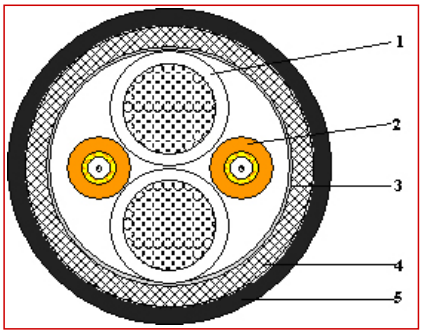
Outdoor cables with overall tin plated copper braid

Multimode Fiber Optic Cable for FFTA
Fiber Optic cable for Mobile Communication between base station and Antenna (FFTA) for 3G and beyond

Description



Construction

Multimode optical fiber + Copper

1/ 2 wires

- Conductor : tinned copper
- Insulation : Halogen free

2/ 2 or 8 patch cord

- Core : Silica, diameter : 50µm
- Cladding : Silica, diameter : 125µm
- Buffer : Thermoplastic Elastomer, diameter : 900µm
- Reinforcement : Aramide yarn

3/ Polyester separator tape

4/ Tin plated copper braid

5/ Outer jacket

- In & Outdoor halogen free

Standards

International IEC 60794-1

National NF C 32-070/C2

Optical fiber properties (cabled)

Attenuation:

- Attenuation **at 850 nm** : < 3.50dB/Km
- Attenuation**at 1300 nm** : < 1.00dB/Km

Bandwidth

- Bandwidth **at 850 nm**: < 200MHz
- Bandwidth**at 1300 nm** : < 500MHz

Color code

- Item 1 : white with black marking "1 and 2"
- Item 2 : orange with black marking "1 and 2"
- Item 4 : black

Electrical properties

Operating temp. range
-25 .. 80 °C

Storage temperature, range
-30 .. 85 °C

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Outdoor cables with overall tin plated copper braid

Operating voltage : up to 250 Vac

Mechanical properties

Loading resistance :

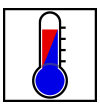
- Installation : 70daN
- Operation : 30daN

Crush resistance:

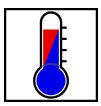
- Installation : 200N/cm
- Operation : 80N/cm

Minimum bending radius:

- Installation : 70mm
- Operation : 140mm



Operating temp. range
-25 .. 80 °C



Storage temperature, range
-30 .. 85 °C

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Outdoor cables with overall tin plated copper braid

Characteristics

Usage characteristics	
Operating temperature, range	-25 .. 80 °C
Storage temperature, range	-30 .. 85 °C

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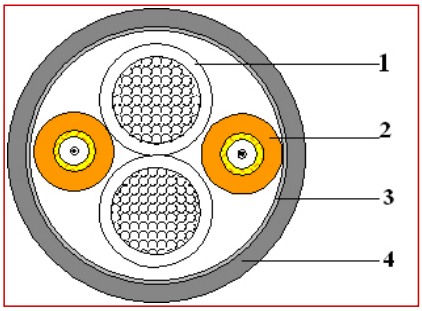
Outdoor hybrid cables (unshielded)

Multimode Fiber Optic Cable for FFTA
Fiber Optic cable for Mobile Communication between base station and Antenna (FFTA) for 3G and beyond

Description



Construction

Multimode optical fiber + Copper

1/ 2 wires

- Conductor : tinned copper
- Insulation : Halogen free

2/ 2 or 8 patch cord

- Core : Silica, diameter : 50µm
- Cladding : Silica, diameter : 125µm
- Buffer : Thermoplastic Elastomer, diameter : 900µm
- Reinforcement : Aramide yarn

3/ Polyester separator tape

4/ Outer jacket

- In & Outdoor halogen free

Standards

International IEC 60794-1

National NF C 32-070/C2

Optical fiber properties (cabled)

Attenuation

- Attenuation **At 850 nm** : < 3.50dB/Km
- Attenuation **At 1300 nm** : < 1.00dB/Km

Bandwidth

- Bandwidth **At 850 nm** : < 200MHz
- Bandwidth **At 1300 nm** : < 500MHz

Color code

- Item 1 : white with black marking "1 and 2"
- Item 2 : orange with black marking "1 and 2"
- Item 4 : black

Electrical properties

Operating voltage : up to 250 Vac

Mechanical properties

Operating temp. range
-25 .. 80 °C

Storage temperature, range
-30 .. 85 °C

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Outdoor hybrid cables (unshielded)

Loading resistance :

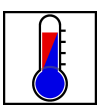
- Installation : 70daN
- Operation : 30daN

Crush resistance:

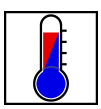
- Installation : 200N/cm
- Operation : 80N/cm

Minimum bending radius:

- Installation : 70mm
- Operation : 140mm



Operating temp. range
-25 .. 80 °C



Storage temperature, range
-30 .. 85 °C

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Outdoor hybrid cables (unshielded)

Characteristics

Usage characteristics	
Operating temperature, range	-25 .. 80 °C
Storage temperature, range	-30 .. 85 °C

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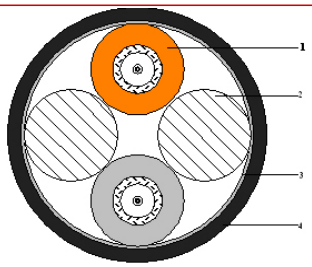
Special cables

Multimode Fiber Optic Cable for FFTA
Fiber Optic cable for Mobile Communication between base station and Antenna (FFTA) for 3G and beyond

Description



Construction

Multimode optical fiber

1/ 2 patch cord

- Core : Silica, diameter : 50µm
- Cladding : Silica, diameter : 125µm
- Coating : Acrylate, diameter : 245µm
- Buffer : Thermoplastic Elastomer, diameter : 900µm
- Reinforcement : Aramide yarn
- Jacket : PVC

2/ PVC fillers

3/ Non weave tape

4/ Outer jacket : PVC

Standards

International IEC 60794-1

National NF C 32-070/C2

Optical fiber properties (cabled)

Attenuation

- Attenuation **At 850 nm** : < 3.50dB/Km
- Attenuation **At 1300 nm** : < 1.00dB/Km

Bandwith

- Bandwidth **At 850 nm** : < 400MHz
- Bandwidth**At 1300 nm** : < 800MHz

Color code

- Item 1 : orange and grey
- Item 4 : black

Mechanical properties

- Good resistance to UV
- Breacking load : 50daN
- Crush test : 250N/cm
- Bending in installation / operation : 55 mm / 110 mm

Operating temp. range
-40 .. 80 °C

Storage temperature, range
-40 .. 80 °C

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Special cables

Characteristics

Usage characteristics	
Operating temperature, range	-40 .. 80 °C
Storage temperature, range	-40 .. 80 °C

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Interconnect pairs & quads cables

With a large “indoor” product portefolio (cables for switching, access, data transmission or mobile network), Nexans is a worldwide supplier. Strictly conform to global customer requirements, Nexans is also able to manufacture products which are conform to UL and CSA standards.

Miniaturization, electromagnetic protection, safety (for people and goods), resistant to temperature fluctuation and chemicals, weight and space saving, etc. …

Nexans answers to all of this challenge and has a well-known reputation in innovation and performances.

Nexans Datacom, and its R&D division, propose customized solutions (cables and cords) for installation and interconnect markets. With a high technological level, Nexans Datacom has a real knowledge for new application such as : unbundling, UMTS, xDSL, etc. …

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LF pairs & multi-pairs cables

For low frequency telecom transmission, this pairs and multipairs cables (miniaturized or not) are used in switching, ADSL ...

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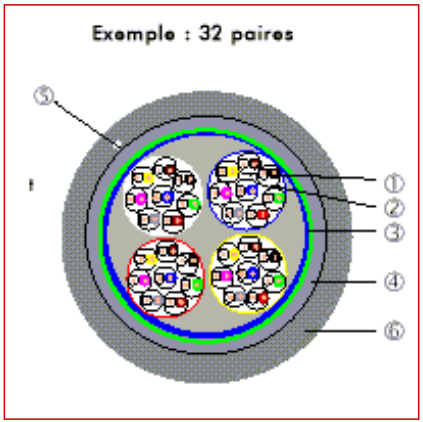
L804 serie

Applications
Low frequency multipair cables.
Indoor installation for commutation devices.

Description



Construction

1. **Conductor** : solid, 0.4 mm diameter.
2. **Insulation** : Polyethylen
3. **Core lay-up** : 2 conductors in pairs under polyester tape.
   32 pairs cables are laid up into 4 bundles of 8/2.
   128 pairs cables are laid up into 4 bundles of 4x8/2.
4. **Overall screen** : braid
5. **Ripcord** facilitating the removal of the sheath
6. **Outer sheath** : PVC grey colour according to NF C 32-062/1

Colour coding

8 pairs bundles are laid up with alternate colours : White, Blue, Yellow, Brown.

128 pairs cables are laid up into 32 pairs bundles with alternate colours : White, Blue, Yellow, Brown.

128/2 cables have in addition 2 pairs : White + Blue and White + Yellow.

Pairs	1	2	3	4	5	6	7	8
Cond. 1	White	White	White	White	White	White	White	White
Cond. 2	Blue	Yellow	Brown	Black	Green	Orange	Grey	Violet

Filotex®

Standards

National NF C 32-062/1;
NF C 32-070/C2

Operating temp. range
-40 .. 85 °C

Flame retardant
C2, NF C 32-070

Electro magnetic interference resistance
Yes

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L804 serie

Characteristics

Construction characteristics	
Conductor material	Bare copper
Insulation	PE
Screen	Tinned copper braid
Outer sheath	PVC
Sheath colour	Grey
Dimensional characteristics	
Conductor diameter	0.4 mm
Electrical characteristics	
Characteristic impedance at 1MHz	105 Ohm
Precision of the characteristic impedance	10 +/- Ohm
Maximal capacity at 800Hz	57.5 nF/km
Capacitance unbalance pair to ground	1000 pF/km
Ohmical resistance of the insulation at 200 V , min.	5000 MOhm.km
Loop resistance, max. at 20°C	300 Ohm/km
Transmission characteristics	
Attenuation, max. 1 MHz	28 dB/km
Crosstalk, min. at 100 kHz	60 dB
Usage characteristics	
Operating temperature, range	-40 .. 85 °C
Flame retardant	C2, NF C 32-070
Electro magnetic interference resistance	Yes
Packaging	Drum

Product List

Nexans ref.	Country ref.	Name	Number of pairs	Max. outer diam. (mm)	Length (m)	Approx. weight (kg/km)
1074601	01074601	L804 serie 128 P drum of 250 m	128	22.5	250	580
10068192	01074602	L804 serie 128 P drum of 500 m	128	22.5	500	580
10040269	01074600	L804 serie 32 P drum of 500 m	32	11	500	159

= Make to order, = Make to stock

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HF pairs & multi-pairs cables

Used for **High Speed transmission**, these cables are particularly recommanded in Storage Area Network, Serial ATA, Infiniband,
10 Gbit Ethernet, 10 Gbit fiber channel etc...

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CopperPlus 100 indoor cables

Description

Applications

Cables for high-bit rate and data applications, up to 100 MHz. The product range goes from 12 to 100 pairs

Instalation

Indoor plant cables for the access network

Construction

1. Conductor:
   - Electrolytic copper, 0,51 mm diameter
2. Insulation:
   - Solid poliyethylene
3. Pairing:
   - Short pitch pairs. Even-count color code
4. Stranding:
   - Basic units of 25 pairs
5. Core wrapping:
   - Polyester tape with overlaping
7. Drain wire:
   - Tinned copper, 0.51 mm nominal diameter
8. Screening:
   - Overlapped aluminium foil
9. Sheating:
   - PVC
10. External marking:
    - User defined, including meter count

Standards

International IEC 61156-1

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CopperPlus 100 indoor cables

Characteristics

Construction characteristics	
Outer sheath	PVC
Drain wire	Tinned copper 0.5 mm diameter
Screen	Aluminium tape
Lay Up	Short pitch pairs
Conductor material	Electrolytic copper
Dimensional characteristics	
Conductor diameter	0.5 mm
Electrical characteristics	
Capacitance unbalance pair to pair	45 pF/500m
Capacitance unbalance pair to ground	500 pF/500m
Dielectric strength core to core DC, min.	5.0 kV
Dielectric strength core to screen DC, min.	10.0 kV
Characteristic impedance, 0.3 MHz < f < 1 MHz	100 Ohm
Impedance 1-100 MHz	100 Ohm
Insulation resistance after 1 minute 500 V DC	20000 MOhm.km
Resistance unbalance DC max % of loop resistance	2 %
Max. DC-resistance of the conductor at 20° C	93 Ohm/km
Mutual capacity at 800 Hz, nominal	52 nF/km
Transmission characteristics	
Attenuation at 1 Mhz	2 dB/100m
Attenuation, max. 10 MHz	6.5 dB/100m
Attenuation, max. 20 MHz	9.3 dB/100m
Attenuation, max. 60 MHz	17.50 dB/100m
Attenuation, max. 100 MHz	22.00 dB/100m

Transmision features

Parameter	Unit	Value	Standard
Return loss			
1 MHz < f < 20 MHz	dB / 100 m	12	IEC 61156-1
20 MHz < f < 100 MHz		23 -10 * log(f/20)	
Group delay			
0,3 MHz < f < 2 MHz	ns / 100 m	570	IEC 61156-1
Individual PSNEXT			
1 MHz	dB	62	IEC 61156-1
10 MHz		47	
20 MHz		42	
40 MHz		38	
60		36	
100 MHz		32	
Individual PSELFEXT			
1 MHz	dB / 100 m	61	IEC 61156-1
10 MHz		41	
20 MHz		35	
40 MHz		29	
60 MHz		25	
100 MHz		21	

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CopperPlus 100 indoor cables

Selling delivery information

Product specifitation: ET-3018-2 (different pair-counts avaliable)

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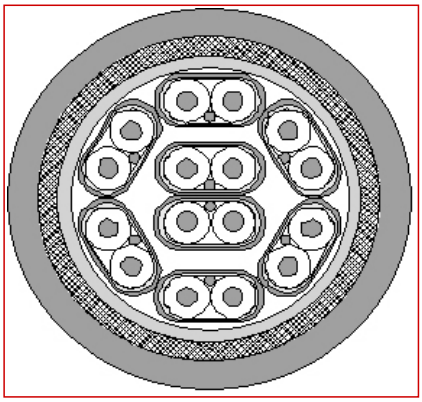
TWINAX 100 Ohm

Description



Application

The TWINAX 100 Ohm high speed cable range is designed to meet the DataCom network requirements and are more particularly those for high speed transmissions : Storage Area Network, Serial ATA, Infiniband, 10 Gbit Ethernet, 10 Gbit Fiber Channel.

Construction

1 - Twinax

Silver plated copper conductor

Texfoam insulation

Tinned plated copper drain wire

Polyester / Aluminium tape (aluminium inside)

Polyester glued tape

2 - Polyester tape

3 - Screen

Tinned copper braid

4 - Jacket

PVC lead free for the whole range.

Other jacket materials are available upon request such as HFFR (Halogen Free Flame Retardant)

Color code

Twinax wire : both white, identification of the wires possible with respect to the drain wire or marking Twinax identification : numbered 1 to 8 (7 and 8 are centered)

The cable range presents enhanced electrical performances :

Standards

International IEC 60332-1

EMI

Electro magnetic interference resistance
Yes

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TWINAX 100 Ohm

- Low attenuation, low cross talk, low reflection (no attenuation suck outs)
- Low skew :
  - Internal skew : within the same pair
  - External skew : within two pairs in the cable

Performances

The performances are guaranteed by full electrical testing including Eye Pattern Diagram.

Electro magnetic interference resistance
Yes

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TWINAX 100 Ohm

Characteristics

Usage characteristics	
Electro magnetic interference resistance	Yes

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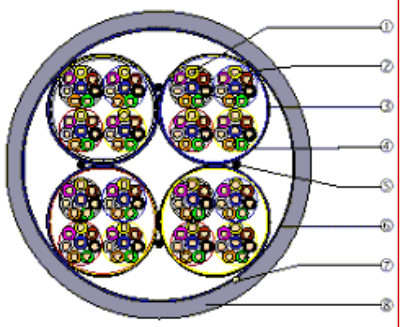
xDSL twisted pairs or quads indoor cables

Key benefits

- Wide availability: with 70% market share, Nexans is continuing to sell to all major telecom players, who appreciate the ready supply of a standard product
- Guaranteed data speeds: we specify the electrical performance according to crosstalk, impedance and attenuation to 10 MHz and up to 60 MHz for our top line
- Future proof: you can easily move from ADSL and ADSL 2+ and higher using the same cables, or offer multi xDSL services simultaneously
- Easy installation: a smaller cable with an easily removable, non-sticking sheath; and insulation especially suitable for IDC (insulation displacement connector) or wire wrap
- Customized color code: can be delivered to your specifications, or national color coding
- Excellent EMC performance: because of good “balance” obtained by careful twisting and screening
- Fire safety: all cables are available in Halogen-Free, Fire-Retardant versions (HFFR)

Description



Filotex®

Nexans Expertise

The Nexans expertise is an overall management of the industrial process to guarantee performance level in the frame of the described application , especially in terms of :

- **performance in terms of low crosstalk** based on the design and manufacturing process.
- **performances in terms of attenuation** based on an optimum compromise between dimensions and electrical performance.
- **performances in terms of screening effectiveness** based on the high balance of the pairs and the use of optimized screen designs (bundle and/or cable screening with screening foil and or braid.
- **performance in terms of ease of connector mounting** based on the use of polyolefin insulation allowing wrapping and IDC and a bundle design adapted to the modularity of the DSLAM.
- **performance in terms of flexibility** based on the design and material choice
- **flame retardant and low or non corrosive** based on the appropriate choice of jacketing materials

The technology

1. Solid bare copper
2. pair of polyolefin insulated wires. The set of different pair twists guarantee low crosstalk. The polyolefin insulation guarantees wrapping and IDC.
3. plastic tape to separate the wires from the screen
4. bundle screen avoiding interferences between the different bundles and guaranteeing good EMC performances
5. drain wires for easy connection of the screening foils
6. overall screen guaranteeing good EMC performances
7. ripcord facilitating the removal of the sheath when connecting to the wiring block
8. sheath guaranteeing flame retardance, low smoke and low corrosivity


Conductor flexibility
Solid


Flame retardant
IEC 60332-1


Smoke density
Low


Gases corrosivity
Low

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xDSL twisted pairs or quads indoor cables

Characteristics

Construction characteristics	
Conductor material	Bare copper
Conductor flexibility	Solid
Insulation	Polyolefin
Protection	Plastic tape
Screen	Bundle screen and overall screen
Drain wire	Yes
Outer sheath	PVC
Dimensional characteristics	
Conductor diameter	0.4 mm
Usage characteristics	
Flame retardant	IEC 60332-1
Smoke density	Low
Gases corrosivity	Low

The Norms or reference

FEATURES	APPLICABLE NORMES
Attenuation	IEC 61156 - 1
Crosstalk	IEC 61156 - 1
Impedance	IEC 61156 - 1
Screening effectiveness	IEC 61156 - 1
Behavior to fire	IEC 60332 - 1

Product List

=Make to order, =Make to stock

Nexans ref.	Country ref.	Name	Field of application	Number of pairs	Characteristic impedance at 1MHz (Ohm)	Attenuation, max. 1 MHz (dB/km)
	01074600	ADSL Central Office indoor cable 128p: 4x (4x8/2)	ADSL	128	105	25
	391611	ADSL Central Office indoor cable 24p: 3x4q	ADSL	24	120	24
	391580	ADSL Central Office indoor cable 32p: 4x4q	ADSL	32	120	24

= Make to order, = Make to stock


Conductor flexibility
Solid


Flame retardant
IEC 60332-1


Smoke density
Low


Gases corrosivity
Low

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xDSL twisted pairs or quads indoor cables

	Nexans ref.	Country ref.	Name	Field of application	Number of pairs	Characteristic impedance at 1MHz (Ohm)	Attenuation, max. 1 MHz (dB/km)
		391644	ADSL2+ Central Office indoor cable 128p: 4x (4x8/2)	ADSL2+	128	105	25
		391645	ADSL2+ Central Office indoor cable 64p: 8x8/2	ADSL2+	64	105	25
		391655	ADSL2+ Central Office indoor cable 72p: 3x (3x8/2)	ADSL2+	72	105	25
	10048906	01858430	ADSL2+ Central Office indoor cable 96p: 4x24/2	ADSL2+	96	100	33

= Make to order, = Make to stock

Selling delivery information

Fire safety: all cables are available in **Halogen-Free, Fire-Retardant versions** (HFFR).
Contact our expert for more information.


Conductor flexibility
Solid


Flame retardant
IEC 60332-1


Smoke density
Low


Gases corrosivity
Low

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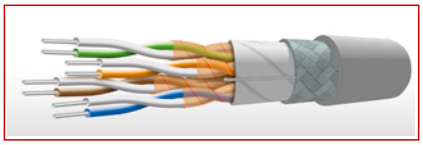
MILLIFLEX® 3 @ 120 Ohm - AWG26 28 30

Applications
Installation of transmission materials. Cables for termination devices up to 2 Mbits/s.

Description



Construction

1. **Conductor** : Solid tinned copper conductor, 0.4 mm diameter.
2. **Insulation** : Texfoam® insulation.
3. **Lay-up** : 2 conductors in pair.
4. **Individual screen** : Each pair is screened with an Aluminium/polyester tape, 0.4 mm diameter drain wire.
5. **Screen** : Tinned copper braid.
6. **Outer sheath** : Halogen free, colour grey.

Standards

International IEC 60332-1;
IEC 60754-1

National NF C 32-062/1;
NF C 32-070/C2

Halogen free	Operating temp. range	Flame retardant	Electro magnetic interference resistance
Yes	-20 .. 80 °C	C2, NF C 32-070	Yes

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MILLIFLEX® 3 @ 120 Ohm - AWG26 28 30

Characteristics

Construction characteristics	
Drain wire	Yes
Screen	Individual screen : Alu/Polyester tape
Outer sheath	HFFR (Halogene Free Flame Retartant)
Sheath colour	Grey
Halogen free	Yes
Electrical characteristics	
Characteristic impedance, range	105 .. 135 Ohm
Usage characteristics	
Operating temperature, range	-20 .. 80 °C
Flame retardant	C2, NF C 32-070
Electro magnetic interference resistance	Yes

Colour coding

Conductor	Colour	Conductor	Colour	Conductor	Colour	Conductor	Colour
1	white	9	white/grey	17	black	25	white/black
2	brown	10	grey/brown	18	purple	26	brown/black
3	green	11	white/pink	19	grey/pink	27	grey/green
4	yellow	12	pink/brown	20	red/blue	28	yellow/grey
5	grey	13	white/blue	21	white/green	29	pink/green
6	pink	14	brown/blue	22	bron/green	30	yellow/pink
7	blue	15	white/red	23	white/yellow	31	green/blue
8	red	16	brown/red	24	yellow/brown	32	yellow/blue

Product List

=Make to order, =Make to stock

Nexans ref.	Name	Max. outer diam. (mm)
2PF986	Milliflex® 3 @ 120 ohms - AWG 26 - 10 pairs	7.2
2PF987	Milliflex® 3 @ 120 ohms - AWG 26 - 12 pairs	7.7
2PF988	Milliflex® 3 @ 120 ohms - AWG 26 - 14 pairs	8.3
2PF989	Milliflex® 3 @ 120 ohms - AWG 26 - 16 pairs	8.7
2PF982	Milliflex® 3 @ 120 ohms - AWG 26 - 2 pairs	4.5
2PF983	Milliflex® 3 @ 120 ohms - AWG 26 - 4 pairs	5.4
2PF984	Milliflex® 3 @ 120 ohms - AWG 26 - 6 pairs	5.9
2PF985	Milliflex® 3 @ 120 ohms - AWG 26 - 8 pairs	6.5

= Make to order, = Make to stock

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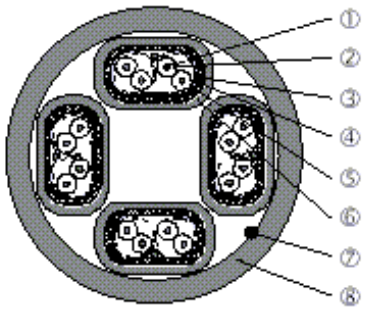
MILLIFLEX® 3@ 120 Ohm - AWG26 Twisted by pairs

Applications
Installation of transmission materials. Cables for termination devices up to 2 Mbits/s.

Description

Construction

1. **Conductor** : 0.4 mm tinned copper solid conductor.
2. **Insulation** : Foam skin polyolefin.
3. **Lay-up** : 4, 8 or 16 conductors lay up by 2 pairs.
4. **Individual screen** : Each bundle of 2 pairs is screened with an Alu/ polyester/alu tape, 0.4 mm diameter drain wire
5. **Screen** : Tinned copper braid.
6. **Sheath** : Halogen free.
7. **Ripcord**
8. **Outer sheath** : Halogen free, colour grey.



Colour coding

White/Blue + Blue/White + White/Orange + Orange/White
Pairs coding : Numered over the sheath.

Standards

International IEC 60332-1

National NF C 32-062/1;
NF C 32-070/C2

Flame retardant
C2, NF C 32-070

Electro magnetic interference resistance
Yes

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MILLIFLEX® 3@ 120 Ohm - AWG26 Twisted by pairs

Characteristics

Transmission characteristics	
Attenuation, max. 1 MHz	40 dB/km
Usage characteristics	
Flame retardant	C2, NF C 32-070
Electro magnetic interference resistance	Yes

Product List

Nexans ref.	Name	Number of pairs	Max. outer diam. (mm)	Approx. weight (kg/km)
2PB 797	MILLIFLEX® 3 @ 120 Ohm AWG26 - 4x2/2	8	10	131

= Make to order, = Make to stock

Contact
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L904 EMI serie (with overall braid)

120 Ohms / 2 Mbits

Applications :

Installation of transmission materials. Cables for termination devices up to 2 Mbits/s.

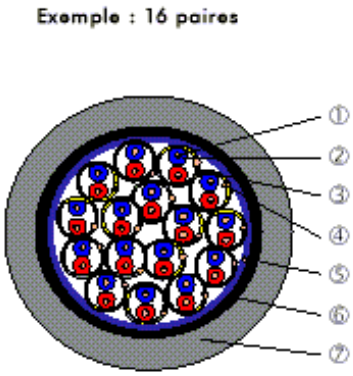
Description

Construction

1. **Conductor** : solid, 0.5 mm diameter.
2. **Insulation** : Foam skin polyolefin
3. **Core lay-up** : 2 conductors in pairs under polyester tape
4. **Individual screen** : each pair is screened with an Alu/polyester/alu tape, 0.5 mm diameter drain wire
5. **Overall screen** : alu/polyester/alu tape, 0.5 mm diameter drain wire
6. **Overall screen** : braid
7. **Outer sheath** : PVC grey colour according to NF C 32-062/1

Colour coding

- 1 blue + 1 red (each pair being numbered)



Filotex®

Standards

National NF C 32-062/1;
NF C 32-070/C2

Flame retardant
C2, NF C 32-070

Operating temp. range
-40 .. 85 °C

Electro magnetic interference resistance
Yes

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L904 EMI serie (with overall braid)

Characteristics

Construction characteristics	
Conductor material	Bare copper
Insulation	Foam-skin polyolefin
Outer sheath	PVC
Drain wire	Tinned copper 0.5 mm diameter
Protection	Tinned copper double braid
Screen	Collective screen : Alu/Polyester tape
Wire colour	Blue / Red
Inner sheath	Polyester tape(s)
Core identification	Colours
Dimensional characteristics	
Conductor diameter	0.5 mm
Maximum diameter over insulation	1.35 mm
Electrical characteristics	
Impedance at 200 MHz	120 Ohm
Dielectric strength core to screen DC, min.	1.5 kV
Dielectric strength core to core DC, min.	1.5 kV
Characteristic impedance	120 Ohm
Conductor electrical resistance	187.9 Ohm/km
Ohmical resistance of the insulation	5 MOhm.km
Transmission characteristics	
Attenuation, max. 1 MHz	20 dB/km
Usage characteristics	
Flame retardant	C2, NF C 32-070
Operating temperature, range	-40 .. 85 °C
Electro magnetic interference resistance	Yes

Product List

=Make to order, =Make to stock

	Nexans ref.	Country ref.	Name	Number of pairs	Length (m)	Packaging
	10040286	01081756	Série L904 EMI 10P in drum of 1000 m	10	1000	Drum
	10040324	01097753	Série L904 EMI 10P in drum of 500 m	10	500	Drum
	10041436	01103333	Série L904 EMI 16P in drum of 500 m	16	500	Drum
	10040344	01100093	Série L904 EMI 2P in coils of 250 m	2	250	Coil
	10040280	01081474	Série L904 EMI 4P in drum of 500 m	4	500	Drum
	10040343	01100092	Série L904 EmI 1P in coils of 250 m	1	250	Coil

= Make to order, = Make to stock

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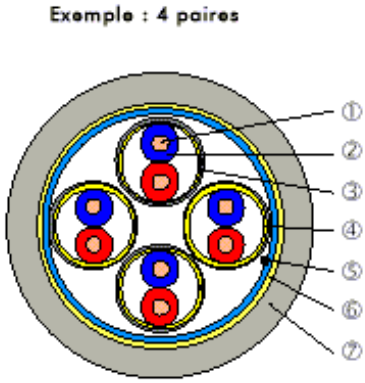
L904 serie

Applications :

Installation of transmission materials. Cables for termination devices up to 2 Mbits/s.

Description



Construction

1. **Conductor** : solid, 0.5 mm diameter.
2. **Insulation** : Foam skin polyolefin
3. **Core lay-up** : 2 conductors in pairs under polyester tape
4. **Individual screen** : each pair is screened with an Alu/polyester/alu tape, 0.5 mm diameter drain wire
5. **Overall screen** : Alu/polyester/alu tape, 0.5 mm diameter drain wire
6. **Polyester tape**
7. **Outer sheath** : PVC grey colour according to NF C 32-062/1

Colour coding

- 1 blue + 1 red (each pair being numbered)

Filotex®

Standards

National France Telecom

Conductor flexibility	Operating temp. range	Flame retardant	Electro magnetic interference resistance
Solid	-40 .. 85 °C	C2, NF C 32-070	Yes

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L904 serie

Characteristics

Construction characteristics	
Conductor material	Bare copper
Conductor flexibility	Solid
Insulation	Foam-skin polyolefin
Screen	Individual : Alu / PET / Alu tape ; Collective : Alu / PET / Alu tape
Drain wire	Tinned copper 0.5 mm diameter
Protection	Polyester tape separator
Outer sheath	PVC
Dimensional characteristics	
Conductor diameter	0.5 mm
Maximum diameter over insulation	1.35 mm
Electrical characteristics	
Characteristic impedance at 1MHz	120 Ohm
Precision of the characteristic impedance	10 +/- Ohm
Loop resistance, max. at 20°C	187.9 Ohm/km
Capacitance unbalance, max. 800 Hz	1000 pF/250m
Ohmical resistance of the insulation at 200 V , min.	5000 MOhm.km
Dielectric strength core to core DC, min.	1.5 kV
Dielectric strength core to screen DC, min.	1.5 kV
Transmission characteristics	
Attenuation, max. 1 MHz	20 dB/km
Usage characteristics	
Operating temperature, range	-40 .. 85 °C
Flame retardant	C2, NF C 32-070
Electro magnetic interference resistance	Yes

Product List

=Make to order, =Make to stock

	Nexans ref.	Country ref.	Name	Number of pairs	Packaging	Length (m)
	10099026	372892	L904 HF 1P coil 100 m	1	Coil	100
	10040322	01097693	L904 HF 1P coil 250 m	1	Coil	250
	10040273	01074957	L904 HF 2P coil 250 m	2	Coil	250
	10040248	01073909	L904 HF 4P drum 1000 m	4	Drum	1000
	10040358	374697	L904 HF 8P cut to length	8	Cut to length	
	10040249	01073940	L904 HF 10P drum 500 m	10	Drum	500
	10040295	01081843	L904 HF 16P drum 500 m	16	Drum	500

= Make to order, = Make to stock

Contact
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L905 serie

Applications Cables for termination devices up to 2 Mbits/s.

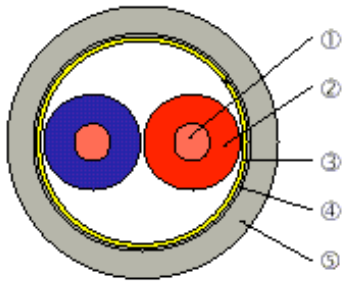
Description

Construction

1. **Conductor** Solid, 0.4 mm diameter.
2. **Insulation** Polyolefin.
3. **Core lay-up** 2 conductors in pairs under polyester tape.
4. **Screen**Alu/polyester/alu tape, 0.5 mm diameter drain wire.
5. **Outer sheath** 1. PVC grey colour according to NF C 32-062/1.

Colour coding

1 blue + 1 red



Filotex®

Standards

National NF C 32-062/1;
NF C 32-070/C2

Flame retardant
C2, NF C 32-070

Operating temp. range
-40 .. 85 °C

Electro magnetic interference resistance
Yes

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L905 serie

Characteristics

Construction characteristics	
Conductor material	Tinned copper
Insulation	Double layer PE
Outer sheath	PVC
Drain wire	Tinned copper
Screen	Aluminium-Polyester tape
Wire colour	Blue / Red
Sheath colour	Grey
Core identification	Colours
Dimensional characteristics	
Conductor diameter	0.4 mm
Number of cores	2
Number of pairs	1
Maximum outer diameter	3.5 mm
Electrical characteristics	
Dielectric strength core to screen DC, min.	1.5 kV
Dielectric strength core to core DC, min.	1.5 kV
Characteristic impedance	120 Ohm
Conductor electrical resistance	293.6 Ohm/km
Transmission characteristics	
Attenuation, max. 1 MHz	40 dB/km
Usage characteristics	
Flame retardant	C2, NF C 32-070
Operating temperature, range	-40 .. 85 °C
Electro magnetic interference resistance	Yes

Product List

	Nexans ref.	Country ref.	Name	Packaging
	10040326	01097950	Série L905 C jarretière 1P in coils of 250 m	Coil

= Make to order, = Make to stock

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HF quads & multi-quads cables

HF quads and multi-quads cables used for **High Speed transmission**, these cables are particularly recommended in Storage Area Network,
Serial ATA, Infiniband, 10 Gbit Ethernet, 10 Gbit fiber channel etc...

Contact
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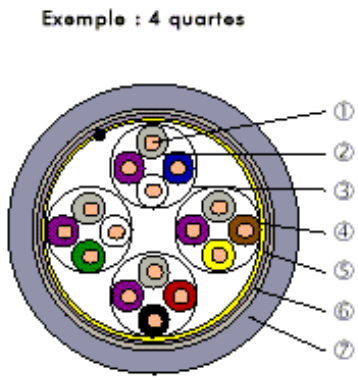
L907 serie

Applications
Installation of transmission materials. Cables for termination devices up to 2 Mbits/s.

Description

Construction

1. **Conductor**: Solid, 0.5 mm diameter.
2. **Insulation**: Polyethylen.
3. **Core lay-up**:
   For 2/2 to 10/2 models : 4 conductors in quads under polyester tape.
   For 16/2 to 32/2 models : 4 conductors in quads under polypropylen tape.
4. **Polypropylen tape**
5. **Screen**: Alu/polyester/alu tape, with drain wire
6. **Overall screen**: Braid.
7. **Outer sheath**: PVC colour grey according to NF C 32-062/1.



Filotex®

Standards

National NF C 32-062/1;
NF C 32-070

Flame retardant
C2, NF C 32-070

Electro magnetic interference resistance
Yes

Operating temp. range
-40 .. 85 °C

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L907 serie

Characteristics

Construction characteristics	
Conductor material	Bare copper
Outer sheath	PVC
Sheath colour	Grey
Dimensional characteristics	
Conductor diameter	0.5 mm
Electrical characteristics	
Max. transfer impedance at 30 MHz (Ohm/km)	35 Ohm/km
Transmission characteristics	
Attenuation, max. 1 MHz	2.4 dB/100m
Attenuation, max. 10 MHz	7.2 dB/100m
Attenuation, max. 30 MHz	11.5 dB/100m
Attenuation, max. 60 MHz	15.50 dB/100m
Near End Cross Talk @ 1 MHz	56 dB
Near End Cross Talk @ 10 MHz	41 dB
Far End Cross Talk @ 1 MHz	60 dB
Usage characteristics	
Flame retardant	C2, NF C 32-070
Electro magnetic interference resistance	Yes
Operating temperature, range	-40 .. 85 °C

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Interconnect coaxial cables

With a large “indoor” product portefolio (cables for switching, access, data transmission or mobile network), Nexans is a worldwide supplier. Strictly conform to global customer requirements, Nexans is also able to manufacture products which are conform to UL and CSA standards.

Miniaturization, electromagnetic protection, safety (for people and goods), resistant to temperature fluctuation and chemicals, weight and space saving, etc. … Nexans answers to all of this challenge and has a well-known reputation in innovation and performances.

Nexans Datacom, and its R&D division, propose customized solutions (cables and cords) for installation and interconnect markets. With a high technological level, Nexans Datacom has a real knowledge for new application such as : unbundling, UMTS, xDSL, etc. …

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Multi-coax cables

Multi-coaxial cables, miniaturized or not, used in intallation or interconnect markets.

In PVC, FEP or Halogen free, this cables are recommanded in telephone exchange for transmission and/or switching systems.

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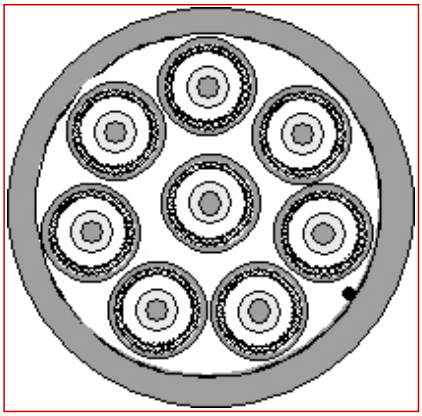
Milliflex coax 2.5 FEP/Foam PE Insulation

This coaxial cables is used for signal transmission in telephone exchanges and radiotelephone base stations.

Description



Construction

1 - Conductor

0.26 mm silvered copper solid conductor

FEP / Foam PE insulation

Aluminium / polyester / aluminium tape

Tinned copper braid

Halogen free jacket

2 - Screen

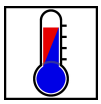
Wrapped tape

- **3 - Jacket**

  Halogen free

Standards

International IEC 60332-1



Operating temp. range
-20 .. 70 °C

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Milliflex coax 2.5 FEP/Foam PE Insulation

Characteristics

Usage characteristics	
Operating temperature, range	-20 .. 70 °C

Product List

Nexans ref.	Name
2PB015	MILLIFLEX 16 fold coax 2,5 mm
2PB555	MILLIFLEX 1coax 2,5 mm
2PB556	MILLIFLEX 8 fold coax 2,5 mm

= Make to order, = Make to stock

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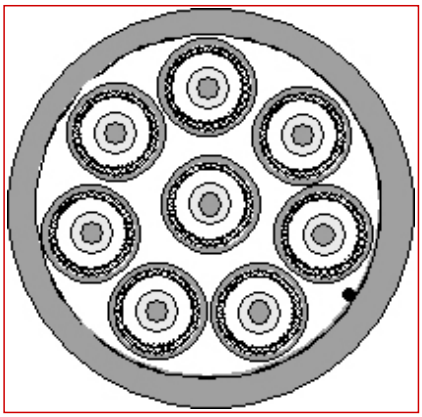
Milliflex coax 2.5 Foam skin PE insulation

This coaxial cables is used for signal transmission in telephone exchanges and radiotelephone base stations.

Description



Construction

1 - Conductor

0.26 mm tinned copper solid conductor

Foam-Foam /skin PE insulation

Aluminium / polyester / aluminium tape

Tinned copper braid

Halogen free jacket

2 - Screen

Polypropylen tape

Wrapped tape

Tape wrapped

3 - Jacket

Halogen free

Standards

International IEC 60332-1

Electro magnetic interference resistance
Yes

Operating temp. range
-20 .. 70 °C

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Milliflex coax 2.5 Foam skin PE insulation

Characteristics

Usage characteristics	
Electro magnetic interference resistance	Yes
Operating temperature, range	-20 .. 70 °C

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Telecom systems

Over long distances and for high-density transmission, the optical fibre (OF) has proved to be the ideal solution, both now and for the future.

The management of such a flow of information is hardly a straightforward matter. It is the role of optical transmission systems to solve this problem.

The 3 vital functions of optical transmission systems are:

- Conversion of the electrical signals into optical signals and vice-versa.
- Modification of the signals according to the conditions of application (electrical interfacing), with or without A/D or D/A conversion.
- Multiplexing time-based or frequency-based, to allow the juxtaposition - depending on the time or frequency range - of a number of signals on the same optical channel.

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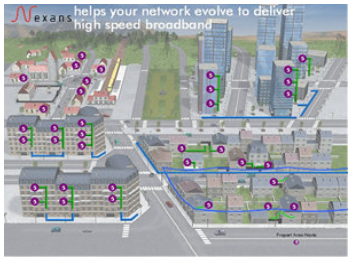
Customer Premises Equipment

Currently switched Fast Ethernet is the solution of choice providing each subscriber with a P2P connection at data rates of 100 Mbps and more. The Customer Premises Equipment (CPE) made by Nexans has specifically been designed for connecting residential customers and office customers. For residential customers, the Nexans CPE offers a special technology for the efficient multicast transmission of Video over IP, ports for connecting traditional telephones (POTS) as well as particularly high security and data integrity. For business customers Gigabit Ethernet as well as special security and authentication features are combined with a Power over Ethernet feature for feeding VoIp phones and Wireless Access Points.



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Residential Customer

Customer Premises Equipement (CPE) for residential and multidwelling areas:

WAN connection 100Base FX built-in O/E converter MT-RJ, SC or LC. Home-networking connection with 4 ports, each 100 Mbit/s for Triple Play and 2 analogue telephone lines. V-LAN and QoS for real-time services support.

Symmetrical 100Mbit/s Fast Ethernet connection.

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CPEs with 4 or 8 user ports for IP

The CPE40x and CPE80x Systems gives operators and service providers a reliable platform to support multiple broadband services with enhanced security and high quality standards.

Description

The CPE40x and CPE80x Systems gives operators and service providers a reliable platform to support multiple broadband services with enhanced security and high quality standards.

The CPE enables broadband operators and service providers WAN access with copper or fiber interface option with up to Gigabit speed and 8 LAN ports with 100 Mbps wire speed for triple play services.
The CPE device is intended for residential customers, small offices and medium size enterprises taking advantage of the multiple LAN ports and high throughput.

Multiple broadband services
The CPE supports triple play services: fast Internet access, IP telephony and IP TV due to various prioritization mechanisms. Also CableTV is supported with Nexans` CableTV media converter which converts TV signals from the fibre network into traditional RF signal over coax. The MCC (Media Converter for CableTV) is integrated in the CTU (Cable Termination Unit) of the CPE. An integrated serial port offers more possible means of communication for services like telemetry and security.

Quality Measurements
The CPE40x has an integrated LAN port status measurement tool which enables operators to monitor service quality. The LAN port status and the respective quality information is sent to the network management system for track keeping.

Simple operation and maintenance
The CPE40x is designed for remote management, configuration and software upgrades, which can be done in multiple ways such as via Nexans CPE Manager or other management systems. The CPE unit can also be integrated into a Network Management/Customer Care System via SNMP or API interface or by using .ini-files.

High quality services
to provide a number of IP-TV programs simultaneously to one location the CPE40x supports IGMP (Internet Group Management Protocol) snooping which routes multicast video stream only to LAN ports that have joined a multicast group and thus avoids unneccessary traffic and/or disturbances in the network. CPE enables carrier grade video and voice quality through priority mechanisms both on Ethernet and IP levels.

Suitable for broad range of networks
CPE40x/CPE80x can be implemented in Ethernet fiber and copper networks and is very well-suited for FTTH/FTTB/FTTO (fiber to the home/building/office) networks and their particular requirements.

Standards

International
Manufacturer specification

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CPE 40x/80x phone

For connecting analogue phones and IP-Phones these CPEs have an integrated gateway for plugging two analogue phones via RJ 11 connectors. All relevant protocols as SIP, H.323 and MGCP are available.The CPE40x and CPE80x Systems gives operators and service providers a reliable platform to support multiple broadband services with enhanced security and high quality standards.

Description

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Standards

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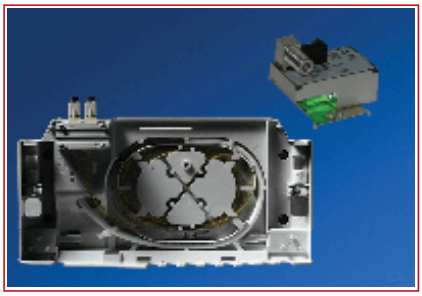
Accessories

Nexans Cable Termination Unit, CTU, provides broadband network builders a solution for fast and easy fiber termination. Until now connecting homes directly to a fiber network has been a costly and labour intensive process. Now Nexans can offer a smarter way to deploy fiber to the homes and offices.

The CTU can optionally be equipped with a CaTV module, that converts CaTV signal from fibre to standard RF signal to be distributed over COAX cabling. This enables distribution of TV service over fiber network and allows reuse of existing COAX cabling in homes.

Description



Standards

International
Manufacturer specification

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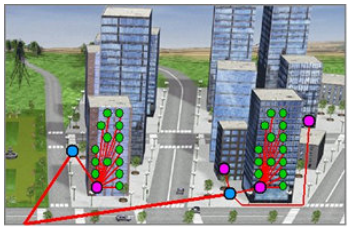
Business Customer

FiberSwitch for business center area:

Fiber-optic uplink according to IEEE802.3u 100BASE-FX and 1000Base LX with SC, ST, MT-RJ or VF45 dual fiber or single fiber connection. 4 RJ45 User ports. Supports VoIP telephone, wireless access points and terminal equipment connected via RJ45. Power over Ethernet option.

Optimum for FTT Office connection.



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Workplace Switch Systems

Description

The Nexans FiberSwitch 100 BM+ systems can be installed in the skirting duct, in the media column or in subfloor boxes. They are equipped with a protected IEEE 802.3u fiber-optic Fast Ethernet interface on the rear panel and with 4 x 10/100 Mbps TP user interfaces on the front panel which each can be configured in line with actual demand or operate in the autonegotiation mode.

Standards

International
Manufacturer specification

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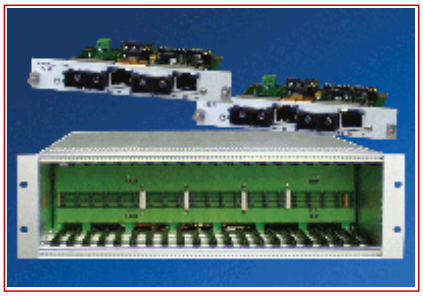
Central Modular Media Converter

Description

In typical office environments today there are often mixed network installations consisting of 10 Mbps Ethernet, 100 Mbps Fast Ethernet or 1000 Mbps Gigabit Ethernet systems. The system rack is perfect for those installations for inserting a maximum of 21 different converter shelves (e.g. 2x 100 Mbps and 1x 10 Mbps). Dual channel shelves are available for Ethernet and also for Fast Ethernet.



Standards

International
Manufacturer specification

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Central fixed Media Converter

Description

The Nexans media converters convert, in accordance with the IEEE802.3u standard, 12 or 24 twistedpair connections into 12 or 24 separate optical connections. With the full duplex transmission mode of the FiberCon systems it is possible to send and receive at the same time. This doubles the data throughput to 200 Mbps. Management is via an ANM management system (Active Network Management) which can monitor up to 100 FiberCon 19" systems simultaneously.

Standards

International
Manufacturer specification

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Multiplexers

Industrial processes, including power generation, management of energy distribution, or the control of transport installations, are characterised by relatively slow operations which, however, are distributed throughout networks which are often widely separated.

These 'multimedia' links are used in larger applications where it is necessary to combine functions and numerous and very different signals on the same pair of fibres.

Nexans

Global expert in cables and cabling systems

Distributed by :

Customer service - - Mexico
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