

FLEXIBLE CABLES FOR **CABLE CHAINS**



TotalChain

Total system for ...

Reducing Costs

Assembly Costs - Delivered to you fully assembled
Warehouse Costs - Fewer components to stock and maintain
Purchasing Costs - Competitively priced

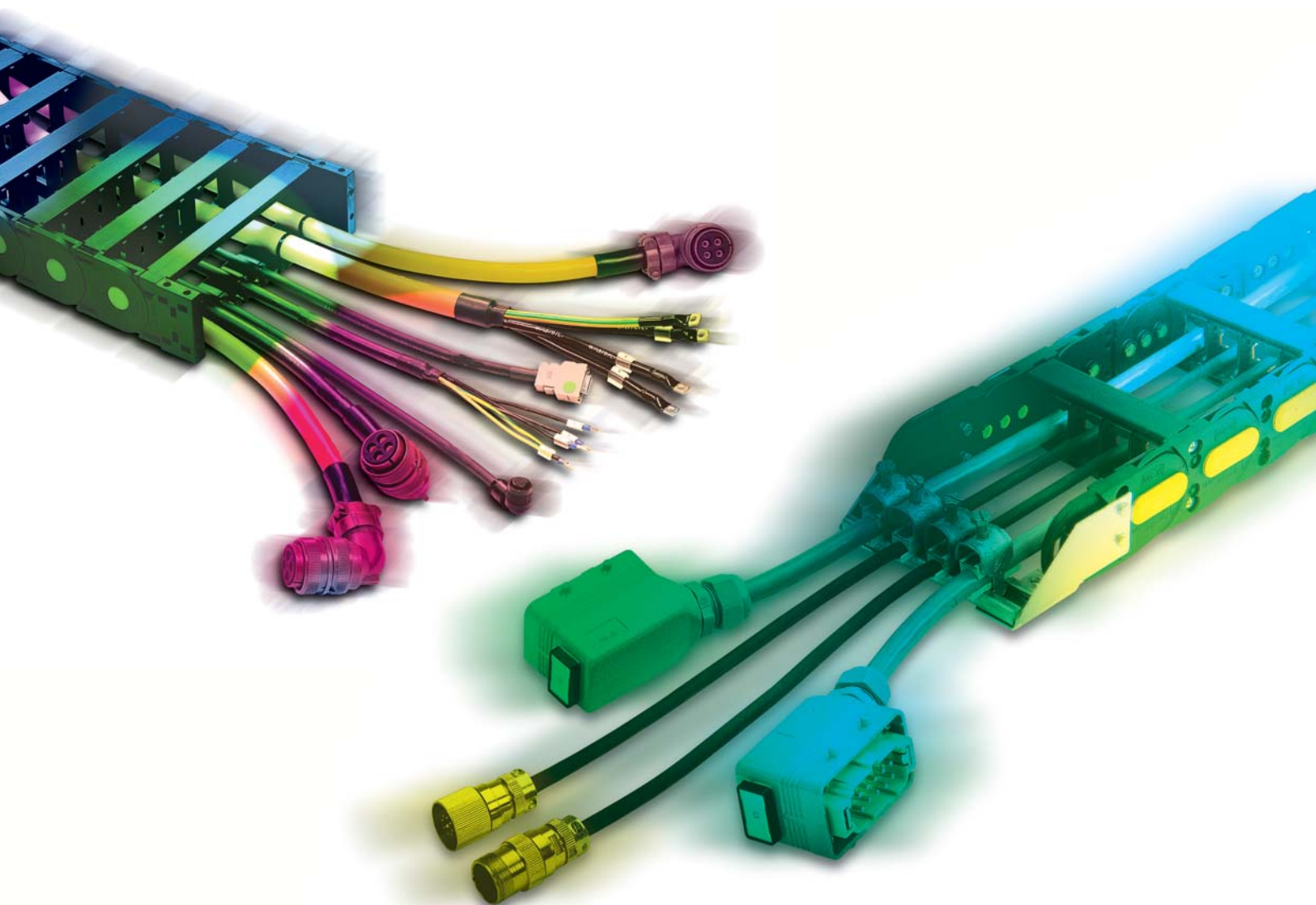
Saving Time

Assembly Time - Delivered ready for installation
Purchasing Time - All components from one supplier
Delivery Time - Quick shipment from receipt of your P.O.

Customer Service

Reliability - Quality components from one supplier
Quality - Complete assembly guaranteed
Customer service - Expert assistance from one supplier

Total Chain is a fully harnessed cable chain, with a full package guarantee, made to order and delivered ready for installation.



Summary

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Brevetti Stendalto



In the 60's things changed, - also the way of manufacturing, the magic word became "Automation" as the equipment and machines started to operate based on new concepts, which required a new generation of dynamic cable protection. Mr. Giovanni Mauri, (president and founder of Brevetti Stendalto) captured this new demand, he designed and started to propose Nylon cables chains in alternative to old style steel cable chains, which were too heavy and expensive for most of the new modern automation equipment and machines.

From those days, Brevetti Stendalto's cables chains are used for dynamics cables protection on all kinds of equipment around the world.

The continuing evolution of Brevetti Stendalto has brought: a wide range of cables chains for all kinds applications, international patent for Robot circular chains in 1988, ISO 9001 qualification, branches in France 1998 and Germany 1999, new modern facilities in Monza, Italy and a consolidation of our international sales net in all industrialized countries.

Today's Brevetti Stendalto is projecting its future in two main directions; large cable chain projects and problem solving supply. For large cable chain projects, Brevetti Stendalto is approaching a leading position in this sectors with increasing demand, as offshore platforms and harbour crane equipment.

To give an idea of what technological wise is reached for such applications, where the dynamic power supply heavily determine the entire project, Brevetti Stendalto's test rig, tests the cable chains at a constant speed of 8 m/s for 130 m travel.

With regards to "Problem solving supply" , Brevetti Stendalto is offering a new supply concept; cable chains completely finished with cables and connectors. For the customer it means reduced assembling and installation time, reduction of possible problems, which again express the philosophy of Brevetti Stendalto: Free to project.



Patent for the circular nylon cable chain.

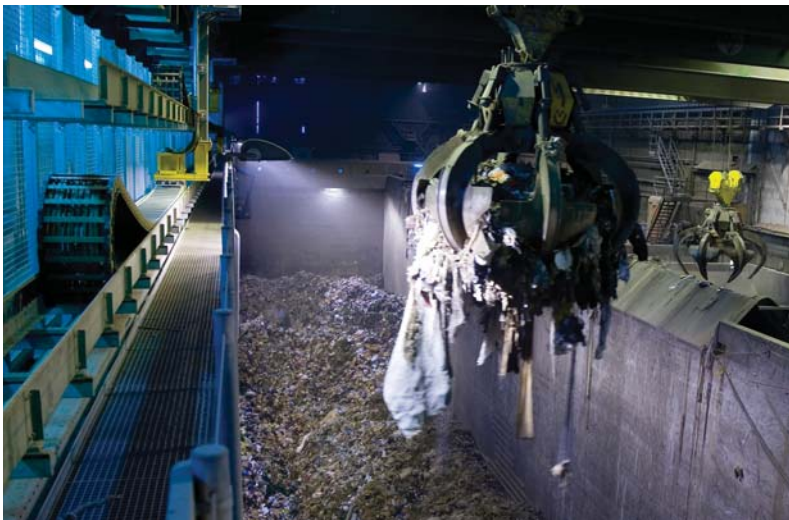


Chain/Cable testing rig for long travel:
Tests at 8 m/s for 130 m travels.

Applications

From our initial experience from the machine tool centres, more than 30 years ago, Brevetti has acquired the technical know-how to diversify its product range. Nowadays the cable chains are offered together with our range of Highly flexible as a guaranteed package solution for all kinds of heavy duty applications for dynamic power supply as: Industrial robots, high-speed automation, automatic storage systems, container cranes.

Our package solution of Brevetti cable chains & flexible chains are also being implemented in many sectors of engineering: steel works, offshore, cranes, harbour cranes, compost plants, waste-to-energy plants, mining, nuclear plants, etc



Nylon sliding chains type M80 installed on waste incineration plant "Vestforbrænding" in Denmark



Machine tools equipped with nylon cable chains



Vertical nylon chain on machine tool

Synoptic table

	Cable	Jacket	Insulation	Shield	Number of cores	Cross section (mm ²)	Bending radius self-supporting (factor x Ø)	Bending radius long travel distance (factor x Ø)
	MULTICONDUCTOR CABLE							
	BC400	PVC	PVC		3 - 25	0,5 - 6	10	
	BC401	PVC	PVC	✓	3 - 25	0,5 - 4	10	
	BC406	PVC	TPE		2 - 37	0,25 - 0,34	7,5	10
	BC407	PVC	TPE	✓	2 - 37	0,25 - 0,34	7,5	10
	BC408	PVC	PVC		3 - 25	0,5 - 6	7,5	10
	BC409	PVC	PVC	✓	3 - 25	0,5 - 6	7,5	10
	BC410	PVC	PVC		3 - 25	0,34 - 16	7,5	10
	BC411	PVC	PVC	✓	2 - 25	0,34 - 16	7,5	10
	BC418	PUR	TPE-E		3 - 25	0,34 - 4	5	7,5
	BC419	PUR	TPE-E	✓	3 - 25	0,25 - 2,5	5	7,5
	BC412	PVC	PVC	✓	4 - 12	0,25 - 0,34	7,5	10
	BC413	PUR	TPE	✓	4 - 20	0,25 - 0,5	5	7,5
	BC417	PUR	TPO	✓	8 - 24	0,5 - 2,5	10	10
	SERVO MOTOR CABLES							
	BC420N	PUR	TPO		4 - 5	2,5 - 35	10	10
	BC421N	PUR	TPO	✓	4	2,5 - 25	10	10
	BC423LC	PVC	Teo flexene®	✓	4	1,5 - 50	10	15
	BC423ALC	PVC	Teo flexene®	✓	6	1,5 - 50	10	15
	BC421LC	PUR	Teo flexene®	✓	4	1,5 - 50	7,5	10
	BC430LC	PUR	Teo flexene®	✓	4	0,75 - 50	7,5	10
	BC435LC	PUR	Teo flexene®	✓	4	1,5 - 50	7,5	10
	BC427	PVC	PVC		1	6 - 95	10	10
	BC427C	PVC	PVC	✓	1	6 - 95	10	10
	BC425	PUR	TPE-E		1	10 - 240	7,5	7,5
	BC426	PUR	TPE-E	✓	1	10 - 240	7,5	7,5
	BC428	PUR	TPO		3	10 - 95	10	10
	BC429	PUR	TPO	✓	3	10 - 50	10	10
	HARNESSED SERVO MOTOR CABLES							
	BTC423LC	PVC	Teo flexene®		4	1,5 - 16	10	15
	BTC423ALC	PVC	Teo flexene®		6	1,5 - 50	10	15
	BTC440	PVC	PP		12	0,14 - 0,50	10	10
	BTC421LC	PUR	Teo flexene®		4	1,5 - 16	7,5	10
	BTC435LC	PUR	Teo flexene®		6	1,5 - 50	7,5	10
	BTC440	PUR	PP		12	0,14 - 0,50	10	10

Max. speed (m/min)	Max. acceleration (m/s ²)	Temperature C°	Nominal voltage (V)	Approvals and standards	Halogen-free	Oil-resistant	UV resistant	Flame retardant	Page
80	2	-10 +80	600	CE   		✓		✓	10
80	2	-10 +80	600	CE   		✓		✓	11
220	10	-5 +80	300	CE   		✓		✓	12
220	10	-5 +80	300	CE   		✓		✓	13
180	10	-5 +90	600-1000	CE   		✓		✓	14
180	10	-5 +90	600-1000	CE   		✓		✓	15
180	10	-10 +80	300-600	CE   		✓		✓	16
180	10	-10 +80	300-600	CE   		✓		✓	17
300	25	-30 +80	300-600	CE    	✓	✓	✓	✓	18
300	25	-30 +80	300-600	CE    	✓	✓	✓	✓	19
180	10	-10 +80	300	CE   		✓		✓	20
300	25	-30 +80	300	CE    	✓	✓	✓	✓	21
240	20	-30 +80	1000	CE    	✓	✓	✓	✓	22
240	20	-30 +80	600/1000	CE    	✓	✓	✓	✓	24
240	20	-30 +80	600/1000	CE    	✓	✓	✓	✓	25
180	15	-15 +80	600/1000	CE    		✓		✓	26
180	15	-15 +80	600/1000	CE    		✓		✓	27
300	50	-30 +80	600/1000	CE     	✓	✓	✓	✓	28
300	50	-30 +80	600/1000	CE     	✓	✓	✓	✓	28
300	50	-30 +80	600/1000	CE     	✓	✓	✓	✓	29
180	10	-10 +80	1000	CE  		✓		✓	30
180	10	-10 +80	1000	CE  		✓		✓	31
300	25	-30 +80	600-1000	CE   	✓	✓	✓	✓	32
300	25	-30 +80	600-1000	CE   	✓	✓	✓	✓	33
240	10	-30 +80	600/1000	CE    	✓	✓	✓	✓	34
240	10	-30 +80	600/1000	CE    	✓	✓	✓	✓	34
180	15	-15 +80	600/1000	CE    		✓		✓	35
180	15	-15 +80	600/1000	CE    		✓		✓	36
180	6	-15 +80		CE    		✓		✓	37
300	50	-30 +80	600/1000	CE     	✓	✓	✓	✓	38
300	50	-30 +80	600/1000	CE     	✓	✓	✓	✓	39
240	20	-30 +80		CE    		✓		✓	40

	Cable	Jacket	Insulation	Shield	Number of cores	Cross section (mm ²)	Bending radius self-supporting (factor x Ø)	Bending radius long travel distance (factor x Ø)
	ENCODER, MEASURING SYSTEM RESOLVER CABLE							
	BC4400001-BC4400020	PUR	TPO	✓	10	0,25 - 1	10	10
	BC4400018	PVC	PP	✓	12	0,38 - 0,5	12	12
	BC4400002	PUR	PP	✓	12	0,38 - 0,5	11	11
	BC4400004-BC4400017	PUR	TPE-E	✓	8	0,14 - 1	10	10
	BC4400005	PUR	TPE-E	✓	12	0,14 - 0,5	10	10
	BC4400007-BC4400008	PVC	PVC	✓	8	0,25 - 0,35	15	15
	BC4400009-BC4400010	PVC	PVC	✓	8	0,25 - 0,35	12	12
	BC4400006-16-19	PVC/PUR	PP	✓	12 - 16	0,14 - 0,5	10	10
	BC4400011-12-13-14	PUR	PP	✓	6 - 8	0,25 - 0,35	10	10
	BC4400015	PUR	TPO	✓	9	0,5	10	10
	BC4400023	PUR	PP	✓	12	0,14 - 0,5	10	10
	BC4400024	PUR	PP	✓	6	0,15 - 0,38	10	10
	BC4400025	PVC	PP	✓	6	0,15 - 0,38	10	10
	BC4400022	PUR	PP	✓	16	0,18	12	12
	BUS CABLE							
	BC4500001-BC4500002	PVC	Foam	✓	2	24 AWG	-	-
	BC4500003-BC4500017	PUR	Foam	✓	2	24 AWG	10	10
	BC4500004	PVC	TPO	✓	6	0,22	-	-
	BC4500005	PUR	TPO	✓	6	0,22	10	10
	BC4500006-BC4500008	PVC	Foam / PVC	✓	4	22-24 AWG	-	-
	BC4500007-BC4500014	PUR	Foam / PE	✓	4	22-24 AWG	10	10
	BC4500021-BC4500022	PUR	Foam	✓	4 - 8	24 AWG	15	15
	BC4500010-BC4500013	PVC/PUR	Foam / PP	✓	5	24 AWG - 0,75	10	10
	BC4500011-12-15	PUR	TPO / PP	✓	2 - 4	0,25 - 0,35	10	10
	BC500				6 - 24	-	10	10

Max. speed (m/min)	Max. acceleration (m/s ²)	Temperature C°	Nominal voltage (V)	Approvals and standards	Halogen-free	Oil-resistant	UV resistant	Flame retardant	Page
240	20	-30 +80	250	   	✓	✓	✓	✓	42
180	6	-10 +80	250	   		✓		✓	43
240	20	-30 +80	250	   	✓	✓	✓	✓	44
240	20	-30 +80	250	   	✓	✓	✓	✓	45
240	20	-30 +80	250	   	✓	✓	✓	✓	46
70	3	-10 +80	250	  		✓		✓	47
160	6	-10 +80	250	  		✓		✓	48
180 / 240	6 / 20	-10/-30 +80	250	   	✓	✓		✓	49
240	20	-30 +80	250	   	✓	✓	✓	✓	50
240	20	-30 +80	250	   	✓	✓	✓	✓	51
240	20	-30 +80	30	   	✓	✓	✓	✓	52
240	20	-30 +80	30	   	✓	✓	✓	✓	53
180	6	-10 +80	30	  		✓		✓	53
240	20	-30 +80	250	   	✓	✓	✓	✓	54
		-5 +80		  		✓		✓	56
240	20	-30 +80		   	✓	✓	✓	✓	57
		-5 +80		  		✓		✓	58
240	20	-30 +80		   	✓	✓	✓	✓	59
		-5 +80		  		✓		✓	60
240	20	-30 +80		   	✓	✓	✓	✓	61
240	20	-30 +80		   	✓	✓	✓	✓	62
60 / 240	2 / 20	-30 +80		   	✓	✓	✓	✓	63
180	7	-30 +80		   	✓	✓	✓	✓	64
		-20 +60			✓	✓		✓	65

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Brevetti Stendalto		Italy	5851-01	WIRES-Appliance	217790
Brevetti Stendalto		Italy	5721-01	CABLE-Control	241822
Brevetti Stendalto		Italy	5731-01	CABLE-Communications	241822
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Multiconductor Cables

BC400

Signal and Control cables
with PVC jacket page 10

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Multipair shielded signal cable
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Multipair shielded signal cable
with PUR jacket page 21

BC417

Multipair shielded signal cable
with PUR jacket page 22

Signal and Control cables with PVC jacket

BC400



Technical data: BC400 - 401

Nominal voltage:

VDE DIN 0245 part.102 Uo/U 300/500V
UL 758 AWM - 600V
CSA AWM C.22.2 n.210-600V

Testing voltage: 2000 V

Temperature range:

from -10°C to +80°C

Speed:

80 m/min

Acceleration:

2 m/s²

Burning characteristics:

EN 50265-2-1,
VDE 0472-804 test B,
IEC 60332.3.24

Oil resistance:

UL 1581

Homologation UL/CSA:

UL-AWM 80°C - 600V
CSA 80°C - 600V

Construction

Conductor:

Flexible complying with:
VDE 0295, IEC 60228

Insulation:

Composed thermoplastic insulating
complying with UL / CSA

Core ident. :

black num.
+G/Y complying with VDE 0293,
CEI UNEL 00725-74

Core assembling:

special

Jacket material:

thermoplastic compound,
low adhesiveness
complying with UL / CSA
colour grey RAL 7001

Shielding

only for BC401

Tinned copper braid: > 80%

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4000305	3G0,50	6,20	62	15	60
4000405	4G0,50	6,90	69	19	70
4000505	5G0,50	7,50	75	24	85
4000705	7G0,50	8,00	80	34	115
4001205	12G0,50	10,30	103	59	167
4001805	18G0,50	12,30	123	86	258
4002505	25G0,50	15,90	159	120	337
4000310	3G1,0	7,30	73	29	80
4000410	4G1,0	7,90	79	38	100
4000510	5G1,0	8,60	86	48	125
4000710	7G1,0	9,60	96	67	170
4001210	12G1,0	12,20	122	115	260
4001810	18G1,0	14,70	147	173	380
4002510	25G1,0	17,10	171	240	550
4000315	3G1,5	7,80	78	43	100
4000415	4G1,5	8,50	85	58	125
4000515	5G1,5	9,30	93	72	155
4000715	7G1,5	10,20	102	101	210
4001215	12G1,5	13,20	132	173	330
4001815	18G1,5	15,90	159	260	485
4002515	25G1,5	18,80	188	360	710
4000425	4G2,5	10,00	100	96	175
4000725	7G2,5	12,00	120	168	310
4001225	12G2,5	15,70	157	288	495
4000440	4G4	12,50	125	158	271
4000760	7G6	17,70	177	404	700



Signal and Control cables Shielded with PVC jacket

BC401



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4010305	3G0,50	7,90	79	39	87
4010405	4G0,50	8,50	85	46	87
4010505	5G0,50	9,20	92	54	130
4010705	7G0,50	10,00	100	70	125
4011205	12G0,50	12,20	122	100	211
4011805	18G0,50	14,30	143	153	270
4012505	25G0,50	18,20	182	202	338
4010310	3G1,0	9,00	90	57	101
4010410	4G1,0	9,70	97	70	160
4010510	5G1,0	10,40	104	81	195
4010710	7G1,0	11,30	113	110	235
4011210	12G1,0	14,00	140	182	410
4011810	18G1,0	16,50	165	254	530
4012510	25G1,0	19,30	193	365	825
4010315	3G1,5	9,70	97	75	185
4010415	4G1,5	10,30	103	91	215
4010515	5G1,5	11,10	111	112	260
4010715	7G1,5	11,90	119	145	310
4011215	12G1,5	15,00	150	247	510
4011815	18G1,5	17,70	177	348	730
4012515	25G1,5	20,40	204	498	1000
4010425	4G2,5	11,80	118	145	250
4010440	4G4	15,00	150	224	360

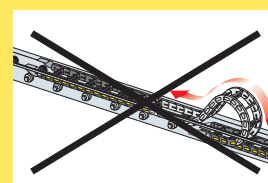
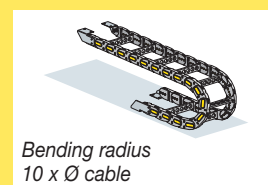


BC400 BC401

Speed: 80 m/min
Acceleration: 2 m/s²

Nominal voltage: 300/500 V
UL/CSA AWM 600V

Complying with UL and CSA for the
European and USA market



For further information please
consult Brevetti Stendalto's
Technical Office

Signal cable with PVC jacket

BC406



Technical data: BC406-BC407

Nominal voltage:	300 V
Testing voltage:	1500 V
Temperature range:	from -5°C to +80°C
Speed:	220 m/min
Acceleration:	10 m/s ²
Burning characteristics:	IEC 60332.3.1 VDE 0472-804 test B
Flame resistance:	CEI 20/22II, IEC 60332.3.24 cat.C
Oil resistance:	VDE 0472 part 803/B UL 1581
Homologation UL/CSA:	UL-Style 2464 80°C 300V CSA C22.2 N210.2-M90 80°C 300V FT1

Construction

Conductor:	High-flexible class 6 complying with: VDE 0295, IEC 60228
Insulation:	TPE
Core ident.:	colour complying with DIN 47100
Core assembling:	special multi-ply with soft strip on outer layer
Jacket material:	special compound type PVC, colour grey RAL 7001
Shielding:	Tinned copper braid: > 80%

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4060202	2x0,25	3,9	29	5	20
4060302	3x0,25	4,1	31	7,5	21
4060402	4x0,25	4,4	33	10	25
4060502	5x0,25	4,7	35	12,5	30
4060702	7x0,25	5,2	39	15	45
4061202	12x0,25	6,4	48	29	65
4061802	18x0,25	7,3	55	45,1	83
4062502	25x0,25	8,6	65	62,7	114
4063702	37x0,25	10,2	77	89	210
4060203	2x0,34	4,1	31	6,6	23
4060303	3x0,34	4,3	32	9,9	25
4060403	4x0,34	4,6	35	13,2	30
4060503	5x0,34	5,0	38	16,5	35
4060703	7x0,34	5,4	41	23	45
4061203	12x0,34	6,9	52	40	73
4061803	18x0,34	7,8	59	59,4	100
4062503	25x0,34	9,6	72	82,5	148
4063703	37x0,34	11,5	86	121	295



* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

Signal cable shielded with PVC jacket

BC407



Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n g mm²	mm	mm	kg/km	kg/km
4070202	2x0,25	4,3	32	11,7	28
4070302	3x0,25	4,5	34	14,7	30
4070402	4x0,25	4,8	36	18	35
4070502	5x0,25	5,1	38	21,4	40
4070702	7x0,25	5,6	42	27	51
4071202	12x0,25	6,8	51	45	74
4071802	18x0,25	7,7	58	61	100
4072502	25x0,25	9,5	71	86,4	148
4073702	37x0,25	10,8	81	117	230
4070203	2x0,34	4,5	34	13,8	31
4070303	3x0,34	4,7	35	17,6	34
4070403	4x0,34	5,0	38	21,7	39
4070503	5x0,34	5,4	41	26	46
4070703	7x0,34	6,0	45	38	58
4071203	12x0,34	7,4	56	59	88
4071803	18x0,34	8,3	62	88,8	124
4072503	25x0,34	10,1	76	108,7	176
4073703	37x0,34	12,4	93	162	275



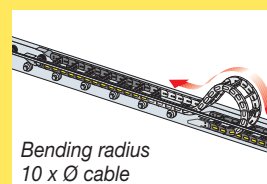
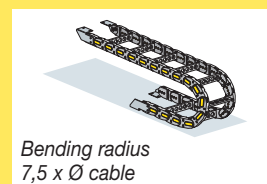
BC406 BC407

Speed: 220 m/min
Acceleration: 10 m/s²

Nominal voltage: 300 V

Complying with UL and CSA for the
European and USA market

Very good oil resistant PVC
jacket



* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

For further information please
consult Brevetti Stendalto's
Technical Office

Signal and Power cables with PVC jacket

BC408



Technical data: BC408-BC409

Nominal voltage:

sect.0,5 to 1,5 mm ²	600 V
sect.2,5 mm ²	1000 V

Testing voltage:

sect.0,5 to 1,5 mm ²	2000 V
sect.2,5 mm ²	4000 V

Temperature range:

from -5°C to +90°C

Speed:

180 m/min

Acceleration:

10 m/s²

Burning characteristics:

IEC 60332.1.1
VDE 0472 part 803/B

Flame resistance:

CEI 20-22/II,
IEC 60332.3.24 cat.C

Oil resistance:

VDE 0472 parte 803/B,
UL 1581

Homologation UL/CSA:

sect.0,5 to 1,5 mm²
UL 2587 90°C - 600V
CSA C22.2 AWM 90°C 600V FT1
sect. ≥ 2,5 mm²
UL 20886 90°C - 1000V
CSA C22.2 AWM 90°C 1000V FT1

Construction

Conductor:

High-flexible class 6 complying with:
VDE 0295, IEC 60228

Insulation:

PVC complying with standard UL-CSA

Core ident.:

black num. +G/Y

Core assembling:

special multi-ply with soft strip
on outer layer

Jacket material:

special compound type PVC,
colour grey RAL 7001

Shielding:

Tinned copper braid: > 80%

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4080305	3G0,5	6,3	46	14,5	50
4080305X	3x0,5	6,3	46	14,5	50
4080405	4G0,5	6,6	50	19,3	58
4080505	5G0,5	7,3	55	24,1	69
4080705	7G0,5	8,8	63	33,7	97
4081205	12G0,5	10,7	80	57,8	146
4081805	18G0,5	12,5	94	86,7	212
4082505	25G0,5	15	113	120,5	311
4080307	3G0,75	6,5	49	21,6	58,2
4080407	4G0,75	7,1	53	28,9	71,8
4080507	5G0,75	7,7	58	36,1	85
4080707	7G0,75	8,9	67	50,5	120,1
4081207	12G0,75	11,2	84	86,6	181,7
4081807	18G0,75	13,3	100	129,9	266,1
4082507	25G0,75	15,9	119	180,4	385
4080210	2G1,0	6,7	49	19,3	68
4080310	3G1,0	7,5	53	28,9	71
4080410	4G1,0	7,9	57	38,5	87
4080510	5G1,0	8,2	62	48,1	103
4080710	7G1,0	9,9	74	67,4	154
4081210	12G1,0	12,6	92	115,5	227
4081810	18G1,0	15	109	173,3	333
4082510	25G1,0	17,1	129	240,6	482
4080315	3G1,5	7,6	56	43,3	91
4080415	4G1,5	8,7	62	57,8	112
4080515	5G1,5	9,4	70	72,2	141
4080715	7G1,5	10,8	81	101,1	199
4081215	12G1,5	13,8	100	173,3	299
4081815	18G1,5	16,2	118	260	441
4082515	25G1,5	19,2	143	361,1	655
4080325	3G2,5	10,9	82	68,6	159
4080425	4G2,5	11,6	91	91,4	203
4080725	7G2,5	15,5	116	160	357
4081225	12G2,5	19,3	145	274,3	537
4080440	4G4	13,7	103	155,5	358
4080460	4G6	15,4	116	233,3	477



* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

Signal and Power cables shielded with PVC jacket

BC409



Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4090305	3G0,5	7	53	31,3	51
4090405	4G0,5	7,4	56	37,9	62
4090505	5G0,5	8,1	61	44,7	73
4090705	7G0,5	9,3	72	58,1	105
4091205	12G0,5	11,5	86	92,6	153
4091805	18G0,5	13,4	101	128,1	218
4092505	25G0,5	15,8	119	170,8	311
4090307	3G0,75	7,6	57	40,6	62
4090407	4G0,75	8,1	61	50	76
4090507	5G0,75	8,2	65	59,6	90
4090707	7G0,75	10,2	77	78,8	130
4091207	12G0,75	12,5	94	127,6	195
4091807	18G0,75	14,6	110	179,9	280
4092507	25G0,75	17,2	129	259	415
4090310	3G1,0	8,1	61	49,8	84
4090410	4G1,0	8,7	65	61,5	102
4090510	5G1,0	9,8	74	73,5	127
4090710	7G1,0	11	83	97,3	174
4091210	12G1,0	13,5	101	157,1	258
4091810	18G1,0	15,7	118	222,6	369
4092510	25G1,0	19,6	147	322,1	551
4090315	3G1,5	8,4	65	66,1	104
4090415	4G1,5	9,2	73	82,9	134
4090515	5G1,5	10,4	78	99,9	159
4090715	7G1,5	12,2	92	137,6	229
4091215	12G1,5	14,7	110	219	336
4091815	18G1,5	17,1	128	330,9	495
4092515	25G1,5	21,3	160	450,4	736
4090325	3G2,5	11,8	89	103,3	187
4090425	4G2,5	13	98	129,9	234
4090725	7G2,5	16,6	125	226,6	413
4091225	12G2,5	20,6	155	358,5	616
4090440	4G4	14,6	110	200,6	324
4090460	4G6	16,9	127	298,8	459



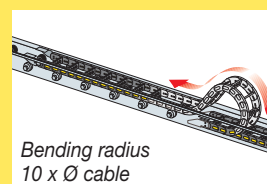
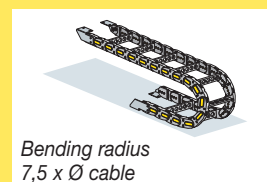
BC408 BC409

Speed: 180 m/min
Acceleration: 10 m/s²

Nominal voltage: 600 V

Complying with UL and CSA for the
European and USA market

Very good oil resistant PVC
jacket



For further information please
consult Brevetti Stendalto's
Technical Office

* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

Signal, Control and Power cables with PVC jacket

BC410



Technical data: BC410 - 411

Nominal voltage:

sect.0,34 mm ²	300 V	UL/CSA
sect.0,5-50 mm ²	600 V	UL/CSA

Testing voltage:

sect.0,34 mm ²	1500 V
sect.0,5-2,5 mm ²	2000 V
sect.4-50 mm ²	3000 V

Temperature range:

from -10°C to +80°C

Speed:

180 m/min

Acceleration:

10 m/s²

Burning characteristics:

CEI EN 50265-2-1
DIN EN 50265-2-1,
NFC 32070 C2,
IEC 60332.1.1

Flame resistance:

CEI 20-22/II,
DIN EN 50266-2-5,
NFC 32070 cat. C1 test 2,
IEC 60332.3.24 cat.C

Oil resistance:

HD 385 - EN 60811-2-1,
VDE 0472 part 803/B,
UL 1581, CNOMO E.03.40.150,
NFT46-013

Homologation UL/CSA:

sect.0,34 mm² UL-AWM 80°C - 300V
CSA-AWM 75°C - 300V FT1

sect.0,5-50 mm² UL-AWM 80°C- 600V
CSA-AWM 80°C - 600V FT1

Construction

Conductor:

High-flexible class 6 complying with:
CEI 20-29, VDE 0295,
NFC 32012, IEC 60228

Insulation:

PVC complying with standard UL-CSA

Core ident. :

sect.0,34 mm² colour complying
with DIN 47100

sect.0,5-50 mm² black num.
+G/Y complying with VDE 0293,
CEI UNEL 00725-74

Core assembling:

special multi-ply with soft strip
on outer layer

Jacket material:

special compound type PVC,
colour grey RAL 7001

Shielding, only for

Tinned copper braid: > 80%

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4100303	3x0,34	4,45	34	10	25
4100403	4x0,34	4,70	36	13	32
4100503	5x0,34	5,15	39	16	38
4100703	7x0,34	5,38	41	23	47
4101203	12x0,34	6,83	52	40	74
4101803	18x0,34	8,73	66	59	90
4102503	25x0,34	9,98	75	82	110
4100305X**	3x0,50	6,24	47	15	50
4100305	3G0,50	6,24	47	15	50
4100405	4G0,50	6,73	51	19	62
4100505	5G0,50	7,20	54	24	73
4100705	7G0,50	8,55	65	34	105
4101205	12G0,50	10,85	82	58	160
4101805	18G0,50	13,10	99	86	246
4102505	25G0,50	15,15	114	120	330
4100307	3G0,75	6,75	51	22	60
4100407	4G0,75	7,33	55	29	70
4100507	5G0,75	8,40	63	36	82
4100707	7G0,75	9,15	69	51	90
4101207	12G0,75	11,85	89	87	204
4101807	18G0,75	14,30	108	130	295
4102507	25G0,75	17,90	135	180	370
4100210	2x1,0	6,70	50	20	58
4100310	3G1,0	7,05	53	29	75
4100410	4G1,0	8,15	62	38	100
4100510	5G1,0	8,75	66	48	120
4100710	7G1,0	9,65	73	67	150
4100810	8G1,0	11,3	85	77	170
4101210	12G1,0	12,85	97	115	250
4101810	18G1,0	15,15	114	173	360
4102510	25G1,0	19,25	145	240	560
4100315	3G1,5	8,12	61	43	100
4100415	4G1,5	8,75	66	58	120
4100515	5G1,5	9,62	73	72	150
4100715	7G1,5	10,55	80	101	190
4101215	12G1,5	14,15	109	173	320
4101815	18G1,5	17,20	129	260	500
4102515	25G1,5	21,00	158	360	700
4100325	3G2,5	9,70	73	72	145
4100425	4G2,5	10,45	79	96	185
4100725	7G2,5	13,00	98	168	298
4101225	12G2,5	17,60	132	288	526
4100440	4G4,0	13,20	99	158	288
4100460	4G6,0	14,30	108	230	390
4104100	4G10,0	18,10	136	390	625
4104160	4G16,0	22,80	171	690	960



* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

** without yellow/green

Signal, Control and Power cables Shielded with PVC jacket

BC411



Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4110203	2x0,34	xx	xx	xx	xx
4110303	3x0,34	4,80	36	19	40
4110403	4x0,34	5,30	40	24	46
4110503	5x0,34	5,50	42	28	51
4110703	7x0,34	5,90	45	36	64
4110803	8x0,34	6,40	48	45	73
4111203	12x0,34	7,25	55	58	105
4111803	18x0,34	8,95	68	85	136
4112503	25x0,34	10,55	80	122	180
4110305	3G0,50	6,65	50	39	70
4110405	4G0,50	7,25	55	46	83
4110505	5G0,50	8,22	62	54	100
4110705	7G0,50	8,83	67	70	120
4111205	12G0,50	11,40	86	100	206
4111805	18G0,50	13,74	104	153	240
4112505	25G0,50	15,80	119	202	330
4110307	3G0,75	7,26	55	48	78
4110407	4G0,75	7,85	59	59	85
4110507	5G0,75	8,90	67	69	110
4110707	7G0,75	9,70	73	90	150
4111207	12G0,75	12,35	93	129	250
4111807	18G0,75	14,95	113	205	360
4112507	25G0,75	18,45	139	271	480
4113407	34G0,75	xx	xx	xx	xx
4110310	3G1,0	7,45	56	57	96
4110410	4G1,0	8,65	65	70	120
4110510	5G1,0	9,33	70	81	150
4110710	7G1,0	10,28	78	110	190
4111210	12G1,0	13,30	100	182	300
4111810	18G1,0	16,88	127	254	430
4112510	25G1,0	19,80	149	365	630
4110315	3G1,5	8,50	64	75	125
4110415	4G1,5	9,35	71	91	160
4110515	5G1,5	10,20	77	112	200
4110715	7G1,5	11,10	84	145	230
4111215	12G1,5	14,55	110	247	400
4111815	18G1,5	17,78	134	348	570
4112515	25G1,5	21,59	162	498	810
4110425	4G2,5	11,20	84	145	230
4110725	7G2,5	13,60	102	235	355
4111225	12G2,5	18,90	142	378	540
4110440	4G4,0	13,90	105	224	340
4110460	4G6,0	14,70	110	286	440
4114100	4G10,0	18,55	139	485	690
4114160	4G16,0	23,50	176	723	900

BC410 BC411

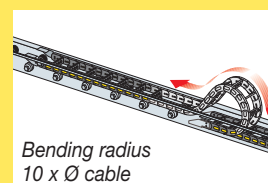
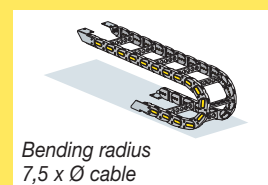
Speed: 180 m/min
Acceleration: 10 m/s²

Complying with UL and CSA for the
European and USA market

Nominal voltage 300V UL/CSA
for section ≤ 0,34 mm²

Nominal voltage 600V UL/CSA
for section ≥ 0,5 mm²

Very good oil resistant PVC
jacket



* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

For further information please
consult Brevetti Stendalto's
Technical Office

Signal and Control cables, inner insulation TPE-E with PUR jacket

BC418



Technical data: BC418 - 419

Nominal voltage:

sect.0,34 mm ²	300 V
sect.0,5-2,5 mm ²	600 V

Testing voltage:

sect.0,34 mm ²	1500 V
sect.0,5-2,5 mm ²	2000 V

Temperature range:

from -30°C to +80°C

Speed:

300 m/min

Acceleration:

25 m/s²

Burning characteristics:

IEC 60332.1
VDE 0472-804 test B,

Oil resistance:

VDE 0472 part 803/B,
UL 1581,

Homologation UL/CSA:

UL-AWM 80°C - 600V
CSA-AWM 80°C - 600V FT1

Construction

Conductor:

High-flexible class 6 complying with:
VDE 0295, IEC 60228

Insulation:

TPE-E

Core ident. :

sect.0,34 mm²
colour complying with DIN 47100
sect.0,5-2,5 mm²
black num. +G/Y complying with
VDE 0293,
CEI UNEL 00725-74

Core assembling:

special multi-ply with soft strip
on outer layer

Jacket material:

PUR complying with standard
UL/CSA, colour black

Shielding, only for BC419

Tinned copper braid: > 80%

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4180303	3x0,34	4,30	22	10	36
4180503	5x0,34	5,00	25	16	62
4180703	7x0,34	5,70	29	23	71
4181203	12x0,34	6,60	33	40	117
4181803	18x0,34	7,80	39	59	157
4182503	25x0,34	9,60	48	82	218
4180305	3G0,50	5,95	30	15	40
4180505	5G0,50	6,85	34	24	55
4180705	7G0,50	7,95	40	34	76
4181205	12G0,50	9,15	46	58	114
4181805	18G0,50	10,60	53	86	165
4182505	25G0,50	12,80	63	120	219
4180407	4G0,75	6,90	35	30	64
4180507	5G0,75	7,50	38	38	76
4180707	7G0,75	8,50	43	53	104
4181207	12G0,75	10,1	51	90	151
4181807	18G0,75	11,7	59	136	218
4182507	25G0,75	14,0	70	188	319
4180310	3G1,0	6,90	35	29	61
4180510	5G1,0	8,25	41	48	93
4180710	7G1,0	9,35	47	67	122
4181210	12G1,0	10,90	56	115	196
4181810	18G1,0	12,70	64	173	274
4182510	25G1,0	15,20	76	240	385
4183610	36G1,0	17,5	88	361	560
4180315	3G1,5	7,60	38	45	81
4180415	4G1,5	8,35	42	58	100
4180515	5G1,5	9,05	45	72	128
4180715	7G1,5	10,44	52	101	177
4181215	12G1,5	12,43	62	173	275
4181815	18G1,5	14,65	73	260	405
4182515	25G1,5	17,30	87	360	565
4180425	4G2,5	9,30	47	96	150
4180525	5G2,5	10,20	51	125	176
4180725	7G2,5	11,80	59	168	238
4181225	12G2,5	15,70	160	288	400
4181825	18G2,5	18,70	140	441	650
4182525	25G2,5	22,10	225	580	900
4180540	5G4	13,10	98	192	318



* self-supporting chains; bending radius for sliding chains = 7,5 x outer cable diameter
except for 4181225, 4181825, 4182525, 4180540

Signal and Control cables inner insulation TPE-E Shielded with PUR jacket

BC419



Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4191202	12x0,25	6,90	35	49	80
4190303	3x0,34	4,70	24	19	56
4190503	5x0,34	5,40	27	28	76
4190703	7x0,34	6,40	32	36	95
4191203	12x0,34	7,20	36	58	163
4191803	18x0,34	8,30	42	85	198
4192503	25x0,34	10,10	51	122	297
4190305	3G0,50	6,90	35	39	79
4190505	5G0,50	7,70	39	54	107
4190705	7G0,50	8,70	44	70	132
4190805	8G0,50	9,40	47	62	121
4191205	12G0,50	10,20	51	100	190
4191805	18G0,50	11,50	58	153	245
4192505	25G0,50	13,60	68	202	367
4190207	2x0,75	7,00	35	27	62
4190407X	4x0,75	7,70	39	44	79
4190507	5G0,75	8,40	42	56	95
4190707	7G0,75	9,40	47	75	127
4191207	12G0,75	11,00	55	118	178
4191807	18G0,75	12,50	63	173	249
4192507	25G0,75	14,80	74	234	357
4190310	3G1,0	7,70	39	57	109
4190510	5G1,0	8,90	45	81	147
4190710	7G1,0	10,00	50	110	196
4191210	12G1,0	11,80	59	182	292
4191810	18G1,0	13,70	69	254	418
4192510	25G1,0	16,20	81	365	575
4190415	4G1,5	9,10	46	91	136
4190515	5G1,5	9,70	49	112	198
4190715	7G1,5	11,00	55	145	254
4191215	12G1,5	13,10	66	247	416
4191815	18G1,5	15,20	76	348	564
4192515	25G1,5	18,50	93	498	811
4190425	4G2,5	10,20	51	145	203
4190525	5G2,5	12,50	63	158	244
4190725	7G2,5	13,00	65	235	343
4191225	12G2,5	16,50	125	378	499
4191825	18G2,5	20,60	155	600	760
4192525	25G2,5	23,90	240	835	1085



BC418 BC419

Speed: 300 m/min
Acceleration: 25 m/s²

Small outer dimension

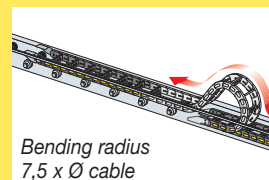
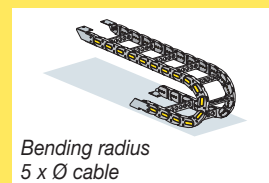
Min. bending radius

Complying with UL and CSA for the
European and USA market

Nominal voltage 300V UL/CSA
sect. ≤ 0,34 mm²
Nominal voltage 600V UL/CSA
sect. ≥ 0,34 mm²

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C



* self-supporting chains; bending radius for sliding chains = 7,5 x outer cable diameter
except for 4181225, 4181825, 4182525

For further information please
consult Brevetti Stendalto's
Technical Office

Multipair shielded signal cable with PVC jacket

BC412



BC412

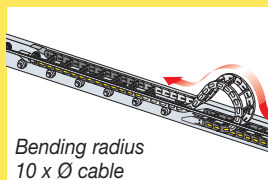
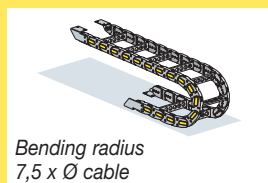
Speed: 180 m/min
Acceleration: 10 m/s²

Complying with UL and CSA for the
European and USA market

Nominal voltage 300V

Very good oil resistant PVC
jacket

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4120202	2x2x0,25	5,85	44	22	44
4120302	3x2x0,25	6,00	45	27	48
4120402	4x2x0,25	6,65	50	33	57
4120502	5x2x0,25	7,15	54	39	68
4120602	6x2x0,25	8,15	61	45	78
4120203	2x2x0,34	6,35	54	28	64
4120303	3x2x0,34	6,68	57	36	72
4120403	4x2x0,34	7,15	61	44	67
4120503	5x2x0,34	8,14	69	53	83
4120603	6x2x0,34	8,70	74	61	100



Technical data

Nominal voltage:	300 V
Testing voltage:	1500 V
Temperature range:	-10°C to +80°C
Speed:	180 m/min
Acceleration:	10 m/s ²
Burning characteristics:	CEI EN 50265-2-1, DIN EN 50265-2-1, NFC 32070 C2, IEC 60332.1.1
Flame resistance:	CEI 20-22/II, DIN EN 50266-2-5, NFC 32070 cat. C1 test 2, IEC 60332.3.24 cat. C
Oil resistance:	HD 385 - EN 60811-2-1, VDE 0472 part 803/B, UL 1581, CNOMO E.03.40.150, NFT 46-013
Homologation UL/CSA:	UL-AWM 80°C - 300V, CSA-AWM 80°C - 300 FT1

Construction

Conductor:	High-flexible class 5/6 complying with: CEI 20-29, VDE 0295, NFC 32012, IEC 228
Insulation:	PVC complying with standard UL-CSA
Core ident. :	colour complying with DIN 47100
Core assembling:	special with soft strip
Jacket material:	special compound type PVC, complying with UL/CSA, colour grey RAL 7001
Shielding:	Tinned copper braid: > 80 %

For further information please
consult Brevetti Stendalto's
Technical Office

* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

Multipair shielded signal cable with PUR jacket

BC413



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4130202	2x2x0,25	5,80	29	22	43
4130302	3x2x0,25	5,95	30	27	46
4130402	4x2x0,25	6,50	33	33	55
4130502	5x2x0,25	7,10	36	39	66
4130602	6x2x0,25	7,70	39	45	75
4130203	2x2x0,34	6,00	30	28	50
4130303	3x2x0,34	6,40	32	36	54
4130403	4x2x0,34	7,00	35	44	66
4130503	5x2x0,34	7,50	38	53	77
4130603	6x2x0,34	8,20	41	61	96
4131005	10x2x0,50	13,90	70	190	249



BC413

Speed: 300 m/min
Acceleration: 25 m/s²

Small outer dimension

Low min. bending radius

Complying with UL and CSA for the
European and USA market

Nominal voltage 300V

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C

Technical data

Nominal voltage:	300 V
Testing voltage:	1500 V
Temperature range:	-30°C to +80°C
Speed:	300 m/min
Acceleration:	25 m/s ²

Burning characteristics:

IEC 60332.1.1, VDE 0472-804 test B

Oil resistance:

VDE 0472 part 803/B, UL 1581

Homologation UL/CSA:

UL-AWM 80°C - 300V, CSA-AWM 80°C - 300 FT1

Construction

Conductor:

High-flexible class 6 complying with:
VDE 0295, IEC 60228

Insulation:

TPE

Core ident. :

colour complying with DIN 47100

Core assembling:

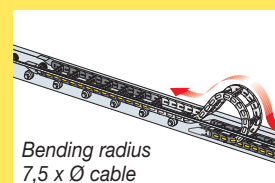
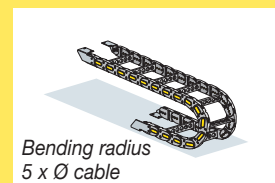
special with soft strip

Jacket material:

PUR complying with standard UL/CSA, colour black

Shielding:

Tinned copper braid: > 80 %



For further information please
consult Brevetti Stendalto's
Technical Office

Multipair shielded signal cable with PUR jacket

BC417



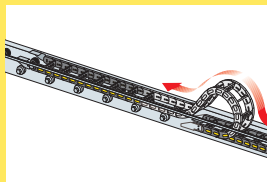
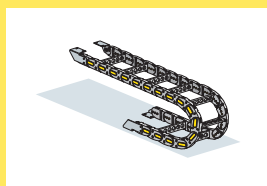
BC417

Speed: 240 m/min
Acceleration: 20 m/s²

Nominal voltage:
U_o/U 450/750 V
UL-AWM 1000 V
CSA AWM 1000 V

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C



For further information please
consult Brevetti Stendalto's
Technical Office

Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius mm	Copper weight kg/km	Cable weight kg/km
4170410	(4x2x1)C	12,6	126	129	226
4170410W	[4x(2x1)C]C	16,5	165	119	365
4170605	(6x2x0,5)C	11,7	117	95	174
4170615	(6x2x1,5)C	16,7	167	250	388
4170625	(6x2x2,5)C	22,0	220	411	620
4170615W	[6x(2x1,5)C]C	21,0	210	339	670
4171207W	[12x(2x0,75)C]C	25,0	250	343	780



417...



417...W

Technical data

Nominal voltage: VDE DIN 0245 part. 102 U_o/U 450/750 V
UL AWM 1000V - CSA AWM 1000V

Testing voltage: 2500 V

Temperature range: -30°C to + 80°C

Speed: 240 m/min

Acceleration: 20 m/s²

Burning characteristics:
UL 1581 - sect. 1090

Oil resistance:
VDE 0472 part 803/B, UL 1581, HD 22.10, EN 60811-2-1 (100°C x 16 h)

Homologation UL/CSA:
UL-AWM 80°C 1000 V - CSA AWM 75°C 1000 V FT1

Construction

Conductor:
High-flexible class 6 complying with:
VDE 0295, IEC 60228

Insulation:
polyolefine

Pairs shielded:
417... W Tinned copper braid: > 80%

Core assembling:
special with soft strip

Shielding:
Tinned copper braid: > 85 %

Jacket material:
PUR complying with standard UL/CSA, colour black

Core ident.

N°	Conductor A	Conductor B	N°	Conductor A	Conductor B
1	White	Blue	7	Red	Orange
2	White	Orange	8	Red	Green
3	White	Green	9	Red	Brown
4	White	Brown	10	Red	Grey
5	White	Grey	11	Black	Blue
6	Red	Blue	12	Black	Orange



Servo Motor Cables

BC420N

Supply cable for brushless motors
with PUR jacket

page 24

BC421N

Shielded supply cable for brushless motors
with PUR jacket

page 25

BC423LC

Supply cable for brushless motors
with PVC jacket

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BC423ALC

Shielded supply cable for brushless motors
with PVC jacket

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BC421LC

Shielded supply cable for brushless motors
with PUR jacket

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BC430LC

Shielded supply cable for Indramat® brushless motors
with PUR jacket

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BC435LC

Shielded supply cable for brushless motors
with PUR jacket

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BC427

Single core cable with PVC jacket

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BC427C

Single core shielded cable with PVC jacket

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BC425

Single core cable with PUR jacket

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BC426

Single core shielded cable with PUR jacket

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BC428

Power cable with PUR jacket

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BC429

Shielded power cable with PUR jacket

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BTC423LC

Motor-Servocable in accordance to Siemens® Standard 6FX5
without brake. PVC jacket

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BTC423ALC

Motor-Servocable in accordance to Siemens® Standard 6FX5
with brake. PVC jacket

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BTC440

Motor-Servocable + connectors in accordance to Siemens® Standard
6FX5. PVC Jacket

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BTC421LC

Motor-Servocable in accordance to Siemens® Standard 6FX8
without brake. PUR jacket

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BTC435LC

Motor-Servocable in accordance to Siemens® Standard 6FX8
with brake. PUR jacket

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BTC440

Motor-Servocable + connectors in accordance to Siemens® Standard
6FX8. PVC Jacket

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Supply cable for brushless motors with PUR jacket

BC420N



BC420N

Speed: 240 m/min
Acceleration: 20 m/s²

Complying with UL and CSA for the
European and USA market

Nominal voltage U₀/U 600/1000

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C

Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius mm	Copper weight kg/km	Cable weight kg/km
4200425N	4G2,5	10,0	100	96	156
4200440N	4G4,0	12,4	130	158	255
4200460N	4G6,0	14,4	150	230	300
4200560N	5G6,0	15,5	155	285	420
4204100N	4G10,0	17,6	170	390	550
4205100N	5G10,0	20,0	200	480	770
4204160N	4G16,0	21,0	210	690	850
4205160N	5G16,0	22,7	227	768	1052
4204250N	4G25,0	25,8	260	960	1280
4205250N	5G25,0	28,0	280	1200	1500
4204350N	4G35,0	29,0	290	1344	1800



Technical data

Nominal voltage: U₀/U 600/1000V

Testing voltage: 4000 V

Temperature range: -30°C to + 80°C

Speed: 240 m/min

Acceleration: 20 m/s²

Burning characteristics:

UL1581 sect. 1090, IEC 60332.1

Oil resistance:

VDE 0472 part 803/B, EN 60811.2.1, UL 1581, HD 22.10

Homologation UL/CSA:

UL-AWM 80°C 1000V - CSA AWM 75°C 1000V FT1

Construction

Conductor:

High-flexible class 6 complying with:
IEC 60228

Insulation:

polyolefine complying with UL/CSA

Core ident. :

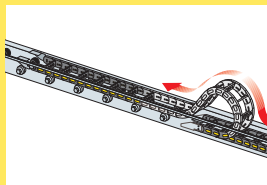
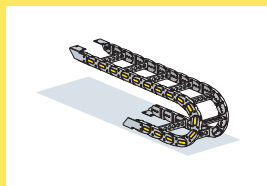
black num. + G/Y

Core assembling:

special with soft strip

Jacket material:

special compound PUR, colour black



For further information please
consult Brevetti Stendalto's
Technical Office

Shielded supply cable for brushless motors with PUR jacket

BC421N



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4210425N	4G2,5	10,60	100	145	210
4210440N	4G4,0	13,20	135	224	290
4210460N	4G6,0	14,80	150	286	402
4214100N	4G10,0	18,10	180	485	640
4214160N	4G16,0	21,55	210	723	935
4214250N	4G25,0	26,50	260	1089	1400



BC421N

Speed: 240 m/min
Acceleration: 20 m/s²

Complying with UL and CSA for the European and USA market

Nominal voltage U₀/U 600/1000

Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C

Technical data

Nominal voltage: U₀/U 600/1000V

Testing voltage: 4000 V

Temperature range: -30°C to + 80°C

Speed: 240 m/min

Acceleration: 20 m/s²

Burning characteristics:

UL1581 sect. 1090, IEC 60332.1

Oil resistance:

VDE 0472 part 803/B, EN 60811.2.1, UL 1581, HD 22.10

Homologation UL/CSA:

UL-AWM 80°C 1000V - CSA AWM 75°C 1000V FT1

Construction

Conductor:

High-flexible class 6 complying with:
IEC 60228

Insulation:

polyolefine complying with UL/CSA

Core ident. :

black num. + G/Y

Core assembling:

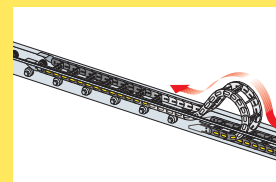
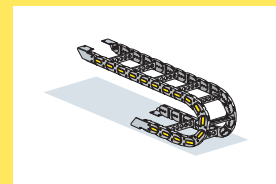
special with strip up and down the shielding

Jacket material:

special compound PUR, colour black

Shielding:

Tinned copper braid: > 80 %



For further information please consult Brevetti Stendalto's Technical Office

Shielded supply cable for brushless motors with PVC jacket. Low capacitance

BC423LC



BC423LC

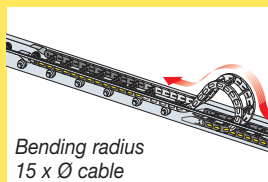
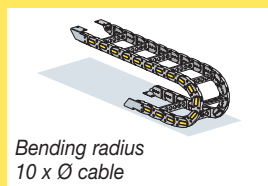
Speed: 180 m/min
Acceleration: 15 m/s²

Complying with UL and CSA for the
European and USA market

Nominal voltage:
AWM 600/1000V

Very good oil resistant PVC
jacket

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4230415LC	4G1,5	9,10	91	94	130
4230425LC	4G2,5	10,60	106	142	188
4230440LC	4G4,0	11,90	120	207	270
4230460LC	4G6,0	14,50	145	304	413
4234100LC	4G10,0	17,40	174	486	610
4234160LC	4G16,0	21,50	215	750	950
4234250LC	4G25,0	25,30	255	1143	1420
4234350LC	4G35,0	28,60	290	1540	1900
4234500LC	4G50,0	33,40	350	2247	2850



Technical data

Nominal voltage: AWM 600/1000 V

Testing voltage: 4000 V

Temperature range: -15°C to + 80°C

Speed: 180 m/min

Acceleration: 15 m/s²

Burning characteristics:

CEI EN 50265-2-1, DIN EN 50265-2-1, NFC 32070 C2, IEC 60332.1.1

Oil resistance:

VDE 0472 part 803/B, EN 60811.2.1, VDE 0282 p.10, HD 22.10 S1

Homologation UL/CSA:

UL-AWM 80°C 600/1000V - CSA AWM 80°C 600/1000V FT1

Construction

Conductor:

High-flexible class 6 complying with:
CEI 20-29, VDE 0295, NFC 32012, IEC 60228

Insulation:

Teo flexene®

Core ident. :

power U-V-W+G/Y

Core assembling:

special with strip up and down the shielding

Jacket material:

special compound a base PVC complying with UL/CSA, colour orange RAL 2003

Shielding:

Tinned copper braid: > 80 %

For further information please
consult Brevetti Stendalto's
Technical Office

* self-supporting chains; bending radius for sliding chains = 15 x outer cable diameter

Shielded supply cable for brushless motors with PVC jacket. Low capacitance

BC423ALC



Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4230415ALC	4G1,5+2x1,5	11,60	116	155	223
4230425ALC	4G2,5+2x1,5	13,40	134	204	283
4230440ALC	4G4,0+2x1,5	14,80	148	272	362
4230460ALC	4G6,0+2x1,5	16,80	168	364	488
4234100ALC	4G10,0+2x1,5	19,40	194	552	692
4234160ALC	4G16,0+2x1,5	23,10	231	803	990
4234250ALC	4G25,0+2x1,5	26,60	266	1166	1430
4234350ALC	4G35,0+2x1,5	30,90	309	1570	2025
4234500ALC	4G50,0+2x1,5	34,00	350	2299	3050



BC423ALC

Speed: 180 m/min
Acceleration: 15 m/s²

Complying with UL and CSA for the European and USA market

Nominal voltage:
AWM 600/1000V

Very good oil resistant PVC jacket

Technical data

Nominal voltage: AWM 600/1000 V; signal: 250 V

Testing voltage: 4000 V; signal: 2000 V

Temperature range: -15°C to + 80°C

Speed: 180 m/min

Acceleration: 15 m/s²

Burning characteristics:

CEI EN 50265-2-1, DIN EN 50265-2-1, NFC 32070 C2, IEC 60332.1.1

Oil resistance:

VDE 0472 part 803/B, EN 60811.2.1, VDE 0282 p.10, HD 22.10 S1

Homologation UL/CSA:

UL-AWM 80°C 600/1000V - CSA AWM 80°C 600/1000V FT1

Construction

Conductor:

High-flexible class 6 complying with:

CEI 20-29, VDE 0295, NFC 32012, IEC 60228

Insulation:

Teo flexene®

Core ident. :

power U-V-W+G/Y; signal for BC423A: black-white

Core assembling:

special with strip up and down the shielding

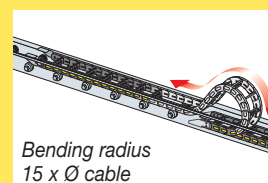
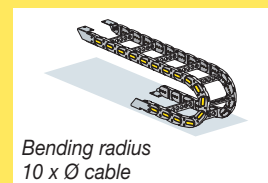
Jacket material:

special compound a base PVC complying with UL/CSA, colour orange RAL 2003

Shielding:

power: Tinned copper braid: > 80 %

signal: Tinned copper braid: > 80 %



* self-supporting chains; bending radius for sliding chains = 15 x outer cable diameter

For further information please
consult Brevetti Stendalto's
Technical Office

Shielded supply cable for brushless motors with PUR jacket. Low capacitance

BC421LC



Technical : BC421LC-430LC-435LC

Nominal voltage:

power: 600/1000 V

signal: 250 V

Testing voltage:

power: 4000 V

signal: 2000 V

Temperature range:

from -30°C to +80°C

Speed:

300 m/min

Acceleration:

50 m/s²

Burning characteristics:

CEI 20-35, VDE 0472-804 test A,
NFC 32070 cat. C1 test 1, IEC 60332.1

Oil resistance:

BC421 -BC435

VDE 0472 part 803/B, UL 1581,
VDE 0282 10, HD22.10 S1

BC430

VDE 0472 part 803 A/B, UL 1581,
VDE 0282 part 10, HD 22.10 S1

Homologation UL/CSA:

UL-AWM 80°C - 1000V

CSA-AWM 80°C - 1000V FT1

Construction

Conductor:

High-flexible class 6 complying with:

CEI 20-29, VDE 0295,

NFC 32012, IEC 60228

Insulation:

Teo flexene®

Core ident. :

BC421-BC435

power: black U-V-W- + G/V

signal: black-white

BC430

power: black num. 1-2-3 +G/V

signal: black num. 5-6-7-8

Core assembling:

special multi-ply with soft strip
on outer layer

Jacket material:

BC421-BC435

PUR complying with standard
UL/CSA, colour orange RAL 2003

BC430 PUR colour orange RAL 2003

Shielding:

BC421-BC435

Total: Tinned copper braid > 85%

BC435 Signal: Tinned copper
braid, > 80%

BC430 Total: Tinned copper
braid > 85%

Signal: Tinned copper braid > 85%,
+ all/polyester, 100%

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4210415LC	4G1,5	8,50	64	92	137
4210425LC	4G2,5	10,00	75	142	188
4210440LC	4G4,0	11,70	88	207	265
4210460LC	4G6,0	13,80	103	309	399
4214100LC	4G10,0	17,30	132	489	620
4214160LC	4G16,0	21,40	160	749	1009
4214250LC	4G25,0	24,80	186	1063	1480
4214350LC	4G35,0	28,60	215	1545	1950
4214500LC	4G50,0	33,40	251	2190	2900



Shielded supply cable for Indramat® brushless motors with PUR jacket. Low capacitance

BC430LC



Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4300407LC	4G0,75+2x2x0,75	9,60	72	90	130
4300410LC	4G1+2x2x0,75	11,40	85	170	201
4300415LC	4G1.5+2x2x0,75	12,10	91	189	220
4300425LC	4G2.5+2x2x1	14,60	110	223	311
4300440LC	4G4+2x1+2x1.5	16,30	122	309	440
4300460LC	4G6+2x1+2x1.5	18,10	136	395	510
4304100LC	4G10+2x1+2x1.5	21,80	163	575	772
4304160LC	4G16+2x2x1.5	25,12	188	838	1100
4304250LC	4G25+2x2x1.5	28,80	216	1250	1600
4304350LC	4G35+2x2x1.5	30,90	232	1588	2000
4304500LC	4G50+2x2x2.5	36,30	272	2351	3050



* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

Shielded supply cable for brushless motors with PUR jacket. Low capacitance

BC435LC



Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	
4350415LC	4G1,5+2x1,5	10,80	81	155	213
4350425LC	4G2,5+2x1,5	12,60	95	204	283
4350440LC	4G4+2x1,5	14,10	106	266	368
4350460LC	4G6+2x1,5	16,00	120	370	495
4354100LC	4G10+2x1,5	18,70	140	559	692
4354160LC	4G16+2x1,5	22,50	169	805	1027
4354250LC	4G25+2x1,5	26,00	202	1176	1431
4354350LC	4G35+2x1,5	30,90	232	1570	1953
4354500LC	4G50+2x1,5	34,00	255	2210	2740



BC421LC BC430LC BC435LC

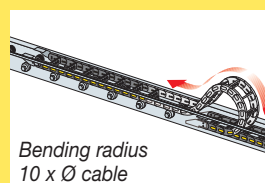
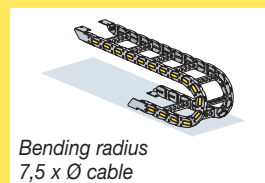
Speed: 300 m/min
Acceleration: 50 m/s²

High flexible, small outer dimension,
with low min. bending radius

Complying with UL and CSA for the
European and USA market

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C



* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

For further information please
consult Brevetti Stendalto's
Technical Office

Single core cable with PVC jacket

BC427



BC427

Speed: 180 m/min
Acceleration: 10 m/s²

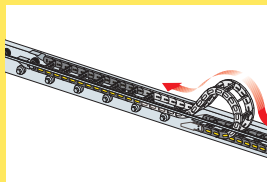
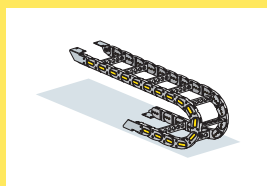
Complying with UL for the
European and USA market

Nominal voltage 1000 V

Resistant to the rays U.V.

Very good oil resistant PVC jacket

Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius mm	Copper weight kg/km	Cable weight kg/km
4270106	1x6	7,50	75	57	110
4270110	1x10	8,60	85	97	154
4270116	1x16	10,70	105	153	234
4270125	1x25	12,20	120	230	340
4270135	1x35	13,90	140	360	433
4270150	1x50	15,70	155	520	622
4270170	1x70	19,00	190	710	920
4270195	1x95	21,00	210	920	1200



Technical data

Nominal voltage:	1000 V
Testing voltage:	4000 V
Temperature range:	-10°C to + 80°C
Speed:	180 m/min
Acceleration:	10 m/s ²

Burning characteristics:

IEC 60332.1

Flame resistance:

IEC 60332.3.24 cat C

Oil resistance:

VDE 0472 part 803/B, UL 1581, CEI EN 60811,
CNOMO E.03.40.150 NFT 46-013

Homologation UL/CSA:

UL-AWM 80°C 1000V

Construction

Conductor:

High-flexible class 6 complying with
IEC 60228

Insulation:

PVC

Jacket material:

special compound type PVC, colour black

For further information please
consult Brevetti Stendalto's
Technical Office

Single core shielded cable with PVC jacket

BC427C



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4270106C	1x6	8,00	80	78	122
4270110C	1x10	9,50	95	123	178
4270116C	1x16	11,00	110	182	273
4270125C	1x25	13,00	130	268	375
4270135C	1x35	14,00	140	400	481
4270150C	1x50	16,50	165	580	660
4270170C	1x70	20,00	200	765	967
4270195C	1x95	22,00	220	1010	1264



BC427C

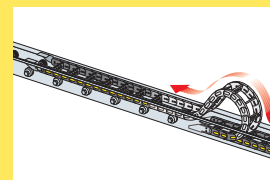
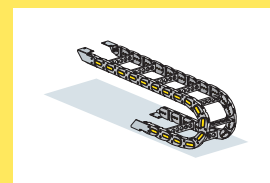
Speed: 180 m/min
Acceleration: 10 m/s²

Complying with UL for the
European and USA market

Nominal voltage 1000 V

Resistant to the rays U.V.

Very good oil resistant PVC jacket



Technical data

Nominal voltage: 1000 V
Testing voltage: 4000 V
Temperature range: -10°C to + 80°C
Speed: 180 m/min
Acceleration: 10 m/s²

Burning characteristics:
IEC 60332.1

Flame resistance:
IEC 60332.3.24 cat C

Oil resistance:
VDE 0472 part 803/B, UL 1581, CEI EN 60811,
CNOMO E.03.40.150 NFT 46-013

Homologation UL:
UL-AWM 80°C 1000V

Construction

Conductor:
High-flexible class 6 complying with
IEC 60228

Insulation:
PVC

Jacket material:
special compound type PVC, colour black

Shielding:
Tinned copper braid: > 85 %

For further information please
consult Brevetti Stendalto's
Technical Office

Single core cable with PUR jacket

BC425



BC425

Speed: 300 m/min
Acceleration: 25 m/s²

Complying with UL for the
European and USA market

Nominal voltage 600/1000 V

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4250110	1x10	8,10	61	97	140
4250116	1x16	9,50	71	153	190
4250125	1x25	11,40	85	230	290
4250135	1x35	12,60	95	360	400
4250150	1x50	15,00	110	520	681
4250170	1x70	16,90	130	710	825
4250195	1x95	18,20	135	920	1039
4251120	1x120	21,50	160	1170	1340
4251150	1x150	22,60	170	1470	1650
4251185	1x185	26,10	195	1776	1950
4251240	1x240	29,00	218	2400	2833



Technical data

Nominal voltage: 600/1000 V

Testing voltage: 3000 V

Temperature range: -30°C to + 80°C

Speed: 300 m/min

Acceleration: 25 m/s²

Burning characteristics:

IEC 60332.1, VDE 0472-804 test B; UL 1581

Oil resistance:

VDE 0472 part 803/B

Homologation UL:

UL-AWM 80°C 1000V

Construction

Conductor:

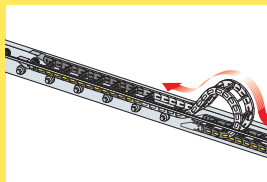
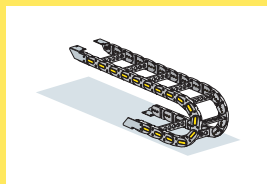
High-flexible class 6 complying with:
IEC 60228

Insulation:

TPE-E

Jacket material:

PUR complying with standard UL/CSA, colour black



For further information please
consult Brevetti Stendalto's
Technical Office

Single core shielded cable with PUR jacket

BC426



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4260110	1x10	8,90	67	123	170
4260116	1x16	10,10	76	182	230
4260125	1x25	11,90	89	276	350
4260135	1x35	13,30	100	400	450
4260150	1x50	15,90	120	580	736
4260170	1x70	17,40	130	765	885
4260195	1x95	19,50	145	1010	1119
4261120	1x120	22,50	165	1230	1430
4261150	1x150	24,00	180	1610	1730
4261185	1x185	26,80	200	2010	2130
4261240	1x240	31,00	233	2487	2974



BC426

Speed: 300 m/min
Acceleration: 25 m/s²

Complying with UL for the
European and USA market

Nominal voltage 600/1000 V

Polyurethan jacket resistant to
hydrolysis, microbics and oils

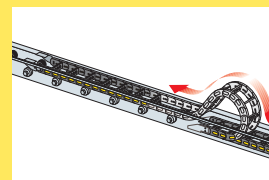
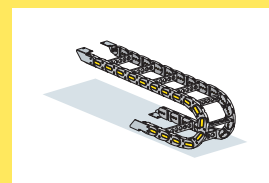
Suitable for outdoor applications at
-30°C

Technical data

Nominal voltage:	600/1000 V
Testing voltage:	3000 V
Temperature range:	-30°C to + 80°C
Speed:	300 m/min
Acceleration:	25 m/s ²
Burning characteristics:	IEC 60332.1, VDE 0472-804 test B; UL 1581
Oil resistance:	VDE 0472 part 803/B
Homologation UL:	UL-AWM 80°C 1000V

Construction

Conductor:	High-flexible class 6 complying with: IEC 60228
Insulation:	TPE-E
Jacket material:	PUR complying with standard UL/CSA, colour black
Shielding:	Tinned copper braid: > 85 %



For further information please
consult Brevetti Stendalto's
Technical Office

BC428 BC429

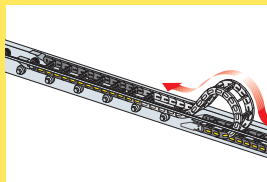
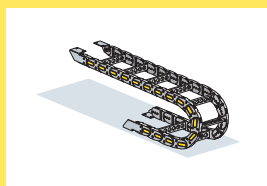
Speed: 240 m/min
Acceleration: 10 m/s²

Complying with UL and CSA for the
European and USA market

Nominal voltage
U₀/U 600/1000V

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C



For further information please
consult Brevetti Stendalto's
Technical Office

Power cable with PUR jacket

BC428



Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius mm	Copper weight kg/km	Cable weight kg/km
428350PE	3x50+3x10 PE	37	370	1728	1995
428370PE	3x70+3x12 PE	39	390	2362	2835
428395PE	3x95+3x16 PE	45	450	3198	4008



Shielded power cable with PUR jacket

BC429



Part .No	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius mm	Copper weight kg/km	Cable weight kg/km
429350PE	3x50+3x10 PE	38	380	1985	2900



Technical data: BC428 - BC429

Nominal voltage: U₀/U 600/1000 V

Testing voltage: 4000 V

Temperature range: -30°C to + 80°C

Speed: 240 m/min

Acceleration: 10 m/s²

Burning characteristics:

UL 1581 sect. 1090

Oil resistance:

VDE 0472 part 803/B, EN 60811.2.1, UL 1581, HD 22.10

Homologation UL/CSA:

UL-AWM 80°C 1000V - CSA AWM 75°C 1000V FT1

Construction

Conductor: High-flexible class 5/6 complying with:
IEC 60228

Insulation: polyolefine complying with UL/CSA

Core ident. : black num. + G/Y

Core assembling: special with strip up and down the shielding

Jacket material: special compound PUR, colour black, Kevlar reinforcement

Shielding: only for BC429: Tinned copper braid: > 85 %

Motor-Servocable + connectors in accordance to Siemens® Standard 6FX5 without brake

PVC Jacket

BTC423LC



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm ²	mm	mm
6FX5002-5CA01	4235CA01xxxy	4230415LC	4G1,5	9,10	91
6FX5002-5CA21	4235CA21xxxy	4230415LC	4G1,5	9,10	91
6FX5002-5CA11	4235CA11xxxy	4230425LC	4G2,5	10,60	106
6FX5002-5CA31	4235CA31xxxy	4230425LC	4G2,5	10,60	106
6FX5002-5CA41	4235CA41xxxy	4230440LC	4G4,0	11,90	120
6FX5002-5CA51	4235CA51xxxy	4230460LC	4G6,0	14,50	145
6FX5002-5CA61	4235CA61xxxy	4234100LC	4G10,0	17,40	174
6FX5002-5CA13	4235CA13xxxy	4234100LC	4G10,0	17,40	174
6FX5002-5CA23	4235CA23xxxy	4234160LC	4G16,0	21,50	215



BTC423LC

Speed: 180 m/min
Acceleration: 15 m/s²

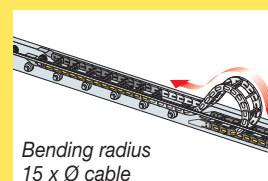
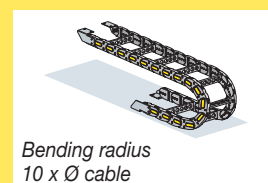
Complying with UL and CSA for the European and USA market

Nominal voltage:
AWM 600/1000V

Very good oil resistant PVC jacket

TECHNICAL DATA
see page. 26

Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm ²	mm	mm
6FX5002-5CS01	4235CS01xxxy	4230415LC	4G1,5	9,10	91
6FX5002-5CS21	4235CS21xxxy	4230415LC	4G1,5	9,10	91
6FX5002-5CS11	4235CS11xxxy	4230425LC	4G2,5	10,60	106
6FX5002-5CS31	4235CS31xxxy	4230425LC	4G2,5	10,60	106
6FX5002-5CS41	4235CS41xxxy	4230440LC	4G4,0	11,90	120
6FX5002-5CS51	4235CS51xxxy	4230460LC	4G6,0	14,50	145
6FX5002-5CS61	4235CS61xxxy	4234100LC	4G10,0	17,40	174
6FX5002-5CS13	4235CS13xxxy	4234100LC	4G10,0	17,40	174



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm ²	mm	mm
6FX5002-5CA05	4235CA05xxxy	4230415LC	4G1,5	9,10	91
6FX5002-5CA28	4235CA28xxxy	4230415LC	4G1,5	9,10	91
6FX5002-5CA15	4235CA15xxxy	4230425LC	4G2,5	10,60	106
6FX5002-5CA38	4235CA38xxxy	4230425LC	4G2,5	10,60	106
6FX5002-5CA48	4235CA48xxxy	4230440LC	4G4,0	11,90	120
6FX5002-5CA58	4235CA58xxxy	4230460LC	4G6,0	14,50	145
6FX5002-5CA68	4235CA68xxxy	4234100LC	4G10,0	17,40	174



* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

** Complete the code by inserting the value of the cable length (xxxy). xxx=m; y=dm
Ex.: 0001 = 0,1 m; 0010 = 1 m; 0120 = 12 m; 1230 = 123 m; 1334 = 133,4 m

For further information please
consult Brevetti Stendalto's
Technical Office

Motor-Servocable + connectors in accordance to Siemens® Standard 6FX5 with brake. PVC Jacket

BTC423ALC



BTC423ALC

Speed: 180 m/min
Acceleration: 15 m/s²

Complying with UL and CSA for the
European and USA market

Nominal voltage:
AWM 600/1000V

Very good oil resistant PVC
jacket

TECHNICAL DATA
see page. 27

Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius* mm
6FX5002-5DA01	4235DA01xxxy	4230415ALC	4G1,5+2x1,5	11,60	116
6FX5002-5DA21	4235DA21xxxy	4230415ALC	4G1,5+2x1,5	11,60	116
6FX5002-5DA11	4235DA11xxxy	4230425ALC	4G2,5+2x1,5	13,40	134
6FX5002-5DA31	4235DA31xxxy	4230425ALC	4G2,5+2x1,5	13,40	134
6FX5002-5DA41	4235DA41xxxy	4230440ALC	4G4,0+2x1,5	14,80	148
6FX5002-5DA51	4235DA51xxxy	4230460ALC	4G6,0+2x1,5	16,80	168
6FX5002-5DA61	4235DA61xxxy	4234100ALC	4G10,0+2x1,5	19,40	194
6FX5002-5DA13	4235DA13xxxy	4234100ALC	4G10,0+2x1,5	19,40	194
6FX5002-5DA23	4235DA23xxxy	4234160ALC	4G16,0+2x1,5	23,10	231
6FX5002-5DA33	4235DA33xxxy	4234250ALC	4G25,0+2x1,5	26,60	266
6FX5002-5DA43	4235DA43xxxy	4234350ALC	4G35,0+2x1,5	30,90	309
6FX5002-5DA53	4235DA53xxxy	4234500ALC	4G50,0+2x1,5	34,00	350



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius* mm
6FX5002-5DS01	4235D01xxxy	4230415ALC	4G1,5+2x1,5	11,60	116
6FX5002-5DS21	4235D21xxxy	4230415ALC	4G1,5+2x1,5	11,60	116
6FX5002-5DS11	4235D21xxxy	4230425ALC	4G2,5+2x1,5	13,40	134
6FX5002-5DS31	4235D31xxxy	4230425ALC	4G2,5+2x1,5	13,40	134
6FX5002-5DS41	4235D41xxxy	4230440ALC	4G4,0+2x1,5	14,80	148
6FX5002-5DS51	4235D51xxxy	4230460ALC	4G6,0+2x1,5	16,80	168
6FX5002-5DS61	4235D61xxxy	4234100ALC	4G10,0+2x1,5	19,40	194
6FX5002-5DS13	4235D13xxxy	4234100ALC	4G10,0+2x1,5	19,40	194

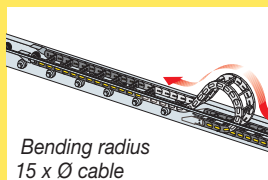
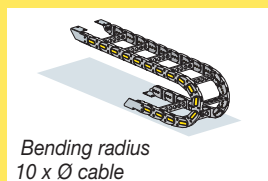


Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius* mm
6FX5002-5DA05	4235DA05xxxy	4230415ALC	4G1,5+2x1,5	11,60	116
6FX5002-5DA28	4235DA28xxxy	4230415ALC	4G1,5+2x1,5	11,60	116
6FX5002-5DA15	4235DA15xxxy	4230425ALC	4G2,5+2x1,5	13,40	134
6FX5002-5DA38	4235DA38xxxy	4230425ALC	4G2,5+2x1,5	13,40	134
6FX5002-5DA48	4235DA48xxxy	4230440ALC	4G4,0+2x1,5	14,80	148
6FX5002-5DA58	4235DA58xxxy	4230460ALC	4G6,0+2x1,5	16,80	168
6FX5002-5DA68	4235DA68xxxy	4234100ALC	4G10,0+2x1,5	19,40	194



* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

** Complete the code by inserting the value of the cable length (xxxy). xxx=m; y=dm
Ex.: 0001 = 0,1 m; 0010 = 1 m; 0120 = 12 m; 1230 = 123 m; 1334 = 133,4 m



For further information please
consult Brevetti Stendalto's
Technical Office

Motor-Servocable + connectors in accordance to Siemens® Standard 6FX5.

PVC Jacket

BTC440



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm
6FX5002-2AD00	440VAD00xxxxy	4400016	[3x(2x0,14)C+4x0,14+2x0,50]C	8,50
6FX5002-2AH00	440VAH00xxxxy	4400018	4x2x0,38+4x0,50	8,90
6FX5002-2CA11	440VCA11xxxxy	4400018	4x2x0,38+4x0,50	8,90
6FX5002-2CA15	440VCA15xxxxy	4400016	[3x(2x0,14)C+4x0,14+2x0,50]C	8,50
6FX5002-2CA31	440VCA31xxxxy	4400019	[3x(2x0,14)C+4x0,14+4x0,25+2x0,50]C	9,50
6FX5002-2CA51	440VCA51xxxxy	4400016	[3x(2x0,14)C+4x0,14+2x0,50]C	9,50
6FX5002-2CA61	440VCA61xxxxy	4400016	[3x(2x0,14)C+4x0,14+2x0,50]C	8,50
6FX5002-2CA71	440VCA71xxxxy	4400018	4x2x0,38+4x0,50	8,90
6FX5002-2CB51	440VCB51xxxxy	4400018	4x2x0,38+4x0,50	8,90
6FX5002-2CC11	440VCC11xxxxy	4400018	4x2x0,38+4x0,50	8,90
6FX5002-2CD01	440VCD01xxxxy	4400018	4x2x0,38+4x0,50	8,90
6FX5002-2CF02	440VCF02xxxxy	4400016	[3x(2x0,14)C+4x0,14+2x0,50]C	8,50
6FX5002-2CG00	440VCG00xxxxy	4400018	4x2x0,38+4x0,50	8,90
6FX5002-2CH00	440VCH00xxxxy	4400016	[3x(2x0,14)C+4x0,14+2x0,50]C	8,50
6FX5002-2EQ10	440VEQ10xxxxy	4400019	[3x(2x0,14)C+4x0,14+4x0,25+2x0,50]C	9,50



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm
6FX5002-2AD04	440VAD04xxxxy	4400016	[3x(2x0,14)C+4x0,14+2x0,50]C	8,50
6FX5002-2AH04	440VAH04xxxxy	4400018	4x2x0,38+4x0,50	8,90
6FX5002-2CB54	440VCB54xxxxy	4400018	4x2x0,38+4x0,50	8,90
6FX5002-2CA54	440VCA54xxxxy	4400016	[3x(2x0,14)C+4x0,14+2x0,50]C	9,50
6FX5002-2CA34	440VCA34xxxxy	4400019	[3x(2x0,14)C+4x0,14+4x0,25+2x0,50]C	9,50
6FX5002-2CF04	440VCF04xxxxy	4400016	4x2x0,38+4x0,50	8,50
6FX5002-2EQ14	440VEQ14xxxxy	4400019	[3x(2x0,14)C+4x0,14+4x0,25+2x0,50]C	9,50



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm
6FX5002-2DC00	440VDC00xxxxy	4400025	(2x2x0,15+2x0,38)C	7,20
6FX5002-2DC10	440VDC10xxxxy	4400025	(2x2x0,15+2x0,38)C	7,20
6FX5002-2DC20	440VDC20xxxxy	4400025	(2x2x0,15+2x0,38)C	7,20



* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

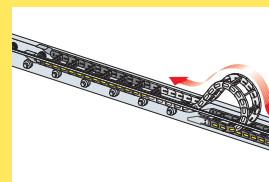
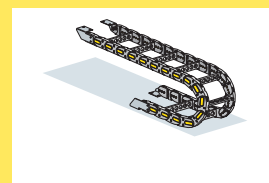
** Complete the code by inserting the value of the cable length (xxxxy). xxx=m; y=dm

Ex.: 0001 = 0,1 m; 0010 = 1 m; 0120 = 12 m; 1230 = 123 m; 1334 = 133,4 m

BTC440

Complying with UL and CSA for the European and USA market

Polyurethan jacket resistant to hydrolysis, microbics and oils



For further information please consult Brevetti Stendalto's Technical Office

Servomotor cable + compatible connectors with Siemens® Standard 6FX8 without brake PUR outer sheath **BTC421LC**



BTC421LC

Speed: 300 m/min
Acceleration: 50 m/s²

High flexible, small outer dimension,
with low min. bending radius

Complying with UL and CSA for the
European and USA market

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C

TECHNICAL DATA
see page. 28

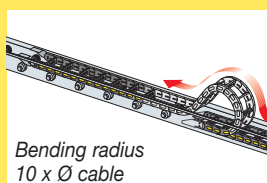
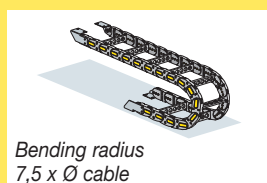
Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius* mm
6FX8002-5CA01	4215CA01xxxy	4210415LC	4G1,5	8,50	64
6FX8002-5CA21	4215CA21xxxy	4210415LC	4G1,5	8,50	64
6FX8002-5CA11	4215CA11xxxy	4210425LC	4G2,5	10,00	75
6FX8002-5CA31	4215CA31xxxy	4210425LC	4G2,5	10,00	75
6FX8002-5CA41	4215CA41xxxy	4210440LC	4G4,0	11,70	88
6FX8002-5CA51	4215CA51xxxy	4210460LC	4G6,0	13,80	103
6FX8002-5CA61	4215CA61xxxy	4214100LC	4G10,0	17,30	132
6FX8002-5CA13	4215CA13xxxy	4214100LC	4G10,0	17,30	132
6FX8002-5CA23	4215CA23xxxy	4214160LC	4G16,0	21,40	160



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius* mm
6FX8002-5CS01	4215CS01xxxy	4210415LC	4G1,5	8,50	64
6FX8002-5CS21	4215CS21xxxy	4210415LC	4G1,5	8,50	64
6FX8002-5CS11	4215CS11xxxy	4210425LC	4G2,5	10,00	75
6FX8002-5CS31	4215CS31xxxy	4210425LC	4G2,5	10,00	75
6FX8002-5CS41	4215CS41xxxy	4210440LC	4G4,0	11,70	88
6FX8002-5CS51	4215CS51xxxy	4210460LC	4G6,0	13,80	103
6FX8002-5CS61	4215CS61xxxy	4214100LC	4G10,0	17,30	132
6FX8002-5CS13	4215CS13xxxy	4214100LC	4G10,0	17,30	132



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius* mm
6FX8002-5CA05	4215CA05xxxy	4210415LC	4G1,5	8,50	64
6FX8002-5CA28	4215CA28xxxy	4210415LC	4G1,5	8,50	64
6FX8002-5CA15	4215CA15xxxy	4210425LC	4G2,5	10,00	75
6FX8002-5CA38	4215CA38xxxy	4210425LC	4G2,5	10,00	75
6FX8002-5CA48	4215CA48xxxy	4210440LC	4G4,0	11,70	88
6FX8002-5CA58	4215CA58xxxy	4210460LC	4G6,0	13,80	103
6FX8002-5CA68	4215CA68xxxy	4214100LC	4G10,0	17,30	132



Privo di alogeni

For further information please
consult Brevetti Stendalto's
Technical Office

* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

** Complete the code by inserting the value of the cable length (xxxy). xxx=m; y=dm
Ex.: 0001 = 0,1 m; 0010 = 1 m; 0120 = 12 m; 1230 = 123 m; 1334 = 133,4 m

**Servomotor cable + connectors compatible
with Siemens® Standard 6FX8 with brake
PUR outer sheath**

BTC435LC



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius* mm
6FX8002-5DA01	4355DA01xxxy	4350415LC	4G1,5+2x1,5	10,80	81
6FX8002-5DA21	4355DA21xxxy	4350415LC	4G1,5+2x1,5	10,80	81
6FX8002-5DA11	4355DA21xxxy	4350425LC	4G2,5+2x1,5	12,60	95
6FX8002-5DA31	4355DA31xxxy	4350425LC	4G2,5+2x1,5	12,60	95
6FX8002-5DA41	4355DA41xxxy	4350440LC	4G4,0+2x1,5	14,10	106
6FX8002-5DA51	4355DA51xxxy	4350460LC	4G6,0+2x1,5	16,00	120
6FX8002-5DA61	4355DA61xxxy	4354100LC	4G10,0+2x1,5	18,70	140
6FX8002-5DA13	4355DA13xxxy	4354100LC	4G10,0+2x1,5	18,70	140
6FX8002-5DA23	4355DA23xxxy	4354160LC	4G16,0+2x1,5	22,50	169
6FX8002-5DA33	4355DA33xxxy	4354250LC	4G25,0+2x1,5	26,00	202
6FX8002-5DA43	4355DA43xxxy	4354350LC	4G35,0+2x1,5	30,90	232
6FX8002-5DA53	4355DA53xxxy	4354500LC	4G50,0+2x1,5	34,00	255

BTC435LC

Speed: 300 m/min
Acceleration: 50 m/s²

High flexible, small outer dimension,
with low min. bending radius

Complying with UL and CSA for the
European and USA market

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C

TECHNICAL DATA
see page. 29



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius* mm
6FX8002-5DS01	4355DS01xxxy	4350415LC	4G1,5+2x1,5	10,80	81
6FX8002-5DS21	4355DS21xxxy	4350415LC	4G1,5+2x1,5	10,80	81
6FX8002-5DS11	4355DS21xxxy	4350425LC	4G2,5+2x1,5	12,60	95
6FX8002-5DS31	4355DS31xxxy	4350425LC	4G2,5+2x1,5	12,60	95
6FX8002-5DS41	4355DS41xxxy	4350440LC	4G4,0+2x1,5	14,10	106
6FX8002-5DS51	4355DS51xxxy	4350460LC	4G6,0+2x1,5	16,00	120
6FX8002-5DS61	4355DS61xxxy	4354100LC	4G10,0+2x1,5	18,70	140
6FX8002-5DS13	4355DS13xxxy	4354100LC	4G10,0+2x1,5	18,70	140

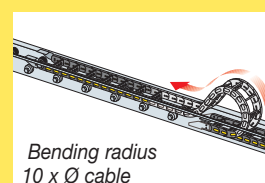
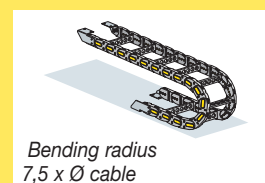


Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius* mm
6FX8002-5DA05	4355DA05xxxy	4350415LC	4G1,5+2x1,5	11,80	81
6FX8002-5DA28	4355DA28xxxy	4350415LC	4G1,5+2x1,5	11,80	81
6FX8002-5DA15	4355DA15xxxy	4350425LC	4G2,5+2x1,5	12,60	95
6FX8002-5DA38	4355DA38xxxy	4350425LC	4G2,5+2x1,5	12,60	95
6FX8002-5DA48	4355DA48xxxy	4350440LC	4G4,0+2x1,5	14,10	106
6FX8002-5DA58	4355DA58xxxy	4350460LC	4G6,0+2x1,5	16,00	120
6FX8002-5DA68	4355DA68xxxy	4354100LC	4G10,0+2x1,5	18,70	140



* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

** Complete the code by inserting the value of the cable length (xxyy). xxx=m; y=dm
Ex.: 0001 = 0,1 m; 0010 = 1 m; 0120 = 12 m; 1230 = 123 m; 1334 = 133,4 m



For further information please
consult Brevetti Stendalto's
Technical Office

Motor-Servocable + connectors in accordance to Siemens® Standard 6FX8.

PUR Jacket

BTC440



BTC440

Complying with UL and CSA for the
European and USA market

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm
6FX8002-2AD00	440PAD00xxxy	4400023	[3x(2x0,14)C+4x0,14+2x0,50]C	8,80
6FX8002-2AH00	440PAH00xxxy	4400002	4x2x0,38+4x0,50	8,90
6FX8002-2CA11	440PCA11xxxy	4400002	4x2x0,38+4x0,50	8,90
6FX8002-2CA15	440PCA15xxxy	4400023	[3x(2x0,14)C+4x0,14+2x0,50]C	8,80
6FX8002-2CA31	440PCA31xxxy	4400006	[3x(2x0,14)C+4x0,14+4x0,25+2x0,50]C	9,50
6FX8002-2CA51	440PCA51xxxy	4400023	[3x(2x0,14)C+4x0,14+2x0,50]C	8,80
6FX8002-2CA61	440PCA61xxxy	4400023	[3x(2x0,14)C+4x0,14+2x0,50]C	8,80
6FX8002-2CB51	440PCB51xxxy	4400002	4x2x0,38+4x0,50	8,90
6FX8002-2CC11	440PCC11xxxy	4400002	4x2x0,38+4x0,50	8,90
6FX8002-2CD01	440PCD01xxxy	4400002	4x2x0,38+4x0,50	8,90
6FX8002-2CF02	440PCF02xxxy	4400023	[3x(2x0,14)C+4x0,14+2x0,50]C	8,80
6FX8002-2CG00	440PCG00xxxy	4400002	4x2x0,38+4x0,50	8,90
6FX8002-2CH00	440PCH00xxxy	4400023	[3x(2x0,14)C+4x0,14+2x0,50]C	8,80
6FX8002-2EQ10	440PEQ10xxxy	4400006	[3x(2x0,14)C+4x0,14+4x0,25+2x0,50]C	9,50



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm
6FX8002-2AD04	440PAD04xxxy	4400023	[3x(2x0,14)C+4x0,14+2x0,50]C	8,80
6FX8002-2AH04	440PAH04xxxy	4400002	4x2x0,38+4x0,50	8,90
6FX8002-2CB54	440PCB54xxxy	4400002	4x2x0,38+4x0,50	8,90
6FX8002-2CA54	440PCA54xxxy	4400023	[3x(2x0,14)C+4x0,14+2x0,50]C	8,80
6FX8002-2CA34	440PCA34xxxy	4400006	[3x(2x0,14)C+4x0,14+4x0,25+2x0,50]C	9,50
6FX8002-2CF04	440PCF04xxxy	4400023	[3x(2x0,14)C+4x0,14+2x0,50]C	8,80
6FX8002-2EQ14	440PEQ14xxxy	4400006	[3x(2x0,14)C+4x0,14+4x0,25+2x0,50]C	9,50



Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section n x mm ²	Diameter Ø mm
6FX8002-2DC00	440PDC00xxxy	4400024	(2x2x0,15+2x0,38)C	7,50
6FX8002-2DC10	440PDC10xxxy	4400024	(2x2x0,15+2x0,38)C	7,50
6FX8002-2DC20	440PDC20xxxy	4400024	(2x2x0,15+2x0,38)C	7,50



For further information please
consult Brevetti Stendalto's
Technical Office

* self-supporting chains; bending radius for sliding chains = 10 x outer cable diameter

** Complete the code by inserting the value of the cable length (xxxy). xxx=m; y=dm
Ex.: 0001 = 0,1 m; 0010 = 1 m; 0120 = 12 m; 1230 = 123 m; 1334 = 133,4 m

Encoder, measuring system resolver cables

BC4400001 - BC4400020

Encoder cable

with PUR jacket page 42

BC4400018

Encoder cable

with PVC jacket page 43

BC4400002

Encoder cable

with PUR jacket page 44

BC4400004 - BC4400017

Measuring systems cable

with PUR jacket page 45

BC4400005

Measuring systems cable

with PUR jacket page 46

BC4400007 - BC4400008

Resolver cable, PVC jacket

page 47

BC4400009 - BC4400010

Multipair single and total shielded resolver cable, PVC jacket page 48

BC4400006 - BC4400016 - BC4400019

Resolver cable, PVC and PUR jacket

page 49

BC4400011 - BC4400012 - BC4400013 - BC4400014

Resolver cable, PUR jacket

page 50

BC4400015

Tachymeter cable, PUR jacket

page 51

BC4400023

Signal cable, PUR jacket

page 52

BC4400024 - BC4400025

Signal cable, PUR - PVC jacket

page 53

BC4400022

Signals connection cable, PUR jacket

page 54



Encoder cable with PUR jacket

BC440



BC4400001 BC4400020

Speed: 240 m/min
Acceleration: 20 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the
European and USA market

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4400001	4x2x0,25+2x1	8,80	90	74	110
4400020	4x2x0,25+2x0,50	8,50	90	70	104

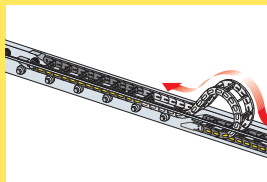
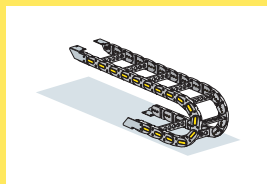


Technical data

Nominal voltage:	250 V
Testing voltage:	1500 V
Temperature range:	-30°C to + 80°C
Speed:	240 m/min
Acceleration:	20 m/s ²
Oil resistance:	VDE 0472 part 803/B, UL 1581, VDE 0282 10, HD22.10 S1
Homologation UL/CSA:	UL/AWM 80°C 300V - CSA AWM 75°C 300 V FT1

Construction

Conductor:	High-flexible class 5/6 complying with: VDE 0295, IEC 60228, CEI 20-29, NFC 32012
Insulation:	polyolefine
Core ident. :	brown/green, grey/pink, blue/purple, red/black, sect. 0,5/1 mm ² , white/brown
Core assembling:	special with soft strip
Jacket material:	PUR, colour orange RAL 2003
Shielding:	Tinned copper braid: > 85 %



For further information please
consult Brevetti Stendalto's
Technical Office

Encoder cable with PVC jacket

BC440



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4400018	4x2x0,38+4x0,50	8,90	110	75	115



BC4400018

Speed: 180 m/min
Acceleration: 6 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the
European and USA market

Very good oil resistant PVC
jacket

Technical data

Nominal voltage: 250 V

Testing voltage: 1500 V

Temperature range: -10°C to + 80°C

Speed: 180 m/min

Acceleration: 6 m/s²

Burning characteristics:

CEI EN 50265-2-1, DIN EN 50265-2-1, NFC 32070 C2,
IEC 60332.1.1

Flame resistance:

CEI 20-22/II, DIN EN 50266-2-5, NFC 32070 cat. C1 test 2,
IEC 60332.3.24 cat.C

Oil resistance:

VDE 0472 part 803/B, UL 1581, VDE 0282 10, HD22.10 S1

Homologation UL/CSA:

UL/AWM 80°C 300V - CSA AWM 75°C 300 V FT1

Construction

Conductor:

flexible class 5 complying with:
CEI 2029, VDE 0295, NFC 32012, IEC 60228

Insulation:

PP

Core ident. :

blue/purple, red/orange, brown/black, yellow/green
sect. 0,5 mm² yellow-blue-red-black

Core assembling:

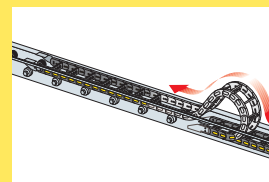
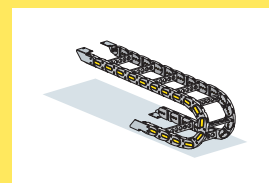
special with soft strip

Jacket material:

PVC, colour green RAL 6018

Shielding:

Tinned copper braid: > 85 %



For further information please
consult Brevetti Stendalto's
Technical Office

Encoder cable with PUR jacket

BC440



BC4400002

Speed: 240 m/min
Acceleration: 20 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the European and USA market

Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4400002	4x2x0,38+4x0,50	8,90	100	76	120



Technical data

Nominal voltage: 250 V

Testing voltage: 1500 V

Temperature range: -30°C to + 80°C

Speed: 240 m/min

Acceleration: 20 m/s²

Burning characteristics:

CEI EN 50265-2-1, DIN EN 50265-2-1, NFC 32070 C2,
IEC 60332.1.1

Oil resistance:

VDE 0472 part 803/B, UL 1581, VDE 0282 10, HD22.10 S1

Homologation UL/CSA:

UL/AWM 80°C 300V - CSA AWM 75°C 300 V FT1

Construction

Conductor:

High-flexible class 6 complying with:
CEI 2029, VDE 0295, NFC 32012, IEC 60228

Insulation:

PP

Core ident. :

blue/purple, red/orange, brown/black, yellow/green
sect. 0,5 mm² yellow-blue-red-black

Core assembling:

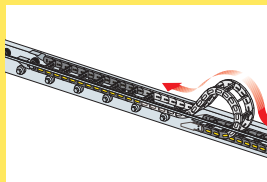
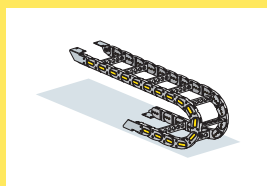
special with soft strip

Jacket material:

PUR, colour green RAL 6018

Shielding:

Tinned copper braid: > 85 %



For further information please
consult Brevetti Stendalto's
Technical Office

Measuring systems cable with PUR jacket

BC440



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4400004	[3x(2x0,14C)+2x(1C)]C	9,10	90	69	110
4400017	[3x(2x0,14C)+2x(0,50C)]C	8,40	90	64	102



BC4400004 BC4400017

Speed: 240 m/min
Acceleration: 20 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the
European and USA market

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C

Technical data

Nominal voltage: 250 V

Testing voltage: 1500 V

Temperature range: -30°C to + 80°C

Speed: 240 m/min

Acceleration: 20 m/s²

Burning characteristics:

IEC 60332.1.1

Oil resistance:

VDE 0472 part 803 A/B, UL 1581, VDE 0282 10, HD22.10 S1

Homologation UL/CSA:

UL-AWM 80°C 300 V - CSA AWM 75°C 300 V FT1

Construction

Conductor:

High-flexible class 5/6 complying with:

VDE 0295, IEC 60228, CEI 20-29, NFC 32012

Insulation:

TPE-E

Core ident. :

yellow/green, pink/grey, red/blue sect. 0,5/1 mm² white/brown,

Core assembling:

special

Jacket material:

PUR colour green

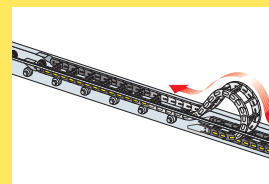
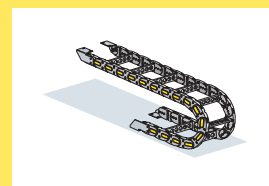
Shielding:

tinned copper spiral shield on each pairs, covering > 85%

overall: tinned copper braid covering > 85%

Capacity:

pair 0,14 mm² Cond./Cond. 140 pF/m, Cond./Shielded 235 pF/m



For further information please
consult Brevetti Stendalto's
Technical Office

Measuring systems cable with PUR jacket

BC440



BC4400005

Speed: 240 m/min
Acceleration: 20 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the
European and USA market

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4400005	4x2x0,14+4x0,50	8,50	90	50	93



Technical data

Nominal voltage: 250 V

Testing voltage: 1500 V

Temperature range: -30°C to + 80°C

Speed: 240 m/min

Acceleration: 20 m/s²

Burning characteristics:

IEC 60332.1.1

Oil resistance:

VDE 0472 part 803 A/B, UL 1581, VDE 0282 10, HD22.10 S1

Homologation UL/CSA:

UL-AWM 80°C 300 V - CSA AWM 75°C 300 V FT1

Construction

Conductor:

High-flexible class 6 complying with:
VDE 0295, IEC 60228, CEI 20-29, NFC 32012

Insulation:

TPE-E

Core ident. :

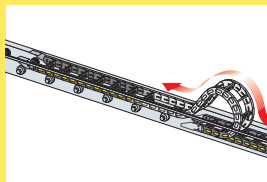
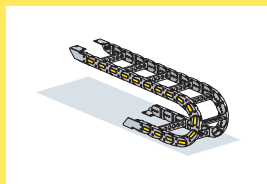
brown/green, yellow/purple, pink/grey, red/black sect. 0,5 mm² white/blue
white/green, brown/green

Jacket material:

PUR colour black

Shielding:

Tinned copper braid: > 85 %



For further information please
consult Brevetti Stendalto's
Technical Office

Resolver cable, PVC jacket

BC440



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4400007	4x(2x0,25C)	8,80	130	45	140
4400008	4x(2x0,35C)	11,72	170	55	160



BC4400007 BC4400008

Speed: 70 m/min
Acceleration: 3 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the
European and USA market

Technical data

Nominal voltage: 250 V

Testing voltage: 1500 V

Temperature range: -10°C to + 80°C

Speed: 70 m/min

Acceleration: 3 m/s²

Burning characteristics:

CEI EN 50265-2-1, DIN EN 50265-2-1, NFC 32070 C2, IEC 60332.1.1

Flame resistance:

CEI 20-22/II, DIN EN 50266-2-5, NFC 32070 cat. C1 test 2, IEC 60332.3.24 cat. C

Oil resistance:

VDE 0472 part 803/B, EN 60811.2.1, VDE 0282 10, HD22.10 S1,
CNOMO E.03.40.150 NFT 46.013

Homologation UL/CSA:

UL-AWM 80°C 300 V - CSA AWM 75°C 300 V FT1

Capacity:

Cond./Cond. 150 pF/m, Cond./Shielded 270 pF/m

Construction

Conductor:

flexible

Insulation:

PVC

Core ident. :

black/red; black/white; black/green; black/blue

Intermediate jacket:

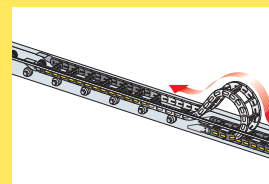
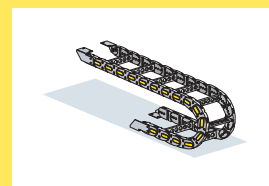
PVC on single shielded pairs

Shielding:

tinned copper braid on each pairs, covering > 85%

Jacket material:

special compound type PVC, colour green RAL 6018



For further information please
consult Brevetti Stendalto's
Technical Office

Multipair single and total shielded resolver cable, PVC jacket

BC440



BC4400009
BC4400010

Speed: 160 m/min
Acceleration: 6 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the European and USA market

Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius mm	Copper weight kg/km	Cable weight kg/km
4400009	[4x(2x0,25C)]C	9,90	115	80	160
4400010	[4x(2x0,35C)]C	10,30	120	95	180

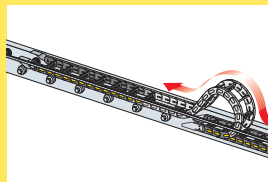
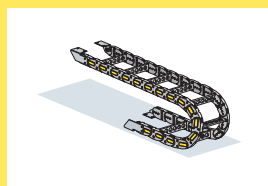


Technical data

Nominal voltage:	250 V
Testing voltage:	1500 V
Temperature range:	-10°C to + 80°C
Speed:	160 m/min
Acceleration:	6 m/s ²
Burning characteristics:	CEI EN 50265-2-1, DIN EN 50265-2-1, NFC 32070 C2, IEC 60332.1.1
Flame resistance:	CEI 20-22/II, DIN EN 50266-2-5, nfc 32070 C1 test 2, IEC 60332.3.24 cat C
Oil resistance:	VDE 0472 part 803/B, EN 60811.2.1, VDE 0282 10, HD22.10 S1, CNOMO E.03.40.150 NFT 46.013
Homologation UL/CSA:	UL-AWM 80°C 300 V - CSA AWM 75°C 300 V FT1
Capacity:	Cond./Cond. 150 pF/m, Cond./Shielded 270 pF/m

Construction

Conductor:	flexible
Insulation:	PVC
Core ident. :	black/red; black/white; black/green; black/blue
Pairs shielded:	Tinned copper braid: > 85 %
Intermediate jacket:	PVC on single pairs
Shielding:	Tinned copper braid: > 85 %
Jacket material:	special compound type PVC, colour green RAL 6018



For further information please
consult Brevetti Stendalto's
Technical Office

Resolver cable, PVC and PUR jacket

BC440



Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius mm	Copper weight kg/km	Cable weight kg/km	
4400006	[3x(2x0,14)C+ +4x0,14+4x0,25+2x0,50]C	9,50	100	75	139	PUR
4400016	[3x(2x0,14)C+ +4x0,14+2x0,50]C	8,50	100	63	123	PVC
4400019	[3x(2x0,14)C+4x0,14+ +4x0,25+2x0,50]C	9,50	100	75	136	PVC



BC4400006
BC4400016
BC4400019

Speed: 240 m/min - 180 m/min
Acceleration: 20 m/s² - 6 m/s²

Nominal voltage 250 V

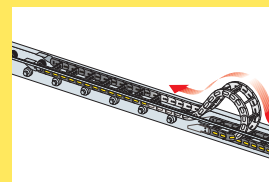
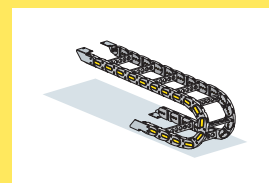
Complying with UL and CSA for the
European and USA market

Technical data

Nominal voltage:	250 V
Testing voltage:	1500 V
Temperature range:	4400006 = -30°C to + 80°C 4400016 and 4400019 = -10°C to + 80°C
Speed:	4400006 = 240 m/min 4400016 and 4400019 = 180 m/min
Acceleration:	4400006 = 20 m/s ² 4400016 and 4400019 = 6 m/s ²
Burning characteristics:	CEI EN 50265-2-1, DIN EN 50265-2-1, NFC 32070 C2, IEC 60332.1.1
Flame resistance:	CEI 20-22/II, DIN EN 50266-2-5, nfc 32070 C1 test 2, IEC 60332.3.24 cat C
Oil resistance:	4400006 = VDE 0472 part 803/B, UL 1581, VDE 0282 10, HD22.10 S1 4400016 and 4400019 = VDE 0472 part 803/B, EN 60811.2.1, VDE 0282 10, HD22.10 S1
Homologation UL/CSA:	UL-AWM 80°C 300 V - CSA AWM 75°C 300 V FT1
Capacity:	Cond./Cond. 100 pF/m, Cond./Shielded 168 pF/m

Construction

Conductor:	high-flexible
Insulation:	PP
Core ident. :	different colours
Core assembling:	special with soft strip
Jacket material:	4400006 = PUR, colour green RAL 6018 4400016 and 4400019 = PVC, colour green RAL 6018
Shielding:	Tinned copper spiral, on the pair from 0,14 mm ² , Tinned copper braid: > 90 %



For further information please
consult Brevetti Stendalto's
Technical Office

Resolver cable, PUR jacket

BC440



BC4400011
BC4400012
BC4400013
BC4400014

Speed: 240 m/min
Acceleration: 20 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the
European and USA market

Polyurethan jacket resistant to
hydrolysis, microbics and oils

Suitable for outdoor applications at
-30°C

Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius mm	Copper weight kg/km	Cable weight kg/km
4400014	[3x(2x0,25C)]C	9,05	90	72	120
4400011	[4x(2x0,25C)]C	9,90	100	86	154
4400012	[3x(2x0,35C)]C	9,40	95	76	145
4400013	[4x(2x0,35C)]C	10,40	105	98	170



Technical data

Nominal voltage: 250 V

Testing voltage: 1500 V

Temperature range: -30°C to + 80°C

Speed: 240 m/min

Acceleration: 20 m/s²

Burning characteristics:

IEC 60332.1.1

Oil resistance:

VDE 0472 part 803/B, UL 1581, VDE 0282 10, HD22.10 S1

Homologation UL/CSA:

UL-AWM 80°C 300 V - CSA AWM 75°C 300 V FT1

Capacity:

Cond./Cond. 100 pF/m, Cond./Shielded 168 pF/m

Construction

Conductor:

flexible

Insulation:

PP

Core ident. :

black/red; black/white; black/green; black/blue

Intermediate jacket:

PVC on single shielded pairs

Shielding:

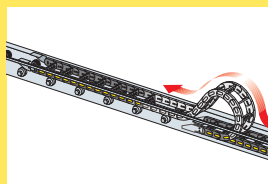
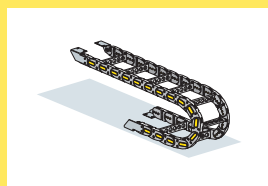
tinned copper braid on each pairs, covering > 85%

Jacket material:

PUR, colour green RAL 6018

Shielding:

Tinned copper braid: > 85 %



For further information please
consult Brevetti Stendalto's
Technical Office

Tachymeter cable, PUR jacket

BC440



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4400015	(9x0,50)C	8,70	90	75	165



Technical data

Nominal voltage: 250 V

Testing voltage: 1500 V

Temperature range: -30°C to + 80°C

Speed: 240 m/min

Acceleration: 20 m/s²

Burning characteristics:

IEC 60332.1.1

Oil resistance:

VDE 0472 part 803 A/B, UL 1581, VDE 0282 10, HD22.10 S1

Homologation UL/CSA:

UL-AWM 80°C 300 V - CSA AWM 75°C 300 V FT1

Construction

Conductor:

High-flexible class 6 complying with:

VDE 0295, IEC 60228, CEI 20-29, NFC 32012

Insulation:

polyolefine

Core ident. :

brown, green, yellow, pink, grey, red, black, blue, white

Core assembling:

special with soft strip

Jacket material:

PUR, orange RAL 2003

Shielding:

Tinned copper braid: > 85 %

BC4400015

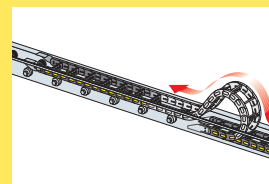
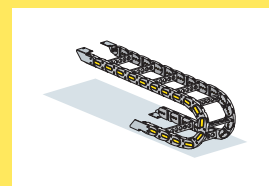
Speed: 240 m/min
Acceleration: 20 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the European and USA market

Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C



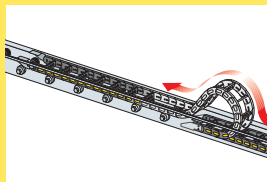
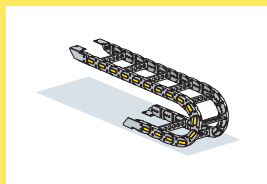
For further information please consult Brevetti Stendalto's Technical Office

BC4400023

Speed: 240 m/min
Acceleration: 20 m/s²

Nominal voltage 300 V

Complying with UL and CSA for the
European and USA market



Signal cable PUR jacket

BC440



Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius mm	Copper weight kg/km	Cable weight kg/km
4400023	[3x(2x0,14)C+ +4x0,14+2x0,50]C	8,8	88	66	100



Technical data

Nominal voltage:	30 V
Testing voltage:	500 V
Temperature range:	-30°C a + 80°C
Speed:	240 m/min
Acceleration:	20 m/s ²
Burning characteristics:	CEI EN 50265-2-1, DIN EN 50265-2-1, NFC 32070 C2, IEC 60332.1.1
Flame resistance:	CEI 20-22/II, DIN EN 50266-2-5, nfc 32070 C1 prova 2, IEC 60332.3.24 cat C
Oil resistance:	VDE 0472 part 803/B, EN 60811.2.1, VDE 0282 10, HD22.10 S1, CNOMO E.03.40.150 NFT 46.013
Homologation UL/CSA:	UL-AWM 80°C 300 V - CSA AWM 75°C 300 V FT1
Capacity:	Cond./Cond. 150 pF/m, Cond./Shielded 270 pF/m

Construction

Conductor:	High-flexible
Insulation:	PP
Core ident. :	grey/blue; white/yellow; white/black
Core assembling:	special with soft strip
Shielding:	Tinned copper braid: > 85 %
Jacket material:	PUR, colour green RAL 6018

For further information please
consult Brevetti Stendalto's
Technical Office

Signal cable PVC and PUR jacket

BC440



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4400024	(2x2x0,15+2x0,38)C	7,5	75	47	72
4400025	(2x2x0,15+2x0,38)C	7,2	75	47	72

PUR
PVC


BC4400024 BC4400025

Speed: 240 m/min - 180 m/min
Acceleration: 20 m/s² - 6 m/s²

Nominal voltage 30 V

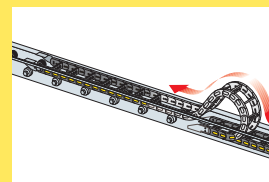
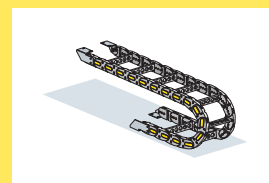
Complying with UL and CSA for the
European and USA market

Technical data

Nominal voltage:	30 V
Testing voltage:	500 V
Temperature range:	4400024 = -30°C a + 80°C 4400025 = -10°C a + 80°C
Speed:	4400024 = 240 m/min 4400025 = 180 m/min
Acceleration:	4400024 = 20 m/s ² 4400025 = 6 m/s ²
Burning characteristics:	CEI EN 50265-2-1, DIN EN 50265-2-1, NFC 32070 C2, IEC 60332.1.1
Flame resistance:	4400025 = CEI 20-22/II, DIN EN 50266-2-5, nfc 32070 C1 prova 2, IEC 60332.3.24 cat C
Oil resistance:	4400024 = VDE 0472 part 803/B, UL 1581, VDE 0282 10, HD22.10 S1 4400025 = VDE 0472 part 803/B, EN 60811.2.1, VDE 0282 10, HD22.10 S1 CNOMO E.03.40.150 NFT 46.013
Homologation UL/CSA:	UL-AWM 80°C 300 V - CSA AWM 75°C 300 V FT1
Capacity:	Cond./Cond. 100 pF/m, Cond./Shielded 168 pF/m

Construction

Conductor:	High-flexible
Insulation:	PP
Core ident. :	green/yellow pink/blue, red, black
Core assembling:	special with soft strip
Jacket material:	4400024 = PUR, colour green RAL 6018 4400025 = PVC, colour green RAL 6018
Shielding:	Tinned copper braid: > 85 %


For further information please
consult Brevetti Stendalto's
Technical Office

Signals connection cable

BC440



BC4400022

Speed: 240 m/min
Acceleration: 20 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the European and USA market

Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4400022	(8x2x0,18)C	7,70	90	55	135

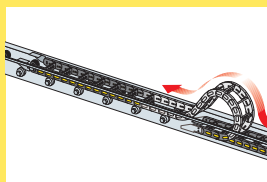
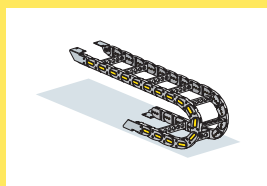


Technical data

Nominal voltage:	250 V
Testing voltage:	1500 V
Temperature range:	-30°C to + 80°C
Speed:	240 m/min
Acceleration:	20 m/s ²
Burning characteristics:	CEI EN 50265-2-1, DIN EN 50265-2-1, NFC 32070 C2, IEC 60332.1.1
Oil resistance:	VDE 0472 part 803 A/B, UL 1581, VDE 0282 10, HD22.10 S1
Homologation UL/CSA:	UL-AWM 80°C 300 V - CSA AWM 75°C 300 V FT1

Construction

Conductor:	High-flexible class 6 complying with: VDE 0295, IEC 60228, CEI 20-29, NFC 32012
Insulation:	PP
Core ident. :	white/yellow + white/green, white/red + white/orange, white/black + white/brown, grey + white, blue + purple, yellow + green, red + orange, black + brown
Core assembling:	special with soft strip
Jacket material:	PUR, green RAL 6018
Shielding:	Tinned copper braid: > 85 %



For further information please
consult Brevetti Stendalto's
Technical Office



BUS Cable

BC4500001 - BC4500002

Fieldbus Profibus connection cable PVC jacket

STATIC APPLICATION page 56

BC4500003 - BC4500017

Fieldbus Profibus connection cable PUR jacket

DYNAMIC APPLICATION page 57

BC4500004

Fieldbus Interbus connection cable PVC jacket

STATIC APPLICATION page 58

BC4500005

Fieldbus Interbus connection cable PUR jacket

DYNAMIC APPLICATION page 59

BC4500006 - BC4500008

Fieldbus DeviceNet connection cable PVC jacket

STATIC APPLICATION page 60

BC4500007 - BC4500014

Fieldbus DeviceNet connection cable PUR jacket

DYNAMIC APPLICATION page 61

BC4500009

100 Ohm patch 24 AWG CAT 5 S-FTP connection cable PUR jacket

DYNAMIC APPLICATION page 62

BC4500010 - BC4500013

Fieldbus Profibus connection cable PVC and PUR jacket

DYNAMIC APPLICATION page 63

BC4500011 - BC4500012 - BC4500015

Fieldbus CAN connection cable

DYNAMIC APPLICATION page 64

BC500

Fibre optic cable, LSZH jacket

DYNAMIC APPLICATION page 65

Fieldbus Profibus connection cable PVC jacket, STATIC APPLICATION

BC450



BC4500001
BC4500002

Impedance: 150 Ohm

Very good oil resistant PVC jacket

Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Type	Copper weight kg/km	Cable weight kg/km
4500001	1x2x0,64/2,55	7,95	standard	27	75
4500002	1x2x0,64/2,55	7,95	quick connection	27	77



Technical data

Temperature range: -5°C to + 80°C

Impedance: 150 Ohm

D.C. resistance : 57,5 Ohm/km

Isolation resistance: > 2500 MOhm.km

Attenuation:

9,6 KHz<2,5 db/km; 9,6 KHz<2,5 db/km; 4,0 MHz<22,0 db/km;
16,0 MHz<42,0 db/km

Burning characteristics:

IEC 60332.1.1

Normative references:

UL/CSA Listed; EN 50170; DIN 19245; DESINA

Construction

Conductor:

copper red 1x0,64 mm

Insulation:

Foam skin

Core ident. :

green, red

Shielding:

1° all/polyester;
2° Tinned copper braid > 65%

Jacket material:

PVC, colour purple RAL 4001



For further information please
consult Brevetti Stendalto's
Technical Office

Fieldbus Profibus connection cable PUR jacket, DYNAMIC APPLICATION

BC450



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4500003	1x2x0,64/2,55	7,95	80	27	75
4500017	1x2x0,64/2,55	9,80	98	27	90



BC4500003

BC4500017

Speed: 180 m/min
Acceleration: 7 m/s²

Impedance: 150 Ohm

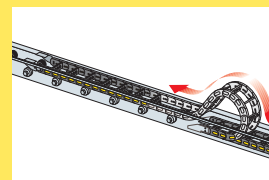
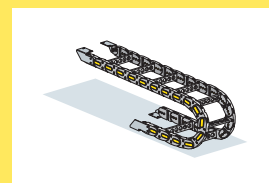
Oil resistant PUR jacket

Technical data

Temperature range:	-30°C to + 80°C	
Speed:	180 m/min	
Acceleration:	7 m/s ²	
Impedance:	150 Ohm	
D.C. resistance :	76 Ohm/km	for 4500017: 78,4 Ohm/km
Isolation resistance:	> 2500 MOhm.km	for 4500017: 5000 MOhm.km
Attenuation:	9,6 KHz<3,0 db/km; 38,4 KHz<4,5 db/km; 4,0 MHz<25,0 db/km; 16,0 MHz<49,0 db/km	
Burning characteristics:	IEC 60332.1.1	
Normative references:	UL/CSA Listed; EN 50170; DIN 19245; DESINA	

Construction

Conductor:	flexible
Insulation:	Foam skin
Core ident. :	green, red
Shielding:	1° all/polyester; 2° Tinned copper braid > 65%
Jacket material:	PUR, colour purple RAL 4001



For further information please
consult Brevetti Stendalto's
Technical Office

Fieldbus Interbus connection cable PVC jacket, STATIC APPLICATION

BC450



BC4500004

Impedance: 100 Ohm

Very good oil resistant PVC jacket

Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Type	Copper weight kg/km	Cable weight kg/km
4500004	3x2x0,22	7,10	static application	30	55



Technical data

Temperature range: -5°C to + 80°C

Impedance: 100 Ohm +/- 15 Ohm

D.C. resistance : 96 Ohm/km

Isolation resistance: > 5000 MOhm.km

Attenuation:

0,256 MHz =1,5 db/100m; 0,722 MHz =2,4 db/100m; 1 MHz =2,7 db/100m;
4 MHz =5,2 db/100m; 10 MHz =8,4 db/100m; 16 MHz =11,2 db/100m;
20 MHz =11,9 db/100m

Near-end crosstalk:

0,722 MHz =61 db/100m; 1 MHz =59 db/100m; 2 MHz =55 db/100m;
4 MHz=50 db/100m; 8 MHz =46 db/100m; 10 MHz =44 db/100m;
16 MHz =41 db/100m; 20 MHz =40 db/100m

Capacity: < 60 nF/km

Propagation velocity: 66%

Burning characteristics:

IEC 60332.1.1

Normative references:

UL/CSA Listed; DESINA

Construction

Conductor:

flexible

Insulation:

polyolefine

Core ident. :

DIN 47100 (see page 54)

Shielding:

Tinned copper braid > 80%

Jacket material:

special compound type PVC, colour purple RAL 4001



For further information please
consult Brevetti Stendalto's
Technical Office

Fieldbus Interbus connection cable PUR jacket, DYNAMIC APPLICATION

BC450



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4500005	3x2x0,22	8,00	80	30	65



BC4500005

Speed: 180 m/min
Acceleration: 7 m/s²

Impedance: 100 Ohm

Oil resistant PUR jacket

Technical data

Temperature range: -30°C to + 80°C

Speed: 180 m/min

Acceleration: 7 m/s²

Impedance: 100 Ohm +/- 15 Ohm

D.C. resistance : 96 Ohm/km

Isolation resistance: > 5000 MOhm.km

Attenuation:

0,256 MHz =1,5 db/100m; 0,722 MHz =2,4 db/100m; 1 MHz =2,7 db/100m;
4 MHz =5,2 db/100m; 10 MHz =8,4 db/100m; 16 MHz =11,2 db/100m;
20 MHz =11,9 db/100m

Near-end crosstalk:

0,722 MHz =61 db/100m; 1 MHz =59 db/100m; 2 MHz =55 db/100m;
4 MHz =50 db/100m; 8 MHz =46 db/100m; 10 MHz =44 db/100m;
16 MHz =41 db/100m; 20 MHz =40 db/100m;

Capacity: < 60 nF/km

Propagation velocity: 66%

Burning characteristics:

IEC 60332.1.1

Normative references:

UL/CSA Listed; DESINA

Construction

Conductor:

high-flexible

Insulation:

polyolefine

Core ident. :

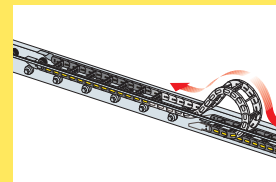
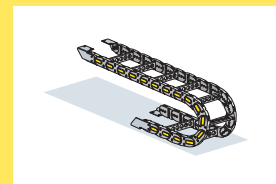
DIN 47100 (see page 54)

Shielding:

Tinned copper braid > 80%

Jacket material:

PUR, colour purple RAL 4001



For further information please
consult Brevetti Stendalto's
Technical Office

Fieldbus DeviceNet connection cable PVC jacket, STATIC APPLICATION

BC450



BC4500006
BC4500008

Impedance: 120 Ohm

Very good oil resistant PVC jacket

Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Type	Copper weight kg/km	Cable weight kg/km
4500006	1x2x22 AWG+ +1x2x24 AWG	7,10	drop cable	28	58
4500008	1x2x15 AWG+ +1x2x18 AWG	11,30	drop cable	88	170



Technical data

Temperature range: -5°C to + 80°C

Impedance: 120 Ohm

D.C. resistance :

78,4 Ohm/km (AWG 24)/ 51,6 Ohm/km (AWG 22); 21,0 Ohm/km (AWG 18)/10,4 Ohm/km (AWG 15)

Isolation resistance:

AWG 24/22 > 5000 MOhm.km; AWG 18/15 > 100 MOhm.km

Data pair attenuation:

AWG 24 < 2,00 DB/100 m 1MHz; AWG 18 < 1,31 db/100 m 1MHz

Propagation velocity pair signal: 80%

Capacity pair signal: < 39 pF/m

Propagation velocity: 66%

Burning characteristics:

IEC 60332.1.1

Normative references:

UL/CSA Listed; DESINA

Construction

Conductor:

flexible

Insulation:

signal: foam skin

power: PVC

Core ident. :

signal: blue, white

power: red, black

Shielding:

1° all/polyester

2° Tinned copper braid > 70%

Jacket material:

special compound type PVC, colour purple RAL 4001



For further information please
consult Brevetti Stendalto's
Technical Office

Fieldbus DeviceNet connection cable PUR jacket, DYNAMIC APPLICATION

BC450



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4500007	1x2x22 AWG+ +1x2x24 AWG	7,10	70	28	60
4500014	1x2x15 AWG+ +1x2x18 AWG	11,70	120	88	174



BC4500007 BC4500014

Speed: 180 m/min
Acceleration: 7 m/s²

Impedance: 120 Ohm

Oil resistant PUR jacket

Technical data

Temperature range: -30°C to + 80°C

Speed: 180 m/min

Acceleration: 7 m/s²

Impedance: 120 Ohm

D.C. resistance :

78,4 Ohm/km (AWG 24)/ 51,6 Ohm/km (AWG 22); 21,0 Ohm/km (AWG 18)/10,4 Ohm/km (AWG 15)

Isolation resistance:

AWG 24/22 > 5000 MOhm.km; AWG 18/15 > 100 MOhm.km

Data pair attenuation:

AWG 24 < 2,00 DB/100 m 1MHz; AWG 18 < 1,31 db/100 m 1MHz

Capacity pair signal: < 39 nF/km

Propagation velocity pair signal: 80 %

Burning characteristics:

IEC 60332.1.1

Normative references:

UL/CSA Listed; DESINA

Construction

Conductor:

flexible

Insulation:

signal: foam skin

power: PE

Core ident. :

signal: blue, white

power: red, black

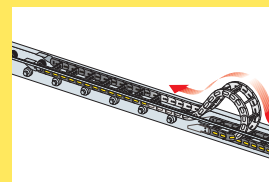
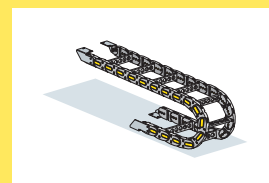
Shielding:

1° all/polyester

2° Tinned copper braid > 70%

Jacket material:

PUR, colour purple RAL 4001



For further information please
consult Brevetti Stendalto's
Technical Office

Ethernet cable 100 Ohm 24 AWG CAT 5E S-FTP connection cable PUR jacket, DYN. APP.

BC450



BC4500021
BC4500022

Speed: 240 m/min
Acceleration: 20 m/s²

Impedance: 100 Ohm

Oil resistant PUR jacket

Transmission speed 100 Mbps

Part No.	Cat.	of cores x section n x mm ²	Diameter Ø mm	Bending radius mm	Copper weight kg/km	Cable weight kg/km
4500021	5E	2x2x24 AWG	6,00	90	20,0	41
4500022	5E	4x2x24 AWG	7,10	106	33,7	60



Technical data

Temperature range: -30°C to + 80°C

Speed: 240 m/min

Acceleration: 20 m/s²

Impedance: 100 Ohm

Attenuation:

1MHz = 3,2 db/100 m; 4 MHz = 6,5 db/100 m; 10 MHz = 9,9 db/100 m
20 MHz = 13,8 db/100 m

Near-end crosstalk:

1MHz = 62 db; 4 MHz = 53 db; 10 MHz = 47 db; : 20 MHz = 42db

Burning characteristics:

IEC 60332.1.1

Normative references:

UL/CSA Listed; DESINA

Construction

Conductor:

high-flexible

Insulation:

foam skin

Core ident. :

white/grey; blue/pink; orange/yellow; brown/purple

Core assembling:

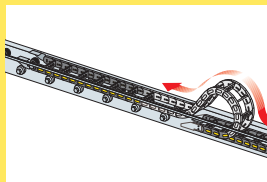
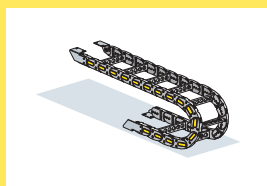
special

Shielding :

all/polyester > 100% + Tinned copper braid > 75%

Jacket material:

PUR, colour green RAL 6018



For further information please
consult Brevetti Stendalto's
Technical Office

Fieldbus Profibus connection cable PUR jacket, DYNAMIC APPLICATION

BC450



Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm ²	mm	mm	kg/km	kg/km
4500010	1x2x0,64/2,55 +3G0,75	9,50	100	50	120
4500013	1x2x0,64/2,55 +3G0,75	9,70	100	50	125



BC4500010 BC4500013

Speed:
for 4500010 = 240 m/min
for 4500013 = 60 m/min

Acceleration:
for 4500010 = 20 m/s²
for 4500013 = 2 m/s²

Impedance: 150 Ohm

Technical data

Temperature range: -30°C to + 80°C

Speed: 4500010 = 240 m/min
4500013 = 60 m/min

Acceleration: 4500010 = 20 m/s²
4500013 = 2 m/s²

Impedance: 150 Ohm

D.C. pair resistance : 76 Ohm/km

Isolation pair resistance : > 2500 MOhm.km

Data pair attenuation:

9,6 KHz < 3,0 db/km; 38,4 KHz < 4,5 db/km; 4,0 KHz < 25,0 db/km;
16,0 KHz < 49,0 db/km

Burning characteristics:

IEC 60332.1.1

Normative references:

UL/CSA Listed; DESINA

Construction

Conductor:

flexible

Insulation:

signal: foam skin

power: PP

Core ident. :

signal: green, red

power: blue, black e G/Y

Core assembling:

special

Shielding :

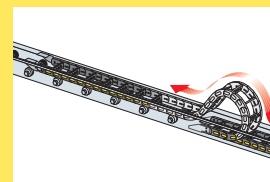
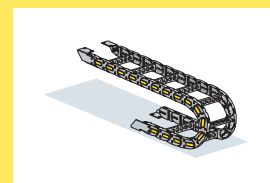
1° all/polyester

2° Tinned copper braid > 65%

Jacket material:

per 4500010 = PUR, colour purple RAL 4001

per 4500013 = special compound type PVC, colour purple RAL 4001



For further information please
consult Brevetti Stendalto's
Technical Office

Fieldbus CAN connection cable DYNAMIC APPLICATION

BC450



BC4500011
BC4500012
BC4500015

Speed: 240 m/min
Acceleration: 20 m/s²

Impedance: 120 Ohm

Oil resistant PUR jacket

Part No.	No. of cores x section n x mm ²	Diameter Ø mm	Bending radius mm	Copper weight kg/km	Cable weight kg/km
4500011	1x2x0,34+2x0,5	9,1	90	53	110
4500012	2x2x0,34	9,6	100	52	68
4500015	1x2x0,5	7,8	78	42	65



Technical data

Temperature range: -30°C to + 80°C

Speed: 240 m/min

Acceleration: 20 m/s²

Impedance: 120 Ohm

Data pair attenuation:

1MHz = 1,3 db/km; 5 MHz = 3,1 db/km; 10 MHz = 4,3 db/km;
20 MHz = 6,4 db/km

Capacity:

< 60 nF/km

Burning characteristics:

IEC 60332.1.1

Normative references:

UL/CSA Listed; DESINA

Construction

Conductor:

high-flexible

Insulation:

signal: polyolefine

power: PP

Core ident. :

signal DIN 47100

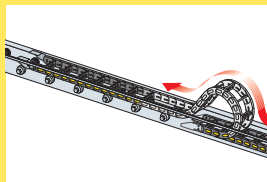
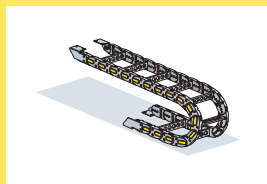
power: red, black

Shielding :

Tinned copper braid > 85%

Jacket material:

PUR, colour purple RAL 4001

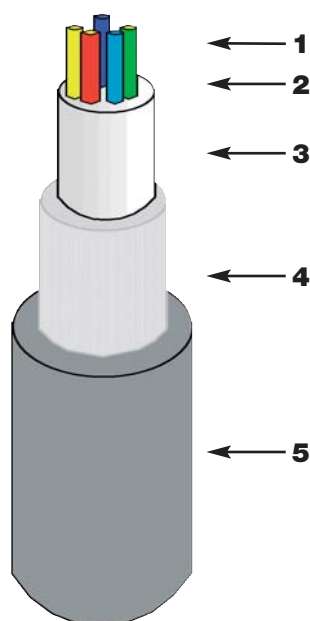


For further information please
consult Brevetti Stendalto's
Technical Office

Fibre optic cable, LSZH jacket DYNAMIC APPLICATION

BC500

Part No.	N.di fibre	Ø Core Ø Cladding	Diameter Ø	Bending radius	Cable weight
		µm	mm	mm	kg/km
5000662,5/125	6	62,5/125	8,5	80	75
5000862,5/125	8	62,5/125	8,5	80	75
5001262,5/125	12	62,5/125	8,5	80	75
5002462,5/125	24	62,5/125	10,5	100	100
5000650/125	6	50/125	8,5	80	75
5001250/125	12	50/125	8,5	80	75
5002450/125	24	50/125	10,5	100	100



Construction

- 1 - Fibre Optic
- 2 - Primary coating
- 3 - Central loose tube PBT jelly
- 4 - Antirodent dielectric armouring
- 5 - Outer sheath LSZH compound

Technical data

Temperature range:
from -20°C to +60°C

Static applications:
from -40°C to +80°C

Burning characteristics:
IEC 60332.1
VDE 0472-804 B

Attenuation:

50/125 µm:	@850 nm:	2,8 dB/km
	@1300 nm:	1,0 dB/km
62,5/125 µm:	@850 nm:	3,5 dB/km
	@1300 nm:	1,0 dB/km

Bandwidth:

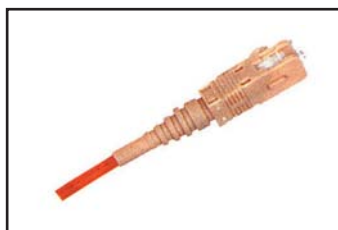
50/125 µm:	@850 nm:	400 MHz x km
	@1300 nm:	800 MHz x km
62,5/125 µm:	@850 nm:	160 MHz x km
	@1300 nm:	500 MHz x km

Connectors

Type ST



Type SC



Type FC



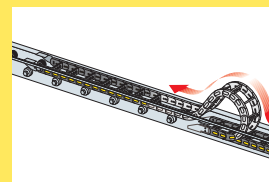
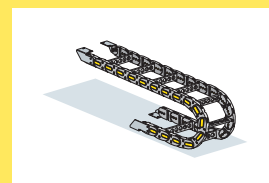
Type SMA



BC500

Speed: 180 m/min

Acceleration: 10 m/s²



For further information please
consult Brevetti Stendalto's
Technical Office

Colour tables

DIN 47100 Multipair cables

N°	Conductor A	Conductor B
1	White	Brown
2	Green	Yellow
3	Grey	Pink
4	Blue	Red
5	Black	Purple
6	Grey/Pink	Red/Blue
7	White/Green	Brown/Green
8	White/Yellow	Yellow/Brown
9	White/Grey	Grey/Brown
10	White/Pink	Pink/Brown
11	White/Blue	Brown/Blue
12	White/Red	Brown/Red
13	White/Black	Brown/Black
14	Grey/Green	Yellow/Grey
15	Pink/Green	Yellow/Pink
16	Green/Blue	Yellow/Blue
17	Green/Red	Yellow/Red
18	Green/Black	Yellow/Black
19	Grey/Blue	Pink/Blue
20	Grey/Red	Pink/Red
21	Grey/Black	Pink/Black
22	Blue/Black	Red/Black

DIN 47100 Multi conductor cables

N°	Colour conductor	N°	Colour conductor
1	White	23	White/Red
2	Brown	24	Brown/Red
3	Green	25	White/Black
4	Yellow	26	Brown/Black
5	Grey	27	Grey/Green
6	Pink	28	Yellow/Grey
7	Blue	29	Pink/Green
8	Red	30	Yellow/Pink
9	Black	31	Green/Blue
10	Purple	32	Yellow/Blue
11	Grey/Pink	33	Green/Red
12	Red/Blue	34	Yellow/Red
13	White/Green	35	Green/Black
14	Brown/Green	36	Yellow/Black
15	White/Yellow	37	Grey/Blue
16	Yellow/Brown	38	Pink/Blue
17	White/Grey	39	Grey/Red
18	Grey/Brown	40	Pink/Red
19	White/Pink	41	Grey/Black
20	Pink/Brown	42	Pink/Black
21	White/Blue	43	Blue/Black
22	Brown/Blue	44	Red/Black

Conversion table for AWG/mm²

AWG	Section mm²	Diameter mm	D.C. resistance 20°C Ω	AWG	Section mm²	Diameter mm	D.C. resistance 20°C Ω
44	0,0020	0,050	8498	20	0,519	0,813	33,2
43	0,0025	0,055	7021	19	0,653	0,912	26,4
42	0,0032	0,063	5446	18	0,823	1,02	21,0
41	0,0039	0,071	4330	17	1,04	1,15	16,6
40	0,0049	0,079	3540	16	1,31	1,29	13,2
39	0,0062	0,089	2780	15	1,65	1,45	10,4
38	0,0081	0,102	2130	14	2,08	1,63	8,28
37	0,0103	0,114	1680	13	2,63	1,83	6,56
36	0,0127	0,127	1360	12	3,31	2,05	5,21
35	0,0159	0,142	1080	11	4,17	2,30	4,14
34	0,0201	0,160	857	10	5,26	2,588	3,277
33	0,0255	0,180	675	9	6,63	2,906	2,600
32	0,0324	0,203	532	8	8,37	3,264	2,061
31	0,0401	0,226	430	7	10,55	3,655	1,634
30	0,0507	0,254	340	6	13,30	4,115	1,296
29	0,0649	0,287	266	5	16,77	4,620	1,028
28	0,0806	0,320	214	4	21,15	5,189	0,8152
27	0,102	0,361	169	3	26,67	5,287	0,6466
26	0,128	0,404	135	2	33,62	6,543	0,5128
25	0,162	0,455	106	1	42,41	7,348	0,4065
24	0,205	0,511	84,2	1/0	53,49	8,252	0,3223
23	0,259	0,574	66,6	2/0	67,43	9,266	0,2557
22	0,324	0,643	53,2	3/0	85,01	10,40	0,2028
21	0,411	0,724	41,9	4/0	107,22	11,68	0,1608

Technical notes

Construction of the bare and tinned copper conductors according to VDE 0295 IEC 60228, HD 383

Standard constructions according to VDE 0295 in compliance IEC 228 for single wires and multicore cables

Section mm ²	Class 2 Column 1	Class 5 Column 2	Class 6 Column 4	Class 6 Column 5	Class 6 Column 6
0,05					14x0,07
0,09				7x0,124	24x0,07
0,14		18x0,10	18x0,10	18x0,10	36x0,07
0,25		14x0,15	32x0,10	32x0,10	65x0,07
0,34		19x0,15	42x0,10	42x0,10	88x0,07
0,38		12x0,20	21x0,15	48x0,10	100x0,07
0,50	7x0,30	16x0,20	28x0,15	64x0,10	131x0,07
0,75	7x0,37	24x0,20	42x0,15	96x0,10	195x0,07
1,00	7x0,43	32x0,20	56x0,15	128x0,10	260x0,07
1,50	7x0,52	30x0,25	84x0,15	192x0,10	392x0,07
2,50	7x0,67	50x0,25	140x0,15	320x0,10	651x0,07
4,00	7x0,85	56x0,30	224x0,15	512x0,10	1040x0,07
6,00	7x1,05	84x0,30	192x0,20	768x0,10	1560x0,07
10,00	7x1,35	80x0,40	320x0,20	1280x0,10	2600x0,07
16,00	7x1,70	128x0,40	512x0,20	2048x0,10	4116x0,07
25,00	7x2,13	200x0,40	800x0,20	3200x0,10	6370x0,07
35,00	7x2,52	280x0,40	1120x0,20	4410x0,10	9100x0,07
50,00	19x1,83	400x0,40	705x0,30		
70,00	19x2,17	356x0,50	990x0,30		
95,00	19x2,52	485x0,50	1340x0,30		
120,00	37x2,03	614x0,50	1690x0,30		
150,00	37x2,27	765x0,50	2123x0,30		
185,00	37x2,52	944x0,50	1470x0,40		
240,00	61x2,24	1225x0,50	1905x0,40		
300,00	61x2,89	1530x0,50	2385x0,40		
400,00	61x3,23	2034x0,50			
500,00	61x2,37	1768x0,60			
630,00	61x2,37	2228x0,60			

Note: the number stands in column 3÷6 is indicative only.

The specifications specify the maximum diameter of strands and the maximum value of resistance for each section.

Technical notes

Conductor resistance according to VDE 0295 and IEC 228

Conductor resistance according to VDE 0295 and IEC 228
Wires and cables with stranding construction class 5

Nominal cross section mm ²	Ø of single wires	Conductor resistance at 20°C	
		Bare single wires	Metal sheathed single wires
0,5	0,21	39,0	40,1
0,75	0,21	26,0	26,7
1	0,21	19,5	20,0
1,5	0,26	13,3	13,7
2,5	0,26	7,98	8,21
4	0,31	4,95	5,08
6	0,31	3,30	3,39
10	0,41	1,91	1,95
16	0,41	1,21	1,24
25	0,41	0,780	0,795
35	0,41	0,554	0,565
50	0,41	0,388	0,393
70	0,51	0,272	0,277
95	0,51	0,206	0,210
120	0,51	0,161	0,184
150	0,51	0,129	0,132
185	0,51	0,106	0,108
240	0,51	0,0801	0,0817
300	0,51	0,0841	0,0654
400	0,51	0,0486	0,0495
500	0,61	0,0384	0,0391
630	0,61	0,0287	0,0292

Conductor resistance according to VDE 0295 and IEC 228
Wires and cables with stranding construction class 5

Nominal cross section mm ²	Ø of single wires	Conductor resistance at 20°C	
		Bare single wires	Metal sheathed single wires
0,5	0,16	39,0	40,1
0,75	0,16	26,0	26,7
1	0,16	19,5	20,0
1,5	0,16	13,3	13,7
2,5	0,16	7,98	8,21
4	0,16	4,95	5,08
6	0,21	3,30	3,39
10	0,21	1,91	1,95
16	0,21	1,21	1,24
25	0,21	0,780	0,795
35	0,21	0,554	0,565
50	0,31	0,388	0,393
70	0,31	0,272	0,277
95	0,31	0,206	0,210
120	0,31	0,161	0,184
150	0,31	0,129	0,132
185	0,41	0,106	0,108
240	0,41	0,0801	0,0817
300	0,41	0,0841	0,0654

Technical notes

Current carrying capacity and reduction factors

Current carrying capacity for cables up to 1000 V

Nominal section mm ²	Single core cable Capacity A	Multiconductor cables Capacity A
0,08	1,5	1
0,14	3	2
0,25	5	4
0,34	8	6
0,50	12	9
0,75	15	12
1,00	19	15
1,50	24	18
2,50	32	26
4,00	42	34
6,00	54	44
10,00	73	61
16,00	98	82
25,00	129	108
35,00	158	135
50,00	198	168
70,00	245	207
95,00	292	250
120,00	344	292
150,00	391	335
185,00	448	382
240,00	528	453
300,00	608	523
400,00	726	-
500,00	830	-

DIN VDE 0298-4, 2003-08
Table 11/column 2

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Table 11/column 5

Conversion factors for multicore cables with nominal section 10 up to mm²

No. cores	Factors
5	0,75
7	0,65
10	0,55
14	0,50
19	0,45
24	0,40
40	0,35
81	0,30

Conversion factors for deviating ambient temperature

Ambient temperature °C	Factors
10	1,22
20	1,12
30	1,00
40	0,87
45	0,79
50	0,71
55	0,61
60	0,50
65	0,35

Conversion factors for multicore cables with nominal section 10 up to mm²

Conversion factors for the accumulation on walls, in tubes and conduits	
No. cores	Factors
2	1,00
3	0,80
4	0,70
5	0,65
6	0,60
7	0,57
8	0,54
9	0,52
10	0,50
11	0,48
12	0,45
13	0,43
14	0,41
15	0,39
16	0,38

Thermal influence

Cables have to be chosen, layed or installed in a way that the expected current heat emission is not impeded and thus doesn't create any fire risk for adjacent materials.

The limit temperatures of the individual conductor types are shown in the catalogue.

The indicated values shall not be exceeded by the combined effects of internal current heat and environmental conditions considered the max temperature rating of the insulation compound.

For further information please consult Brevetti Stendalto's Technical Office

Installation

For correct installation of cables in the cable chain, it is important to follow the guidelines listed below:

1 - The cables have to be installed and unrolled from the drum carefully to avoid damage. It is therefore important to follow the indications in Figure.1. The coil should not be unrolled from the centre, but it should be placed on a support or on a turning plane and then be unrolled starting from the external ends.

2 - Check the minimum allowed bending radius of the chosen cable and compare it with the bending radius of the chain. For a correct installation, the last mentioned should be larger compared to the bending radius of the cable.

3 - There must be at least 10%-20% free space between the cable diameters and the internal dimensions of the chain. Install the cables/hoses symmetrically in the chain with the larger and heavier towards the outside and the smaller and lighter in the centre. Further, it is necessary to separate the cables using the separators, available for all the chains, or the split cross pieces with holes done in the appropriate sizes according to the external diameter of the cable. (Figure 2) It is important, when having high velocities and accelerations, to avoid the superimposing of the cables. Avoid contact between the different cables and hoses internally in the chain.

4 - The cables/hoses must be placed and installed in such a way so that they can move freely side ways during the movement of the chain and also so that in the bending curve they do not cause any tension or traction on the cable chain.

5 - The cables must be installed and fixed using the appropriate accessories at both extremities of the chain.

6 - Verify the installation of the cables in the chains with Brevetti Stendalto's technical office or request a personalised project by filling in the appropriate module

Figure 1

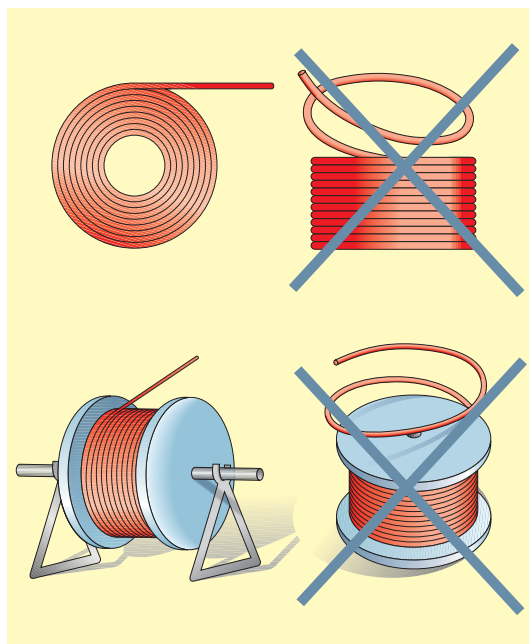
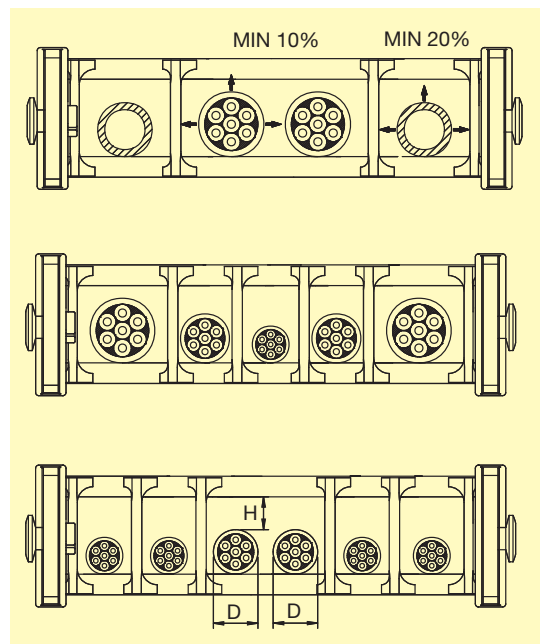


Figure 2



Zinc-plated Steel cable clamps

C-profile rail

Part No.	Length
6000002	Standard 1000 mm; available on request with different length

Single clamp in zinc-plated steel with 1 pressure cradle and 1 counter pressure cradle

Part No.	Diameter mm	L	H max~
6000614C	06-14	20	64
6001418C	14-18	22	73
6001822C	18-22	26	77
6002226C	22-26	30	81
6002630C	26-30	34	85
6003034C	30-34	38	90
6003438C	34-38	43	100
6003842C	38-42	47	113
6004246C	42-46	52	120
6004650C	46-50	58	130
6005054C	50-54	68	139
6005458C	54-58	75	147
6005864C	58-64	82	155
6006470C	64-70	90	163

Double clamp in zinc-plated steel set complete with 1 pressure cradle, 1 double sided cradle and 1 counter pressure cradle

Part No.	Diameter mm	L	H max~
6020608C	06-08	20	64
6020810C	08-10	20	88
6021014C	10-14	20	88
6021418C	14-18	21	94
6021822C	18-22	26	110
6022226C	22-26	30	121
6022630C	26-30	34	128
6023034C	30-34	38	134
6023438C	34-38	43	156
6023842C	38-42	47	165

Triple clamp in zinc-plated steel set complete with 1 pressure cradle, with plastic insert, 2 double sided cradles and 1 counter pressure cradle

Part No.	Diameter mm	L	H max~
6031012C	10-12	16	87
6031214C	12-14	17	97
6031416C	14-16	19	102
6031618C	16-18	22	112
6031820C	18-20	24	116
6032022C	20-22	26	129
6032224C	22-24	28	133
6032426C	24-26	31	143
6032628C	26-28	33	150
6032830C	28-30	35	158

Counter pressure cradle

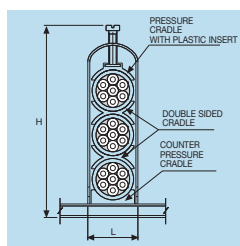
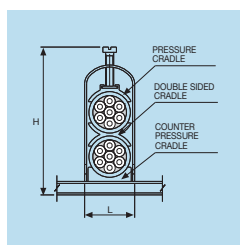
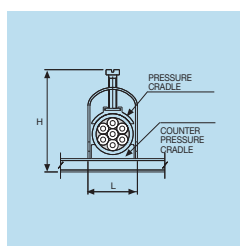
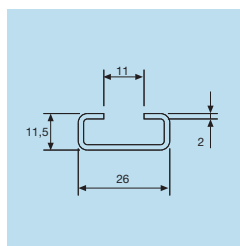
Part No.	Diameter mm	Part No.	Diameter mm
6100612	06-12	6103842	38-42
6101214	12-14	6104246	42-46
6101618	14-18	6104650	46-50
6101822	18-22	6105054	50-54
6102226	22-26	6105458	54-58
6102630	26-30	6105864	58-64
6103034	30-34	6106470	64-70
6103438	34-38		

Doublesided cradle

Part No.	Diameter mm	Part No.	Diameter mm
6201012	10-12	6202426	22-26
6201214	12-14	6202830	26-30
6201416	14-16	6203034	30-34
6201618	16-18	6203438	34-38
6201822	18-22	6203842	38-42

Plastic insert for triple clamp

Part No.	Diameter mm	Part No.	Diameter mm
6300612X	10-12	6201822X	20-24
6301214X	12-14	6202226X	24-26
6301416X	14-16	6202630X	26-30
6301618X	16-20		



Zinc-plated Steel Cable Clamps

The steel cable clamps connect the cable to the extremities of the chain.

The plastic counter pressure cradles with the integrated screw tighten and fix the cable.

The smooth surface and the design of the cradles guarantee high stability and avoid any damage to the cables

Special versions are available on request.

Fixing set is composed by the following parts:

- Steel clamps with pressure cradle
- Counter pressure cradle
- Doublesided cradle for double and triple clamps
- Steel mounting rails

Also available in Stainless Steel

Consult Brevetti Stendalto's Technical Office



Nylon tie-wraps

As an alternative to steel cable clamps, Brevetti Stendalto offers the possibility to mount on the end-brackets nylon tie-wraps, which allow a more flexible cable fixing. For further information on this system, please consult our cable chain catalogue.

For further information please consult Brevetti Stendalto's Technical Office



FLEXIBLE CABLES FOR CABLE CHAINS

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