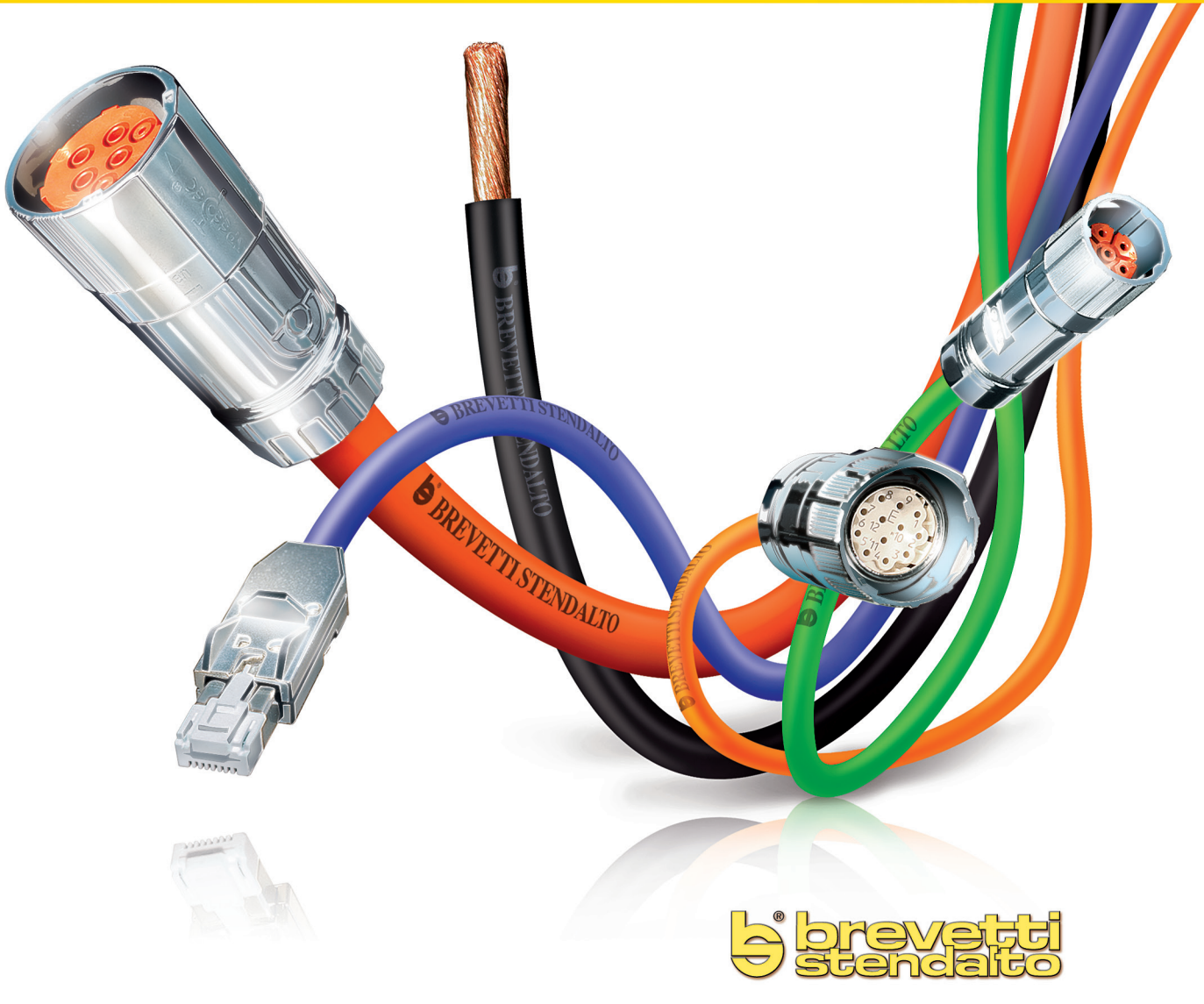
CATALOGUE 2016.01

FLEXIBLE CABLES FOR CABLE CHAINS

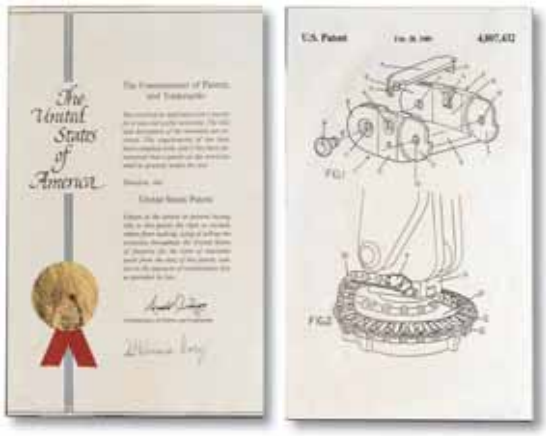


brevetti stendalto

Summary

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 it product range. Nowadays the cables chains are offered together with our range of Highly flexible as a guaranteed package solution for all kinds 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 CONTROL CABLES							
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
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
MULTI PAIR CONTROL CABLES							
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							
BC423LC	PVC	TPO	✔	4	1,5 - 50	10	15
BC423ALC	PVC	TPO	✔	6	1,5 - 50	10	15
BC421LC	PUR	TPO	✔	4	1,5 - 50	7,5	10
BC430LC	PUR	TPO	✔	4	0,75 - 50	7,5	10
BC435LC	PUR	TPO	✔	4	1,5 - 50	7,5	10
POWER CABLES							
BC420N	PUR	TPO		4 - 5	2,5 - 35	10	10
BC421N	PUR	TPO	✔	4	2,5 - 25	10	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
MOTOR COMPATIBLE CABLE - HARDNESSED CABLE - SIEMENS® STANDARD							
BTC423LC	PVC	TPO		4	1,5 - 16	10	15
BTC423ALC	PVC	TPO		6	1,5 - 50	10	15
BTC440	PVC	PP		12	0,14 - 0,50	10	10
BTC421LC	PUR	TPO		4	1,5 - 16	7,5	10
BTC435LC	PUR	TPO		6	1,5 - 50	7,5	10
BTC440	PUR	PP		12	0,14 - 0,50	10	10

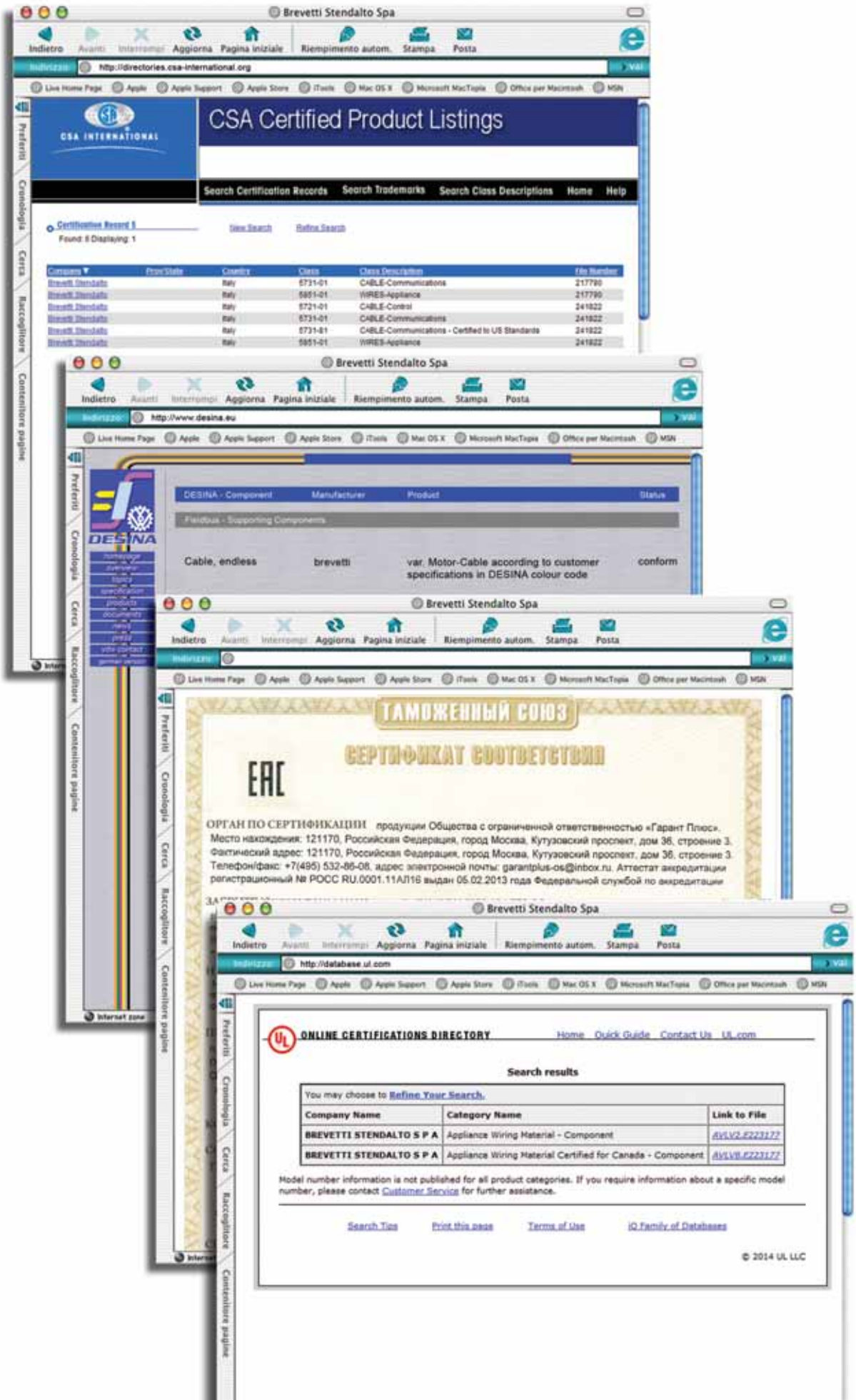
Max. speed (m/min)	Max. acceleration (m/s²)	Temperature C°	Nominal voltage (kV)	Approvals and standards	Halogen-free	Oil-resistant	UV resistant	Flame retardant	Page
220	10	-5 +80	300			✔		✔	10
220	10	-5 +80	300			✔		✔	11
180	10	-5 +90	600/1000			✔		✔	12
180	10	-5 +90	600/1000			✔		✔	13
300	25	-40 +80	300/600	EAC	✔	✔	✔	✔	14
300	25	-40 +80	300/600	EAC	✔	✔	✔	✔	15
180	10	-10 +80	300			✔		✔	16
300	25	-40 +80	300	EAC	✔	✔	✔	✔	17
240	20	-30 +80	1000	EAC	✔	✔	✔	✔	18
180	15	-15 +80	600/1000			✔		✔	22
180	15	-15 +80	600/1000			✔		✔	23
300	50	-30 +80	600/1000	EAC	✔	✔	✔	✔	24
300	50	-30 +80	600/1000	EAC	✔	✔	✔	✔	24
300	50	-30 +80	600/1000	EAC	✔	✔	✔	✔	25
240	20	-30 +80	600/1000	EAC	✔	✔	✔	✔	20
240	20	-30 +80	600/1000	EAC	✔	✔	✔	✔	21
180	10	-10 +80	600/1000			✔		✔	26
180	10	-10 +80	600/1000			✔		✔	27
300	25	-40 +80	600/1000	EAC	✔	✔	✔	✔	28
300	25	-40 +80	600/1000	EAC	✔	✔	✔	✔	29
240	10	-30 +80	600/1000	EAC	✔	✔	✔	✔	30
240	10	-30 +80	600/1000	EAC	✔	✔	✔	✔	30
180	15	-15 +80	600/1000			✔		✔	31
180	15	-15 +80	600/1000			✔		✔	32
180	6	-15 +80				✔		✔	33
300	50	-30 +80	600/1000	EAC	✔	✔	✔	✔	34
300	50	-30 +80	600/1000	EAC	✔	✔	✔	✔	35
240	20	-30 +80				✔		✔	36

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)
ENCODER, MEASURING SYSTEM AND RESOLVER CABLES								
	BC440 - Encoder	PUR	TPO	✔	12	0,14 - 0,5	10	10
	BC440 - Encoder	PVC	PP	✔	12	0,38 - 0,5	12	12
	BC440 - Encoder	PUR	PP	✔	12	0,38 - 0,5	11	11
	BC440 - Measuring System	PUR	TPE-E	✔	8	0,14 - 1	10	10
	BC440 - Measuring System	PUR	TPE-E	✔	12	0,14 - 0,5	10	10
	BC440 - Resolver	PVC	PVC	✔	8	0,25 - 0,35	15	15
	BC440 - Resolver	PVC	PVC	✔	8	0,25 - 0,35	12	12
	BC440 - Resolver	PUR	PP	✔	12 - 16	0,14 - 0,5	10	10
	BC440 - Resolver	PVC	PP	✔	12 - 16	0,14 - 0,5	10	10
	BC440 - Resolver	PUR	PP	✔	6 - 8	0,25 - 0,35	10	10
	BC440 - Dinamo Tachimetrica	PUR	TPO	✔	9	0,5	10	10
	BC440 - Signal	PUR	PP	✔	12	0,14 - 0,5	10	10
	BC440 - Signal	PUR	PP	✔	6	0,15 - 0,38	10	10
	BC440 - Signal	PVC	PP	✔	6	0,15 - 0,38	10	10
	BC440 - Signal	PUR	PP	✔	16	0,18	12	12
BUS CABLES								
	BC450 - Profibus Static App	PVC	Foam	✔	2	24 AWG	-	-
	BC450 - Profibus Dynamic App	PUR	Foam	✔	2	24 AWG	10	10
	BC450 - Interbus Static App	PVC	TPO	✔	6	0,22	-	-
	BC450 - Interbus Dynamic App	PUR	TPO	✔	6	0,22	10	10
	BC450 - DeviceNet Static App	PVC	Foam / PVC	✔	4	22-24 AWG	-	-
	BC450 - DeviceNet Dynamic App	PUR	Foam / PE	✔	4	22-24 AWG	10	10
	BC450 - Profibus Dynamic App	PVC	Foam / PP		2 - 4	0,25 - 0,35	10	10
	BC450 - Ethernet Cat5E	PUR	Foam	✔	4 - 8	24 AWG	15	15
	BC450 - Ethernet Cat6A	PUR	PE	✔	8	26 AWG	10	10
	BC450 - Ethernet Cat7	PUR	PE	✔	8	26 AWG	10	10
	BC450 - Profibus Dynamic App	PVC	Foam / PP	✔	5	24 AWG - 0,75	10	10
	BC450 - CAN Bus	PUR	TPO / PP	✔	2 - 4	0,25 - 0,35	10	10
FIBRE OPTIC CABLES								
	BC500 - Fibre Optic Cable	LSZH	-	-	6 - 24	50-62,5/125	10	10

Max. speed (m/min)	Max. acceleration (m/s²)	Temperature C°	Nominal voltage (kV)	Approvals and standards	Halogen-free	Oil-resistant	UV resistant	Flame retardant	Page
240	20	-30 +80	250	CE EAC	✔	✔	✔	✔	42
180	6	-10 +80	250	CE EAC		✔		✔	43
240	20	-30 +80	250	CE EAC	✔	✔	✔	✔	44
240	20	-40 +80	250	CE EAC	✔	✔	✔	✔	45
240	20	-40 +80	250	CE EAC	✔	✔	✔	✔	46
70	3	-10 +80	250	CE		✔		✔	47
160	6	-10 +80	250	CE		✔		✔	48
180 / 240	6 / 20	-10/-30 +80	250	CE EAC	✔	✔		✔	49
180 / 240	6 / 20	-10/-30 +80	250	CE EAC	✔	✔		✔	49
240	20	-30 +80	250	CE EAC	✔	✔	✔	✔	50
240	20	-30 +80	250	CE EAC	✔	✔	✔	✔	51
240	20	-30 +80	30	CE EAC	✔	✔	✔	✔	52
240	20	-30 +80	30	CE EAC	✔	✔	✔	✔	53
180	6	-10 +80	30	CE		✔		✔	53
240	20	-30 +80	250	CE EAC	✔	✔	✔	✔	54
-	-	-5 +80	-	CE		✔		✔	52
240	20	-30 +80	-	CE EAC	✔	✔	✔	✔	53
-	-	-5 +80	-	CE		✔		✔	54
240	20	-30 +80	-	CE EAC	✔	✔	✔	✔	55
-	-	-5 +80	-	CE		✔		✔	56
240	20	-30 +80	-	CE EAC	✔	✔	✔	✔	57
180	7	-30 +80	-	CE EAC	✔	✔	✔	✔	58
240	20	-30 +80	-	CE EAC	✔	✔	✔	✔	59
240	50	-30 +80	-	CE EAC	✔	✔	✔	✔	60
240	50	-30 +80	-	CE EAC	✔	✔	✔	✔	61
60 / 240	2 / 20	-30 +80	-	CE EAC	✔	✔	✔	✔	62
180	7	-30 +80	-	CE EAC	✔	✔	✔	✔	62
-	-	-20 +60	-	CE	✔	✔	✔	✔	63

Certifications



Multiconductor Control Cables

Multicore control 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 complyng with DIN 47100

Core assembling:
special multi-ply with soft strip
on outer layer

Jacket material:
special compound type PVC,
colour grey RAL 7001

Schielding:
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	65	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*

Multicore control 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)C	4,3	32	11,7	28
4070302	(3x0,25)C	4,5	34	14,7	30
4070402	(4x0,25)C	4,8	36	18	35
4070502	(5x0,25)C	5,1	38	21,4	40
4070702	(7x0,25)C	5,6	42	27	51
4071202	(12x0,25)C	6,8	51	45	74
4071802	(18x0,25)C	7,7	58	61	100
4072502	(25x0,25)C	9,5	71	86,4	148
4073702	(37x0,25)C	10,8	81	117	230
4070203	(2x0,34)C	4,5	34	13,8	31
4070303	(3x0,34)C	4,7	35	17,6	34
4070403	(4x0,34)C	5,0	38	21,7	39
4070503	(5x0,34)C	5,4	41	26	46
4070703	(7x0,34)C	6,6	50	38	58
4071203	(12x0,34)C	7,4	56	59	88
4071803	(18x0,34)C	8,7	65	88,8	124
4072503	(25x0,34)C	10,1	76	108,7	176
4073703	(37x0,34)C	12,4	93	162	275

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

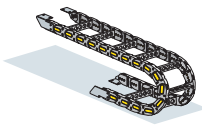
BC406
BC407

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

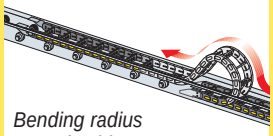
Nominal voltage: 300 V

Complying with UL and CSA for the European and USA market

Very good oil resistant PVC jacket



Bending radius
7,5 x Ø cable



Bending radius
10 x Ø cable

For further information please consult Brevetti Stendalto's Technical Office

Multicore control cables with PVC jacket

BC408

Technical data: BC408-BC409

Nominal voltage:
sect.0,5 to 1,5 mm² 600 V
sect. ≥ 2,5 mm² 1000 V

Testing voltage:
sect.0,5 to 1,5 mm² 2000 V
sect. ≥ 2,5 mm² 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

Schielding:
Tinned copper braid: > 80%

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm²	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*

Multicore control cables shielded with PVC jacket

BC409

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4090305	(3G0,5)C	7	53	31,3	51
4090405	(4G0,5)C	7,4	56	37,9	62
4090505	(5G0,5)C	8,1	61	44,7	73
4090705	(7G0,5)C	9,3	72	58,1	105
4091205	(12G0,5)C	11,5	86	92,6	153
4091805	(18G0,5)C	13,4	101	128,1	218
4092505	(25G0,5)C	15,8	119	170,8	311
4090307	(3G0,75)C	7,6	57	40,6	62
4090407	(4G0,75)C	8,1	61	50	76
4090507	(5G0,75)C	8,2	65	59,6	90
4090707	(7G0,75)C	10,2	77	78,8	130
4091207	(12G0,75)C	12,5	94	127,6	195
4091807	(18G0,75)C	14,6	110	179,9	280
4092507	(25G0,75)C	17,2	129	259	415
4090310	(3G1,0)C	8,1	61	49,8	84
4090410	(4G1,0)C	8,7	65	61,5	102
4090510	(5G1,0)C	9,8	74	73,5	127
4090710	(7G1,0)C	11	83	97,3	174
4091210	(12G1,0)C	13,5	101	157,1	258
4091810	(18G1,0)C	15,7	118	222,6	369
4092510	(25G1,0)C	19,6	147	322,1	551
4090315	(3G1,5)C	8,4	65	66,1	104
4090415	(4G1,5)C	9,2	73	82,9	134
4090515	(5G1,5)C	10,4	78	99,9	159
4090715	(7G1,5)C	12,2	92	137,6	229
4091215	(12G1,5)C	14,7	110	219	336
4091815	(18G1,5)C	17,1	128	330,9	495
4092515	(25G1,5)C	21,3	160	450,4	736
4090325	(3G2,5)C	11,8	89	103,3	187
4090425	(4G2,5)C	13	98	129,9	234
4090725	(7G2,5)C	16,6	125	226,6	413
4091225	(12G2,5)C	20,6	155	358,5	616
4090440	(4G4)C	14,6	110	200,6	324
4090460	(4G6)C	16,9	127	298,8	459

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

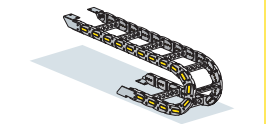
BC408
BC409

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

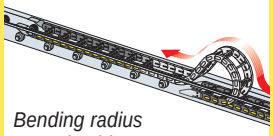
Nominal voltage: 600 V

Complying with UL and CSA for the European and USA market

Very good oil resistant PVC jacket



Bending radius 7,5 x Ø cable



Bending radius 10 x Ø cable

For further information please consult Brevetti Stendalto's Technical Office

Multicore control cables, inner insulation TPE-E with PUR jacket

BC418

Technical data: BC418 - 419

Nominal voltage:

sect.0,34 mm²	300 V
sect.0,5-2,5 mm²	600 V

Testing voltage:

sect.0,34 mm²	1500 V
sect.0,5-2,5 mm²	2000 V

Temperature range:
from -40°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 mm²	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 exept for 4181225, 4181825, 4182525, 4180540*

Multicore 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 mm²	mm	mm	kg/km	kg/km
4191202	(12x0,25)C	6,90	35	49	80
4190303	(3x0,34)C	4,70	24	19	56
4190503	(5x0,34)C	5,40	27	28	76
4190703	(7x0,34)C	6,40	32	36	95
4191203	(12x0,34)C	7,20	36	58	163
4191803	(18x0,34)C	8,30	42	85	198
4192503	(25x0,34)C	10,10	51	122	297
4190305	(3G0,50)C	6,90	35	39	79
4190505	(5G0,50)C	7,70	39	54	107
4190705	(7G0,50)C	8,70	44	70	132
4190805	(8G0,50)C	9,40	47	62	121
4191205	(12G0,50)C	10,20	51	100	190
4191805	(18G0,50)C	11,50	58	153	245
4192505	(25G0,50)C	13,60	68	202	367
4190207	(2x0,75)C	7,00	35	27	62
4190407X	(4x0,75)C	7,70	39	44	79
4190507	(5G0,75)C	8,40	42	56	95
4190707	(7G0,75)C	9,40	47	75	127
4191207	(12G0,75)C	11,00	55	118	178
4191807	(18G0,75)C	12,50	63	173	249
4192507	(25G0,75)C	14,80	74	234	357
4190310	(3G1,0)C	7,70	39	57	109
4190510	(5G1,0)C	8,90	45	81	147
4190710	(7G1,0)C	10,00	50	110	196
4191210	(12G1,0)C	11,80	59	182	292
4191810	(18G1,0)C	13,70	69	254	418
4192510	(25G1,0)C	16,20	81	365	575
4190415	(4G1,5)C	9,10	46	91	136
4190515	(5G1,5)C	9,70	49	112	198
4190715	(7G1,5)C	11,00	55	145	254
4191215	(12G1,5)C	13,10	66	247	416
4191815	(18G1,5)C	15,20	76	348	564
4192515	(25G1,5)C	18,50	93	498	811
4190425	(4G2,5)C	10,20	51	145	203
4190525	(5G2,5)C	12,50	63	158	244
4190725	(7G2,5)C	13,00	65	235	343
4191225	(12G2,5)C	16,50	125	378	499
4191825	(18G2,5)C	20,60	155	600	760
4192525	(25G2,5)C	23,90	240	835	1085

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

brevetti stendalto

BC418
BC419

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

Small outer dimension

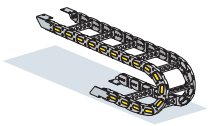
Min. bending radius

Complying with UL and CSA for the European and USA market

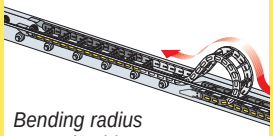
Nominal voltage 300V UL/CSA sect. ≤ 0,34 mm²
Nominal voltage 600V UL/CSA sect. ≥ 0,34 mm²

Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C



Bending radius
5 x Ø cable



Bending radius
7,5 x Ø cable

CE

RoHS
2002/95/EC

Halogen free

For further information please consult Brevetti Stendalto's Technical Office

Multipair shielded signal cable with PVC jacket

BC412

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4120202	(2x(2x0,25)C	5,85	44	22	44
4120302	(3x(2x0,25)C	6,00	45	27	48
4120402	(4x(2x0,25)C	6,65	50	33	57
4120502	(5x(2x0,25)C	7,15	54	39	68
4120602	(6x(2x0,25)C	8,15	61	45	78
4120203	(2x(2x0,34)C	6,35	54	28	64
4120303	(3x(2x0,34)C	6,68	57	36	72
4120403	(4x(2x0,34)C	7,15	61	44	67
4120503	(5x(2x0,34)C	8,14	69	53	83
4120603	(6x(2x0,34)C	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/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, 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 %

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

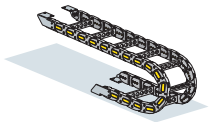
BC412

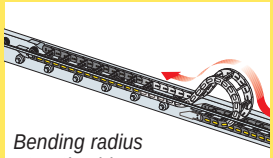
Speed: 180 m/min
Acceleration: 10 m/s²

Complying with UL and CSA for the European and USA market

Nominal voltage 300V

Very good oil resistant PVC jacket


Bending radius 7,5 x Ø cable


Bending radius 10 x Ø cable

CE

RoHS 2002/95/EC

For further information please consult Brevetti Stendalto's Technical Office

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 mm²	mm	mm	kg/km	kg/km
4130202	(2x(2x0,25)C	5,80	29	22	43
4130302	(3x(2x0,25)C	5,95	30	27	46
4130402	(4x(2x0,25)C	6,50	33	33	55
4130502	(5x(2x0,25)C	7,10	36	39	66
4130602	(6x(2x0,25)C	7,70	39	45	75
4130203	(2x(2x0,34)C	6,00	30	28	50
4130303	(3x(2x0,34)C	6,40	32	36	54
4130403	(4x(2x0,34)C	7,00	35	44	66
4130503	(5x(2x0,34)C	7,50	38	53	77
4130603	(6x(2x0,34)C	8,20	41	61	96
4131005	(10x(2x0,50)C	13,90	70	190	249

Technical data

Nominal voltage: 300 V

Testing voltage: 1500 V

Temperature range: -40°C to +80°C

Speed: 300 m/min

Acceleration: 25 m/s²

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 %

BC413

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

Small outer dimension

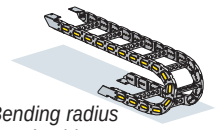
Low min. bending radius

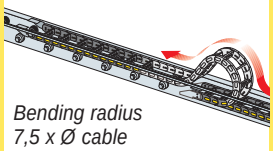
Complying with UL and CSA for the European and USA market

Nominal voltage 300V

Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C


Bending radius
5 x Ø cable


Bending radius
7,5 x Ø cable

CE

RoHS
2002/95/EC

Halogen free

For further information please consult Brevetti Stendalto's Technical Office

Multicore control shielded signal cable with PUR jacket

BC417

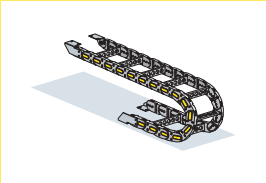
BC417

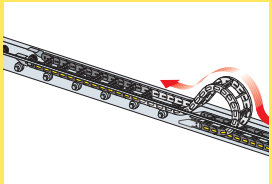
Speed: 240 m/min
Acceleration: 20 m/s²

Nominal voltage:
Uo/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





CE

RoHS 2002/95/EC

Halogen free

For further information please consult Brevetti Stendalto's Technical Office

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4170410	(4x(2x1))C	12,6	126	129	226
4170605	(6x(2x0,5))C	11,7	117	95	174
4170615	(6x(2x1,5))C	16,7	167	250	388
4170625	(6x(2x2,5))C	22,0	220	411	620
4170410W	(4x(2x1)C)C	16,5	165	119	365
4170405W	(4x(2x0,5)C)C	14,5	145	125	278
4170605W	(6x(2x0,5)C)C	16,5	165	150	297
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 Uo/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

Power cable with PUR jacket

BC420N

BC420N

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

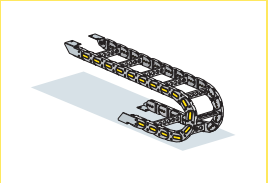
Complying with UL and CSA for the European and USA market

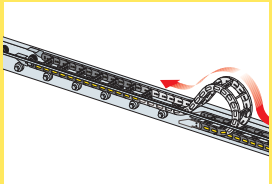
Nominal voltage Uo/U 600/1000

Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	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





CE

RoHS
2002/95/EC

Halogen free

For further information please consult Brevetti Stendalto's Technical Office

Technical data

Nominal voltage:	Uo/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 - NEK 606

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

Power cable with PUR jacket

BC421N

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4210425N	(4G2,5)C	10,60	100	145	210
4210440N	(4G4,0)C	13,20	135	224	290
4210460N	(4G6,0)C	14,80	150	286	402
4214100N	(4G10,0)C	18,10	180	485	640
4214160N	(4G16,0)C	21,55	210	723	935
4214250N	(4G25,0)C	26,50	260	1089	1400

Technical data

Nominal voltage:	Uo/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- NEK 606

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 %

BC421N

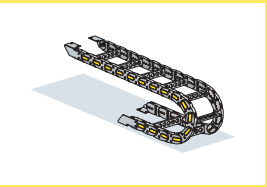
Speed: 240 m/min
Acceleration: 20 m/s²

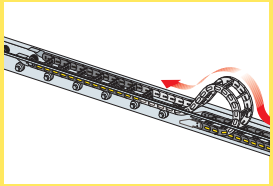
Complying with UL and CSA for the European and USA market

Nominal voltage Uo/U 600/1000

Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C





RoHS 2002/95/EC

Halogen free

For further information please consult Brevetti Stendalto's Technical Office

Shielded Motor-Servocables with PVC jacket. Low capacitance

BC423LC

BC423LC

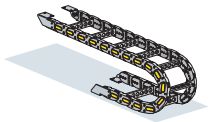
Speed: 180 m/min
Acceleration: 15 m/s²

Complying with UL and CSA for the European and USA market

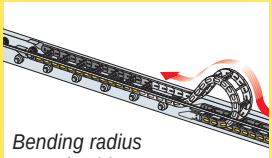
Nominal voltage: AWM 600/1000V

Very good oil resistant PVC jacket

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4230415LC	(4G1,5)C	9,10	91	94	130
4230425LC	(4G2,5)C	10,60	106	142	188
4230440LC	(4G4,0)C	11,90	120	207	270
4230460LC	(4G6,0)C	14,50	145	304	413
4234100LC	(4G10,0)C	17,40	174	486	610
4234160LC	(4G16,0)C	21,50	215	750	950
4234250LC	(4G25,0)C	25,30	255	1143	1420
4234350LC	(4G35,0)C	28,60	290	1540	1900
4234500LC	(4G50,0)C	33,40	350	2247	2850



Bending radius 10 x Ø cable



Bending radius 15 x Ø cable

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 %

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

For further information please consult Brevetti Stendalto's Technical Office

Shielded Motor-Servocables with PVC jacket. Low capacitance

BC423ALC

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4230415ALC	((4G1,5) + (2x1,5)C)C	11,60	116	155	223
4230425ALC	((4G2,5) + (2x1,5)C)C	13,40	134	204	283
4230440ALC	((4G4,0) + (2x1,5)C)C	14,80	148	272	362
4230460ALC	((4G6,0) + (2x1,5)C)C	16,80	168	364	488
4234100ALC	((4G10,0) + (2x1,5)C)C	19,40	194	552	692
4234160ALC	((4G16,0) + (2x1,5)C)C	23,10	231	803	990
4234250ALC	((4G25,0) + (2x1,5)C)C	26,60	266	1166	1430
4234350ALC	((4G35,0) + (2x1,5)C)C	30,90	309	1570	2025
4234500ALC	((4G50,0) + (2x1,5)C)C	34,00	350	2299	3050

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*

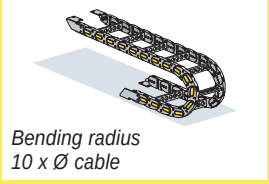
BC423ALC

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

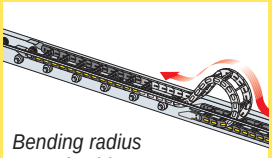
Complying with UL and CSA for the European and USA market

Nominal voltage:
AWM 600/1000V

Very good oil resistant PVC jacket



Bending radius
10 x Ø cable



Bending radius
15 x Ø cable

For further information please consult Brevetti Stendalto's Technical Office

Shielded Motor-Servocables with PUR jacket. Low capacitance

BC421LC

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4210415LC	(4G1,5)C	8,50	64	92	137
4210425LC	(4G2,5)C	10,00	75	142	188
4210440LC	(4G4,0)C	11,70	88	207	265
4210460LC	(4G6,0)C	13,80	103	309	399
4214100LC	(4G10,0)C	17,30	132	489	620
4214160LC	(4G16,0)C	21,40	160	749	1009
4214250LC	(4G25,0)C	24,80	186	1063	1480
4214350LC	(4G35,0)C	28,60	215	1545	1950
4214500LC	(4G50,0)C	35	262	2190	2900

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/Y
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%

Shielded Motor-Servocables for Indramat® Low capacitance

BC430LC

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4300407LC	((4G0,75)+2x(2x0,75)C)C	9,60	72	90	130
4300410LC	((4G1)+2x(2x0,75)C)C	11,40	85	170	201
4300415LC	((4G1.5)+2x(2x0,75)C)C	12,10	91	189	220
4300425LC	((4G2.5)+2x(2x1)C)C	14,60	110	223	311
4300440LC	((4G4)+(2x1)C+(2x1.5)C)C	16,30	122	309	440
4300460LC	((4G6)+(2x1)C+2x1.5)C)C	18,10	136	395	510
4304100LC	((4G10)+(2x1)C+2x1.5)C)C	21,80	163	575	772
4304160LC	((4G16)+2x(2x1.5)C)C	25,12	188	838	1100
4304250LC	((4G25)+2x(2x1.5)C)C	28,80	216	1250	1600
4304350LC	((4G35)+2x(2x1.5)C)C	30,90	232	1588	2000
4304500LC	((4G50)+2x(2x2.5)C)C	36,30	272	2351	3050

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

Shielded Motor-Servocables with PUR jacket. Low capacitance

BC435LC

Part No.	No. of cores x section	Diameter Ø	Bending radius*	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4350415LC	((4G1,5)+(2x1,5)C)C	10,80	81	155	213
4350425LC	((4G2,5)+(2x1,5)C)C	12,60	95	204	283
4350440LC	((4G4)+(2x1,5)C)C	14,10	106	266	368
4350460LC	((4G6)+(2x1,5)C)C	16,00	120	370	495
4354100LC	((4G10)+(2x1,5)C)C	18,70	140	559	692
4354160LC	((4G16)+(2x1,5)C)C	22,50	169	805	1027
4354250LC	((4G25)+(2x1,5)C)C	26,00	202	1176	1431
4354350LC	((4G35)+(2x1,5)C)C	30,90	232	1570	1953
4354500LC	((4G50)+(2x1,5)C)C	34,00	255	2210	2740

BC421LC
BC430LC
BC435LC

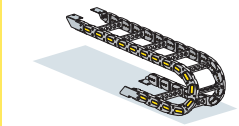
Speed: 300 m/min
Acceleration: 50 m/s²

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

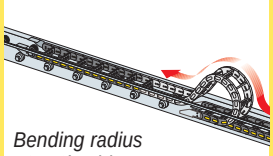
Complying with UL and CSA for the European and USA market

Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C



Bending radius
7,5 x Ø cable



Bending radius
10 x Ø cable

CE

RoHS
2002/95/EC

Halogen free

For further information please consult Brevetti Stendalto's Technical Office

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

Single core cable with PVC jacket

BC427

BC427

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

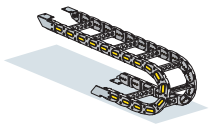
Complying with UL for the European and USA market

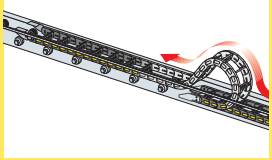
Nominal voltage 1000 V

Resistant to the rays U.V.

Very good oil resistant PVC jacket

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	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:	600/1000 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/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 mm²	mm	mm	kg/km	kg/km
4270106C	(1x6)C	8,00	80	78	122
4270110C	(1x10)C	9,50	95	123	178
4270116C	(1x16)C	11,00	110	182	273
4270125C	(1x25)C	13,00	130	268	375
4270135C	(1x35)C	14,00	140	400	481
4270150C	(1x50)C	16,50	165	580	660
4270170C	(1x70)C	20,00	200	765	967
4270195C	(1x95)C	22,00	220	1010	1264

Technical data

Nominal voltage:	600/1000 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 %	

BC427C

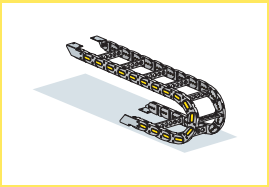
Speed: 180 m/min
Acceleration: 10 m/s²

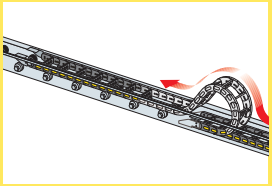
Complying with UL for the European and USA market

Nominal voltage 1000 V

Resistant to the rays U.V.

Very good oil resistant PVC jacket





CE

RoHS 2002/95/EC

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

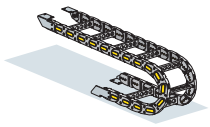
Complying with UL for the European and USA market

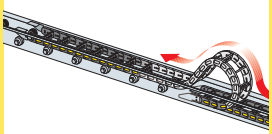
Nominal voltage 600/1000 V

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 mm²	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





RoHS 2002/95/EC

Halogen free

Technical data

Nominal voltage:	600/1000 V
Testing voltage:	3000 V
Temperature range:	-40°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 - NEK 606

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 mm²	mm	mm	kg/km	kg/km
4260110	(1x10)C	8,90	67	123	170
4260116	(1x16)C	10,10	76	182	230
4260125	(1x25)C	11,90	89	276	350
4260135	(1x35)C	13,30	100	400	450
4260150	(1x50)C	15,90	120	580	736
4260170	(1x70)C	17,40	130	765	885
4260195	(1x95)C	19,50	145	1010	1119
4261120	(1x120)C	22,50	165	1230	1430
4261150	(1x150)C	24,00	180	1610	1730
4261185	(1x185)C	26,80	200	2010	2130
4261240	(1x240)C	31,00	233	2487	2974

Technical data

Nominal voltage: 600/1000 V

Testing voltage: 3000 V

Temperature range: -40°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 - NEK 606

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 %

BC426

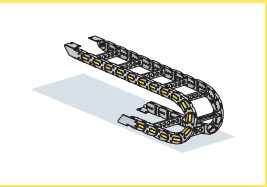
Speed: 300 m/min
Acceleration: 25 m/s²

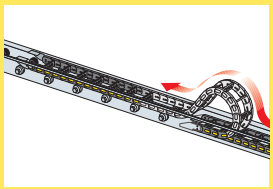
Complying with UL for the European and USA market

Nominal voltage 600/1000 V

Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C





CE

RoHS
2002/95/EC

Halogen free

For further information please consult Brevetti Stendalto's Technical Office

brevetti stendalto

BC428
BC429

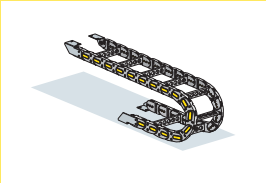
Speed: 240 m/min
Acceleration: 10 m/s²

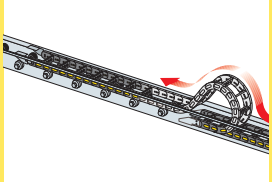
Complying with UL and CSA for the European and USA market

Nominal voltage
Uo/U 600/1000V

Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C





CE

RoHS 2002/95/EC

Halogen free

For further information please consult Brevetti Stendalto's Technical Office

Power cable with PUR jacket

BC428

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	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	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
429350PE	(3x50+3x10 PE)C	38	380	1985	2900

Technical data: BC428 - BC429

Nominal voltage:	Uo/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 - NEK 606

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 mm²	mm	mm
6FX5002-5CA01	**4235CA01xxxy**	4230415LC	(4G1,5)C	9,10	91
6FX5002-5CA21	**4235CA21xxxy**	4230415LC	(4G1,5)C	9,10	91
6FX5002-5CA11	**4235CA11xxxy**	4230425LC	(4G2,5)C	10,60	106
6FX5002-5CA31	**4235CA31xxxy**	4230425LC	(4G2,5)C	10,60	106
6FX5002-5CA41	**4235CA41xxxy**	4230440LC	(4G4,0)C	11,90	120
6FX5002-5CA51	**4235CA51xxxy**	4230460LC	(4G6,0)C	14,50	145
6FX5002-5CA61	**4235CA61xxxy**	4234100LC	(4G10,0)C	17,40	174
6FX5002-5CA13	**4235CA13xxxy**	4234100LC	(4G10,0)C	17,40	174
6FX5002-5CA23	**4235CA23xxxy**	4234160LC	(4G16,0)C	21,50	215

Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm²	mm	mm
6FX5002-5CS01	**4235CS01xxxy**	4230415LC	(4G1,5)C	9,10	91
6FX5002-5CS21	**4235CS21xxxy**	4230415LC	(4G1,5)C	9,10	91
6FX5002-5CS11	**4235CS11xxxy**	4230425LC	(4G2,5)C	10,60	106
6FX5002-5CS31	**4235CS31xxxy**	4230425LC	(4G2,5)C	10,60	106
6FX5002-5CS41	**4235CS41xxxy**	4230440LC	(4G4,0)C	11,90	120
6FX5002-5CS51	**4235CS51xxxy**	4230460LC	(4G6,0)C	14,50	145
6FX5002-5CS61	**4235CS61xxxy**	4234100LC	(4G10,0)C	17,40	174
6FX5002-5CS13	**4235CS13xxxy**	4234100LC	(4G10,0)C	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 mm²	mm	mm
6FX5002-5CA05	**4235CA05xxxy**	4230415LC	(4G1,5)C	9,10	91
6FX5002-5CA28	**4235CA28xxxy**	4230415LC	(4G1,5)C	9,10	91
6FX5002-5CA15	**4235CA15xxxy**	4230425LC	(4G2,5)C	10,60	106
6FX5002-5CA38	**4235CA38xxxy**	4230425LC	(4G2,5)C	10,60	106
6FX5002-5CA48	**4235CA48xxxy**	4230440LC	(4G4,0)C	11,90	120
6FX5002-5CA58	**4235CA58xxxy**	4230460LC	(4G6,0)C	14,50	145
6FX5002-5CA68	**4235CA68xxxy**	4234100LC	(4G10,0)C	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

BTC423LC

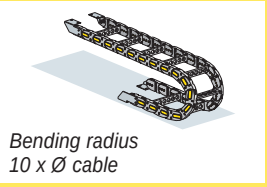
Speed: 180 m/min
Acceleration: 15 m/s²

Complying with UL and CSA for the European and USA market

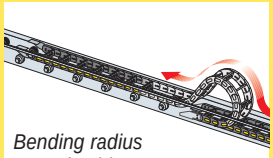
Nominal voltage:
AWM 600/1000V

Very good oil resistant PVC jacket

TECHNICAL DATA
see page. 26



Bending radius
10 x Ø cable



Bending radius
15 x Ø cable

CE

RoHS
2002/95/EC

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

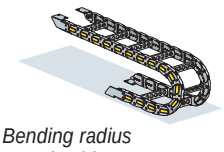
Complying with UL and CSA for the European and USA market

Nominal voltage:
AWM 600/1000V

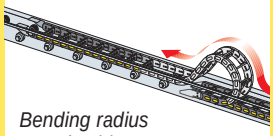
Very good oil resistant PVC jacket

TECHNICAL DATA
see page. 27

Manufacturer Part No.	Brevetti Total Cable** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm²	mm	mm
6FX5002-5DA01	**4235DA01xxxy**	4230415ALC	((4G1,5)+(2x1,5)C)C	11,60	116
6FX5002-5DA21	**4235DA21xxxy**	4230415ALC	((4G1,5)+(2x1,5)C)C	11,60	116
6FX5002-5DA11	**4235DA11xxxy**	4230425ALC	((4G2,5)+(2x1,5)C)C	13,40	134
6FX5002-5DA31	**4235DA31xxxy**	4230425ALC	((4G2,5+2x1,5)C)C	13,40	134
6FX5002-5DA41	**4235DA41xxxy**	4230440ALC	((4G4,0+2x1,5)C)C	14,80	148
6FX5002-5DA51	**4235DA51xxxy**	4230460ALC	((4G6,0+2x1,5)C)C	16,80	168
6FX5002-5DA61	**4235DA61xxxy**	4234100ALC	((4G10,0+2x1,5)C)C	19,40	194
6FX5002-5DA13	**4235DA13xxxy**	4234100ALC	((4G10,0+2x1,5)C)C	19,40	194
6FX5002-5DA23	**4235DA23xxxy**	4234160ALC	((4G16,0+2x1,5)C)C	23,10	231
6FX5002-5DA33	**4235DA33xxxy**	4234250ALC	((4G25,0+2x1,5)C)C	26,60	266
6FX5002-5DA43	**4235DA43xxxy**	4234350ALC	((4G35,0+2x1,5)C)C	30,90	309
6FX5002-5DA53	**4235DA53xxxy**	4234500ALC	((4G50,0+2x1,5)C)C	34,00	350



Bending radius
10 x Ø cable



Bending radius
15 x Ø cable

Manufacturer Part No.	Brevetti Total Cable** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm²	mm	mm
6FX5002-5DS01	**4235D01xxxy**	4230415ALC	((4G1,5)+(2x1,5)C)C	11,60	116
6FX5002-5DS21	**4235D21xxxy**	4230415ALC	((4G1,5)+(2x1,5)C)C	11,60	116
6FX5002-5DS11	**4235D21xxxy**	4230425ALC	((4G2,5)+(2x1,5)C)C	13,40	134
6FX5002-5DS31	**4235D31xxxy**	4230425ALC	((4G2,5)+(2x1,5)C)C	13,40	134
6FX5002-5DS41	**4235D41xxxy**	4230440ALC	((4G4,0)+(2x1,5)C)C	14,80	148
6FX5002-5DS51	**4235D51xxxy**	4230460ALC	((4G6,0)+(2x1,5)C)C	16,80	168
6FX5002-5DS61	**4235D61xxxy**	4234100ALC	((4G10,0)+(2x1,5)C)C	19,40	194
6FX5002-5DS13	**4235D13xxxy**	4234100ALC	((4G10,0)+(2x1,5)C)C	19,40	194

Manufacturer Part No.	Brevetti Total Cable** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm²	mm	mm
6FX5002-5DA05	**4235DA05xxxy**	4230415ALC	((4G1,5)+(2x1,5)C)C	11,60	116
6FX5002-5DA28	**4235DA28xxxy**	4230415ALC	((4G1,5)+(2x1,5)C)C	11,60	116
6FX5002-5DA15	**4235DA15xxxy**	4230425ALC	((4G2,5)+(2x1,5)C)C	13,40	134
6FX5002-5DA38	**4235DA38xxxy**	4230425ALC	((4G2,5)+(2x1,5)C)C	13,40	134
6FX5002-5DA48	**4235DA48xxxy**	4230440ALC	((4G4,0)+(2x1,5)C)C	14,80	148
6FX5002-5DA58	**4235DA58xxxy**	4230460ALC	((4G6,0)+(2x1,5)C)C	16,80	168
6FX5002-5DA68	**4235DA68xxxy**	4234100ALC	((4G10,0)+(2x1,5)C)C	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

BTC440

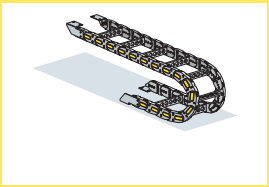
Complying with UL and CSA for the European and USA market

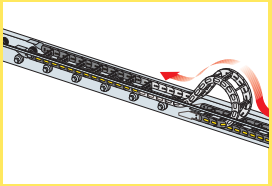
Polyurethan jacket resistant to hydrolysis, microbics and oils

Manufacturer Part No.	Brevetti Total Cable** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø
			n x mm²	mm
6FX5002-2AD00	**440VAD00xxxy**	4400016	(3x(2x0,14)C+4x0,14+2x0,50)C	8,50
6FX5002-2AH00	**440VAH00xxxy**	4400018	(4x2x0,38+4x0,50)C	8,90
6FX5002-2CA11	**440VCA11xxxy**	4400018	(4x2x0,38+4x0,50)C	8,90
6FX5002-2CA15	**440VCA15xxxy**	4400016	(3x(2x0,14)C+4x0,14+2x0,50)C	8,50
6FX5002-2CA31	**440VCA31xxxy**	4400019	(3x(2x0,14)C+4x0,14+4x0,25+2x0,50)C	9,50
6FX5002-2CA51	**440VCA51xxxy**	4400016	(3x(2x0,14)C+4x0,14+2x0,50)C	9,50
6FX5002-2CA61	**440VCA61xxxy**	4400016	(3x(2x0,14)C+4x0,14+2x0,50)C	8,50
6FX5002-2CA71	**440VCA71xxxy**	4400018	(4x2x0,38+4x0,50)C	8,90
6FX5002-2CB51	**440VCB51xxxy**	4400018	(4x2x0,38+4x0,50)C	8,90
6FX5002-2CC11	**440VCC11xxxy**	4400018	(4x2x0,38+4x0,50)C	8,90
6FX5002-2CD01	**440VCD01xxxy**	4400018	(4x2x0,38+4x0,50)C	8,90
6FX5002-2CF02	**440VCF02xxxy**	4400016	(3x(2x0,14)C+4x0,14+2x0,50)C	8,50
6FX5002-2CG00	**440VCG00xxxy**	4400018	(4x2x0,38+4x0,50)C	8,90
6FX5002-2CH00	**440VCH00xxxy**	4400016	(3x(2x0,14)C+4x0,14+2x0,50)C	8,50
6FX5002-2EQ10	**440VEQ10xxxy**	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	Diameter Ø
			n x mm²	mm
6FX5002-2AD04	**440VAD04xxxy**	4400016	(3x(2x0,14)C+4x0,14+2x0,50)C	8,50
6FX5002-2AH04	**440VAH04xxxy**	4400018	(4x2x0,38+4x0,50)C	8,90
6FX5002-2CB54	**440VCB54xxxy**	4400018	(4x2x0,38+4x0,50)C	8,90
6FX5002-2CA54	**440VCA54xxxy**	4400016	(3x(2x0,14)C+4x0,14+2x0,50)C	9,50
6FX5002-2CA34	**440VCA34xxxy**	4400019	(3x(2x0,14)C+4x0,14+4x0,25+2x0,50)C	9,50
6FX5002-2CF04	**440VCF04xxxy**	4400016	(4x2x0,38+4x0,50)C	8,50
6FX5002-2EQ14	**440VEQ14xxxy**	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	Diameter Ø
			n x mm²	mm
6FX5002-2DC00	**440VDC00xxxy**	4400025	(2x2x0,15+2x0,38)C	7,20
6FX5002-2DC10	**440VDC10xxxy**	4400025	(2x2x0,15+2x0,38)C	7,20
6FX5002-2DC20	**440VDC20xxxy**	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 (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 + compatibleconnectors 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

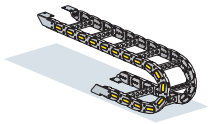
Complying with UL and CSA for the European and USA market

Polyurethan jacket resistant to hydrolysis, microbics and oils

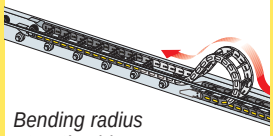
Suitable for outdoor applications at -30°C

TECHNICAL DATA see page. 28

Manufacturer Part No.	Brevetti Total Cable** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm²	mm	mm
6FX8002-5CA01	**4215CA01xxxy**	4210415LC	(4G1,5)C	8,50	64
6FX8002-5CA21	**4215CA21xxxy**	4210415LC	(4G1,5)C	8,50	64
6FX8002-5CA11	**4215CA11xxxy**	4210425LC	(4G2,5)C	10,00	75
6FX8002-5CA31	**4215CA31xxxy**	4210425LC	(4G2,5)C	10,00	75
6FX8002-5CA41	**4215CA41xxxy**	4210440LC	(4G4,0)C	11,70	88
6FX8002-5CA51	**4215CA51xxxy**	4210460LC	(4G6,0)C	13,80	103
6FX8002-5CA61	**4215CA61xxxy**	4214100LC	(4G10,0)C	17,30	132
6FX8002-5CA13	**4215CA13xxxy**	4214100LC	(4G10,0)C	17,30	132
6FX8002-5CA23	**4215CA23xxxy**	4214160LC	(4G16,0)C	21,40	160



Bending radius 7,5 x Ø cable



Bending radius 10 x Ø cable

CE

RoHS 2002/95/EC

Privo di alogeni

Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm²	mm	mm
6FX8002-5CS01	**4215CS01xxxy**	4210415LC	(4G1,5)C	8,50	64
6FX8002-5CS21	**4215CS21xxxy**	4210415LC	(4G1,5)C	8,50	64
6FX8002-5CS11	**4215CS11xxxy**	4210425LC	(4G2,5)C	10,00	75
6FX8002-5CS31	**4215CS31xxxy**	4210425LC	(4G2,5)C	10,00	75
6FX8002-5CS41	**4215CS41xxxy**	4210440LC	(4G4,0)C	11,70	88
6FX8002-5CS51	**4215CS51xxxy**	4210460LC	(4G6,0)C	13,80	103
6FX8002-5CS61	**4215CS61xxxy**	4214100LC	(4G10,0)C	17,30	132
6FX8002-5CS13	**4215CS13xxxy**	4214100LC	(4G10,0)C	17,30	132

Manufacturer Part No.	Brevetti Total Cable ** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm²	mm	mm
6FX8002-5CA05	**4215CA05xxxy**	4210415LC	(4G1,5)C	8,50	64
6FX8002-5CA28	**4215CA28xxxy**	4210415LC	(4G1,5)C	8,50	64
6FX8002-5CA15	**4215CA15xxxy**	4210425LC	(4G2,5)C	10,00	75
6FX8002-5CA38	**4215CA38xxxy**	4210425LC	(4G2,5)C	10,00	75
6FX8002-5CA48	**4215CA48xxxy**	4210440LC	(4G4,0)C	11,70	88
6FX8002-5CA58	**4215CA58xxxy**	4210460LC	(4G6,0)C	13,80	103
6FX8002-5CA68	**4215CA68xxxy**	4214100LC	(4G10,0)C	17,30	132

** 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 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	Diameter Ø	Bending radius*
			n x mm²	mm	mm
6FX8002-5DA01	**4355DA01xxxy**	4350415LC	((4G1,5)+(2x1,5)C)C	10,80	81
6FX8002-5DA21	**4355DA21xxxy**	4350415LC	((4G1,5)+(2x1,5)C)C	10,80	81
6FX8002-5DA11	**4355DA21xxxy**	4350425LC	((4G2,5)+(2x1,5)C)C	12,60	95
6FX8002-5DA31	**4355DA31xxxy**	4350425LC	((4G2,5)+(2x1,5)C)C	12,60	95
6FX8002-5DA41	**4355DA41xxxy**	4350440LC	((4G4,0)+(2x1,5)C)C	14,10	106
6FX8002-5DA51	**4355DA51xxxy**	4350460LC	((4G6,0)+(2x1,5)C)C	16,00	120
6FX8002-5DA61	**4355DA61xxxy**	4354100LC	((4G10,0)+(2x1,5)C)C	18,70	140
6FX8002-5DA13	**4355DA13xxxy**	4354100LC	((4G10,0)+(2x1,5)C)C	18,70	140
6FX8002-5DA23	**4355DA23xxxy**	4354160LC	((4G16,0)+(2x1,5)C)C	22,50	169
6FX8002-5DA33	**4355DA33xxxy**	4354250LC	((4G25,0)+(2x1,5)C)C	26,00	202
6FX8002-5DA43	**4355DA43xxxy**	4354350LC	((4G35,0)+(2x1,5)C)C	30,90	232
6FX8002-5DA53	**4355DA53xxxy**	4354500LC	((4G50,0)+(2x1,5)C)C	34,00	255

Manufacturer Part No.	Brevetti Total Cable** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm²	mm	mm
6FX8002-5DS01	**4355DS01xxxy**	4350415LC	((4G1,5)+(2x1,5)C)C	10,80	81
6FX8002-5DS21	**4355DS21xxxy**	4350415LC	((4G1,5)+(2x1,5)C)C	10,80	81
6FX8002-5DS11	**4355DS21xxxy**	4350425LC	((4G2,5)+(2x1,5)C)C	12,60	95
6FX8002-5DS31	**4355DS31xxxy**	4350425LC	((4G2,5)+(2x1,5)C)C	12,60	95
6FX8002-5DS41	**4355DS41xxxy**	4350440LC	((4G4,0)+(2x1,5)C)C	14,10	106
6FX8002-5DS51	**4355DS51xxxy**	4350460LC	((4G6,0)+(2x1,5)C)C	16,00	120
6FX8002-5DS61	**4355DS61xxxy**	4354100LC	((4G10,0)+(2x1,5)C)C	18,70	140
6FX8002-5DS13	**4355DS13xxxy**	4354100LC	((4G10,0)+(2x1,5)C)C	18,70	140

Manufacturer Part No.	Brevetti Total Cable** Part No.	Brevetti Part No.	No. of cores x section	Diameter Ø	Bending radius*
			n x mm²	mm	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 (xxxy). xxx=m; y=dm*
Ex.: 0001 = 0,1 m; 0010 = 1 m; 0120 = 12 m; 1230 = 123 m; 1334 = 133,4 m

BTC435LC

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

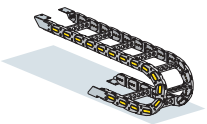
High flexible, small outer dimension, with low min. bending radius

Complying with UL and CSA for the European and USA market

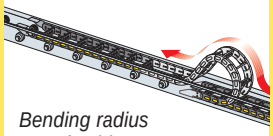
Polyurethan jacket resistant to hydrolysis, microbics and oils

Suitable for outdoor applications at -30°C

TECHNICAL DATA see page. 29



Bending radius 7,5 x Ø cable



Bending radius 10 x Ø cable

CE

RoHS 2002/95/EC

Privo di alogeni

For further information please consult Brevetti Stendalto's Technical Office

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

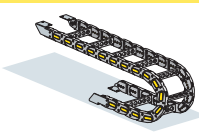
BTC440

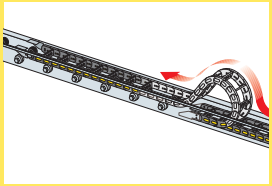
BTC440

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	Diameter Ø
			n x mm²	mm
6FX8002-2AD00	**440PAD00xxxy**	4400023	(3x(2x0,14)C+4x0,14+2x0,50)C	8,80
6FX8002-2AH00	**440PAH00xxxy**	4400002	(4x2x0,38+4x0,50)C	8,90
6FX8002-2CA11	**440PCA11xxxy**	4400002	(4x2x0,38+4x0,50)C	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)C	8,90
6FX8002-2CC11	**440PCC11xxxy**	4400002	(4x2x0,38+4x0,50)C	8,90
6FX8002-2CD01	**440PCD01xxxy**	4400002	(4x2x0,38+4x0,50)C	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)C	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	Diameter Ø
			n x mm²	mm
6FX8002-2AD04	**440PAD04xxxy**	4400023	(3x(2x0,14)C+4x0,14+2x0,50)C	8,80
6FX8002-2AH04	**440PAH04xxxy**	4400002	(4x2x0,38+4x0,50)C	8,90
6FX8002-2CB54	**440PCB54xxxy**	4400002	(4x2x0,38+4x0,50)C	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	Diameter Ø
			n x mm²	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

** 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

Encoder, measuring system resolver cables

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

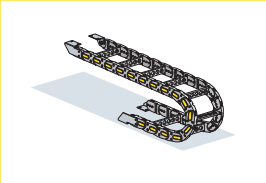
Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4400001	((4x2x0,25)+(2x1))C	8,80	90	74	110
4400020	((4x2x0,25)+(2x0,50))C	8,50	90	70	104

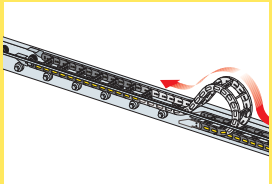
Technical data

Nominal voltage:	250 V
Testing voltage:	1500 V
Temperature range:	-30°C to + 80°C
Speed:	240 m/min
Acceleration:	20 m/s²
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 - NEK 606

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 mm², white/brown
Core assembling:	special with soft strip
Jacket material:	PUR, colour orange RAL 2003
Shielding:	Tinned copper braid: > 85 %





RoHS 2002/95/EC

Halogen free

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 mm²	mm	mm	kg/km	kg/km
4400018	((4x2x0,38)+(4x0,50))C	8,90	110	75	115

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 %

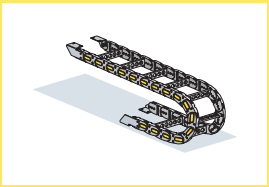
BC4400018

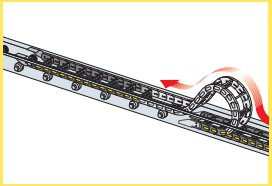
Speed: 180 m/min
Acceleration: 6 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the European and USA market

Very good oil resistant PVC jacket





RoHS 2002/95/EC

For further information please consult Brevetti Stendalto's Technical Office

Encoder cable with PUR jacket

BC440

BC4400002

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4400002	((4x2x0,38)+((4x0,50))C	8,90	100	76	120

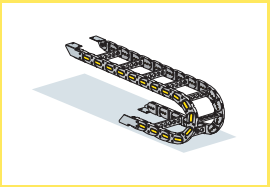
Speed: 240 m/min
Acceleration: 20 m/s²

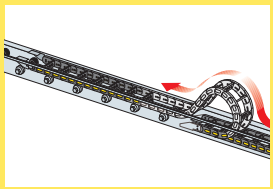
Nominal voltage 250 V

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





CE

RoHS 2002/95/EC

Halogen free

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 mm²	mm	mm	kg/km	kg/km
4400004	(3x(2x0,14)C+(2x1C))C	9,10	90	69	110
4400017	(3x(2x0,14)C+(2x0,50C))C	8,40	90	64	102

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

BC4400004
BC4400017

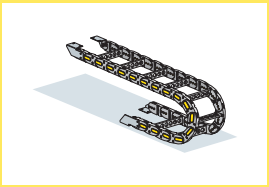
Speed: 240 m/min
Acceleration: 20 m/s²

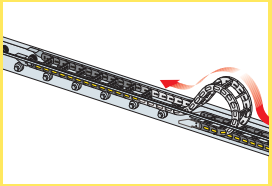
Nominal voltage 250 V

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





For further information please consult Brevetti Stendalto's Technical Office

Measuring systems cable with PUR jacket

BC440

BC4400005

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4400005	4x2x0,14+4x0,50	8,50	90	50	93

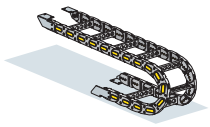
Speed: 240 m/min
Acceleration: 20 m/s²

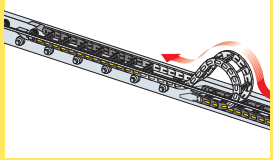
Nominal voltage 250 V

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





RoHS 2002/95/EC

Halogen free

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 mm²	mm	mm	kg/km	kg/km
4400007	4x(2x0,25C)	8,80	130	45	140
4400008	4x(2x0,35C)	11,72	170	55	160

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%

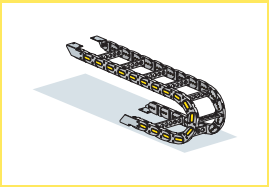
Jacket material:
special compound type PVC, colour green RAL 6018

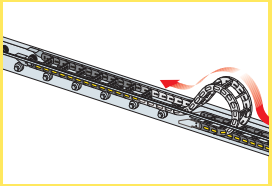
BC4400007
BC4400008

Speed: 70 m/min
Acceleration: 3 m/s²

Nominal voltage 250 V

Complying with UL and CSA for the European and USA market





CE

RoHS 2002/95/EC

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	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4400009	(4x(2x0,25)C))C	9,90	115	80	160
4400010	(4x(2x0,35)C))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/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 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

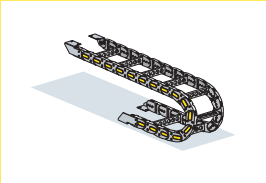
Core ident. :
black/red; black/white; black/green; black/blue

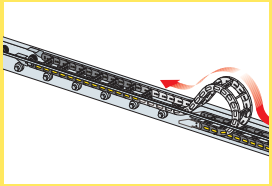
Pairs shielded:
Tinned copper braid: > 85 %

Intermediate jacket:
PVC on single pairs

Shielding:
Tinned copper braid: > 85 %

Jacket material:
special compound type PVC, colour green RAL 6018





RoHS 2002/95/EC

For further information please consult Brevetti Stendalto's Technical Office

Resolver cable, PVC and PUR jacket

BC440

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight	
	n x mm²	mm	mm	kg/km	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

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/s² 4400016 and 4400019 = 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 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 - NEK 606

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

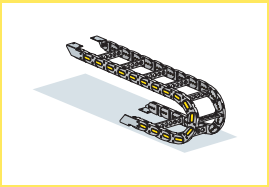
Shielding:
Tinned copper spiral, on the pair from 0,14 mm²,
Tinned copper braid: > 90 %

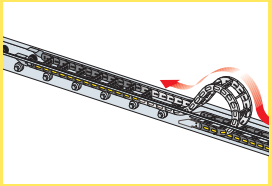
BC4400006
BC4400016
BC4400019

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





CE

RoHS 2002/95/EC

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	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4400014	(3x(2x0,25)C))C	9,05	90	72	120
4400011	(4x(2x0,25)C))C	9,90	100	86	154
4400012	(3x(2x0,35)C))C	9,40	95	76	145
4400013	(4x(2x0,35)C))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

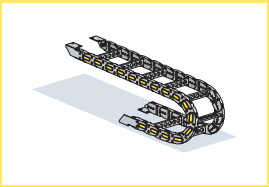
Core ident. :
black/red; black/white; black/green; black/blue

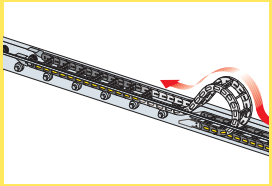
Intermediate jacket:
PVC on single shielded pairs

Shielding:
tinned copper braid on each pairs, covering > 85%

Jacket material:
PUR, colour green RAL 6018

Shielding:
Tinned copper braid: > 85 %





RoHS 2002/95/EC

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 mm²	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 - NEK 606	

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

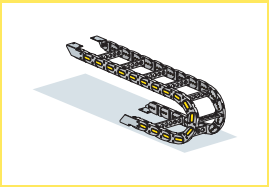
Speed: 240 m/min
Acceleration: 20 m/s²

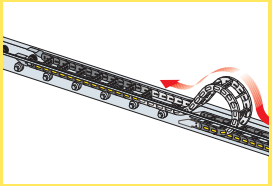
Nominal voltage 250 V

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





CE

RoHS
2002/95/EC

Halogen free

For further information please consult Brevetti Stendalto's Technical Office

Signal cable
PUR jacket

BC440

BC4400023

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

Nominal voltage 300 V

Complying with UL and CSA for the European and USA market

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	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/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 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 - NEK 606

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

Construction

Conductor:
High-flexible

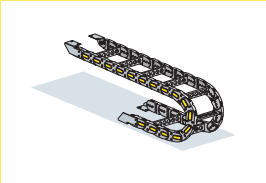
Insulation:
PP

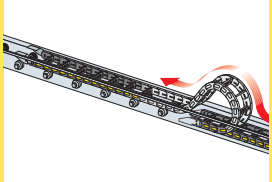
Core ident. :
grey/blue; white/yellow; white/black

Core assembling:
special with soft strip

Shielding:
Tinned copper braid: > 85 %

Jacket material:
PUR, colour green RAL 6018





RoHS 2002/95/EC

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 mm²	mm	mm	kg/km	kg/km	
4400024	(2x2x0,15+2x0,38)C	7,5	75	47	72	PUR
4400025	(2x2x0,15+2x0,38)C	7,2	75	47	72	PVC

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/s² 4400025 = 6 m/s²
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 - NEK 606
Capacity:	Cond./Cond. 100 pF/m, Cond./Shielded 168 pF/m

Construction

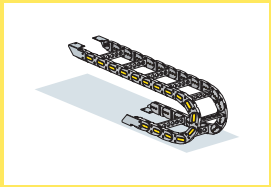
Conductor:	High-flexible
Insulation:	PP
Core ident. :	*green*/yellow pink/blue, red, black
Core assembling:	special with soft strip
Jacket material:	4400024 = PUR, colour green RAL 6018 4400025 = PVC, colour green RAL 6018
Shielding:	Tinned copper braid: > 85 %

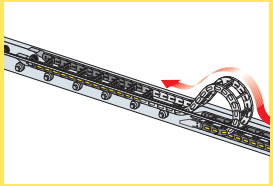
BC4400024
BC4400025

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





CE

RoHS 2002/95/EC

For further information please consult Brevetti Stendalto's Technical Office

Signals connection cable

BC440

BC4400022

Part No.	No. of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4400022	(8x2x0,18)C	7,70	90	55	135

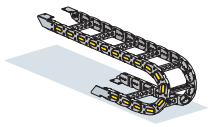
Speed: 240 m/min
Acceleration: 20 m/s²

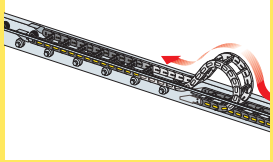
Nominal voltage 250 V

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





RoHS 2002/95/EC

Halogen free

For further information please consult Brevetti Stendalto's Technical Office

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 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 - NEK 606

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 %

Cavi BUS

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	Diameter Ø	Type	Copper weight	Cable weight
	n x mm²	mm		kg/km	kg/km
4500001	(1x2x0,64/2,55)C	7,95	standard	27	75
4500002	(1x2x0,64/2,55)C	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; 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 mm²	mm	mm	kg/km	kg/km
4500003	(1x2x0,64/2,55)C	7,95	80	27	75
4500017	(1x2x0,64/2,55)C	9,80	98	27	90

Technical data

Temperature range:	-30°C to + 80°C		
Speed:	180 m/min		
Acceleration:	7 m/s²		
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; EN 50170; DIN 19245; DESINA

Construction

Conductor:
flexible

Insulation:
Foam skin

Core ident. :
green, red

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

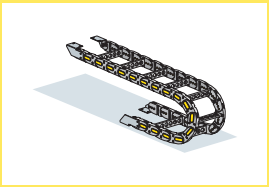
Jacket material:
PUR, colour purple RAL 4001

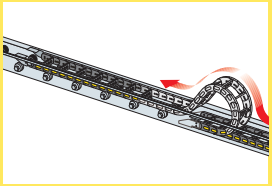
BC4500003
BC4500017

Speed: 180 m/min
Acceleration: 7 m/s²

Impedance: 150 Ohm

Oil resistant PUR jacket





RoHS 2002/95/EC

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	Diameter Ø	Type	Copper weight	Cable weight
	n x mm²	mm		kg/km	kg/km
4500004	(3x2x0,22)C	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; 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 mm²	mm	mm	kg/km	kg/km
4500005	3x2x0,22	8,00	80	30	65

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; DESINA

Construction

Conductor:
high-flexible

Insulation:
polyolefine

Core ident. :
DIN 47100 (see page 54)

Shielding:
Tinned copper braid > 80%

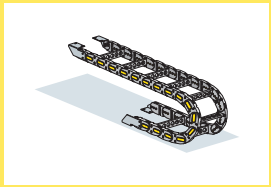
Jacket material:
PUR, colour purple RAL 4001

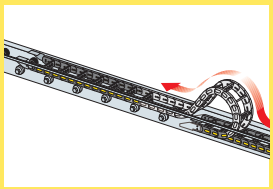
BC4500005

Speed: 180 m/min
Acceleration: 7 m/s²

Impedance: 100 Ohm

Oil resistant PUR jacket





RoHS 2002/95/EC

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	Diameter Ø	Type	Copper weight	Cable weight
	n x mm²	mm		kg/km	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 > 500O 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; DESINA; NEK 606

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 mm²	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

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; DESINA; NEK 606

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%

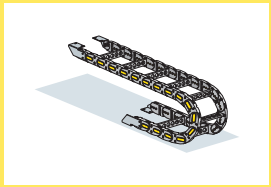
Jacket material:
PUR, colour purple RAL 4001

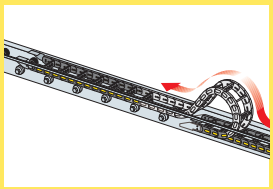
BC4500007
BC4500014

Speed: 180 m/min
Acceleration: 7 m/s²

Impedance: 120 Ohm

Oil resistant PUR jacket





CE

RoHS 2002/95/EC

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	Diameter Ø	Bending radius	Copper weight	Cable weight
		n x mm²	mm	mm	kg/km	kg/km
4500021	5E	(2x2x24 AWG)C	6,00	90	20,0	41
4500022	5E	(4x2x24 AWG)C	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; DESINA; NEK 606

Construction

Conductor:
high-flexible

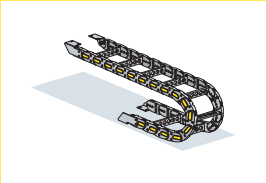
Insulation:
foam skin

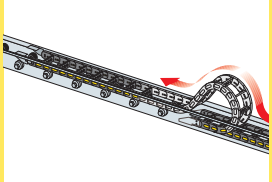
Core ident. :
white/grey; blue/pink; orange/yellow; brown/purple

Core assembling:
special

Shielding :
all/polyester min. 100% + Tinned copper braid min. 75%

Jacket material:
PUR, purple colour RAL 4001





RoHS 2002/95/EC

For further information please consult Brevetti Stendalto's Technical Office

Ethernet Profibus connection cable
PUR jacket CAT 6A

BC450

Part No.	Cat.	of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
		n x mm²	mm	mm	kg/km	kg/km
4500023	6A	4x2x26 AWG	8,8	88	31	75

Technical data

Temperature range:	-30°C to + 80°C
Speed:	240 m/min
Acceleration:	50 m/s²
Impedance:	100 Ohm

Attenuation:

1MHz = ≤ 2,8 db/100 m; 4 MHz = ≤ 5,6 db/100 m; 10 MHz = ≤ 9,0 db/100 m
20 MHz = 12,8 db/100 m

Burning characteristics:

IEC 60332.1.1

Normative references:

UL/CSA; DESINA; NEK 606

Construction

Conductor:

high-flexible

Insulation:

PUR

Core ident. :

white/orange; white/green; white/blu; white/brown

Core assembling:

special

Shielding :

all/polyester min. 100% + Tinned copper braid min. 85%

Jacket material:

PUR, purple colour RAL 4001

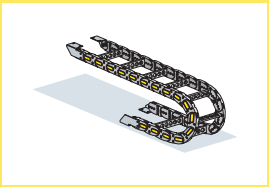
BC4500023

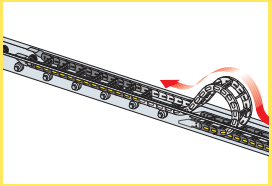
Speed: 240 m/min
Acceleration: 50 m/s²

Impedance: 100 Ohm

Oil resistant PUR jacket

Transmission speed 100 Mbps





RoHS
2002/95/EC

For further information please consult Brevetti Stendalto's Technical Office

Ethernet Profibus connection cable
PUR jacket CAT 7

BC450

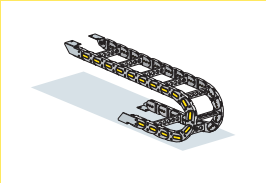
BC4500024

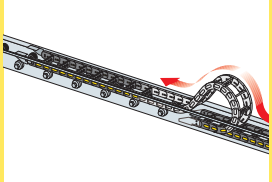
Speed:
for 4500010 = 240 m/min
for 4500013 = 60 m/min

Acceleration:
for 4500010 = 20 m/s^2
for 4500013 = 2 m/s^2

Impedance: 150 Ohm

Part No.	Cat.	of cores x section	Diameter Ø	Bending radius	Copper weight	Cable weight
		n x mm^2	mm	mm	kg/km	kg/km
4500024	7	4x2x26AWG	10	100	75	115





Technical data

Temperature range:	-30°C to + 80°C
Speed:	240 m/min
Acceleration:	50 m/s^2
Impedance:	100 Ohm

Attenuation:
1MHz = ≤ 3 db/100 m; 4 MHz = ≤ 5,6 db/100 m; 10 MHz = ≤ 8,8 db/100 m
20 MHz = 12,4 db/100 m

Burning characteristics:
IEC 60332.1.1

Normative references:
UL/CSA; DESINA; NEK 606

Construction

Conductor:
flexible

Insulation:
PUR

Core ident. :
white/orange; white/green; white/blu; white/brown

Core assembling:
special

Shielding :
all/polyester min. 100% + Tinned copper braid min. 85%

Jacket material:
PUR, purple colour 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 mm²	mm	mm	kg/km	kg/km	
4500010	(1x2x0,64/2,55 +3G0,75)C	9,50	100	50	120	PUR
4500013	(1x2x0,64/2,55 +3G0,75)C	9,70	100	50	125	PVC

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; DESINA; NEK 606

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%

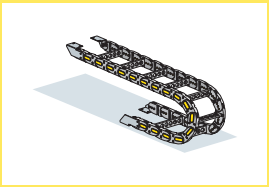
Jacket material:
PUR, purple colour RAL 4001

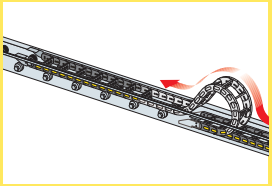
BC4500010
BC4500013

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





CE

RoHS 2002/95/EC

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	Diameter Ø	Bending radius	Copper weight	Cable weight
	n x mm²	mm	mm	kg/km	kg/km
4500011	(1x2x0,34+2x0,5)C	9,1	90	53	110
4500012	(2x2x0,34)C	9,6	100	52	68
4500015	(1x2x0,5)C	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; DESINA

Construction

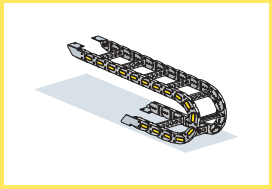
Conductor:
high-flexible

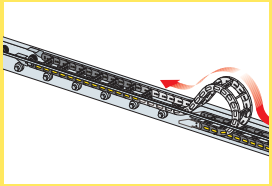
Insulation:
signal: polyolefine
power: PP

Core ident. :
signal DIN 47100
power: red, black

Shielding :
Tinned copper braid > 85%

Jacket material:
PUR, colour purple RAL 4001





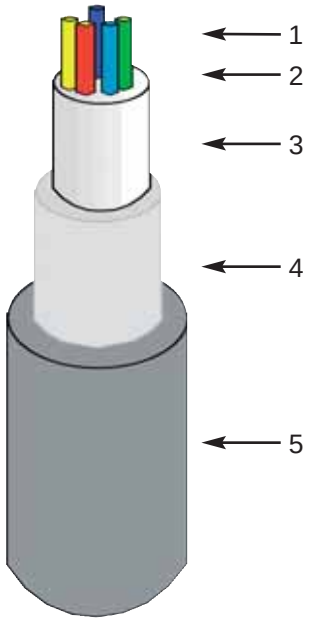
RoHS 2002/95/EC

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
5001862,5/125	18	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
5000850/125	8	50/125	8,5	80	75
5001250/125	12	50/125	8,5	80	75
5001850/125	18	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

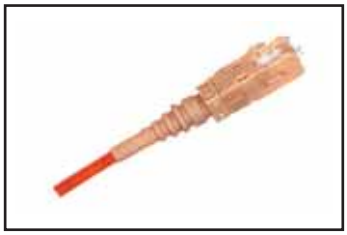
Bandwidth:

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



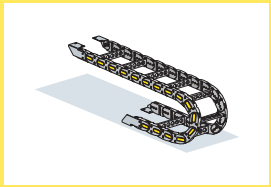
Type FC

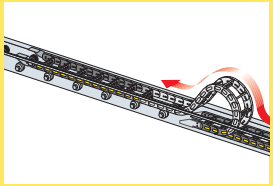
Type SMA

BC500

Speed: 180 m/min

Acceleration: 10 m/s^2





CE

RoHS
2002/95/EC

For further information please consult Brevetti Stendalto's Technical Office

Colour tables

DIW 41700 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 multicores cables

Section mm²	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.

For further information please consult Brevetti Stendalto's Technical Office

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 mm²	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 mm²	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 mm²	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	DIN VDE 0298-4, 2003-08 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 dor 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 exceede by the combined effects of internal current heat and envirromental conditions considered the max temperature ratify 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 appropiate 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

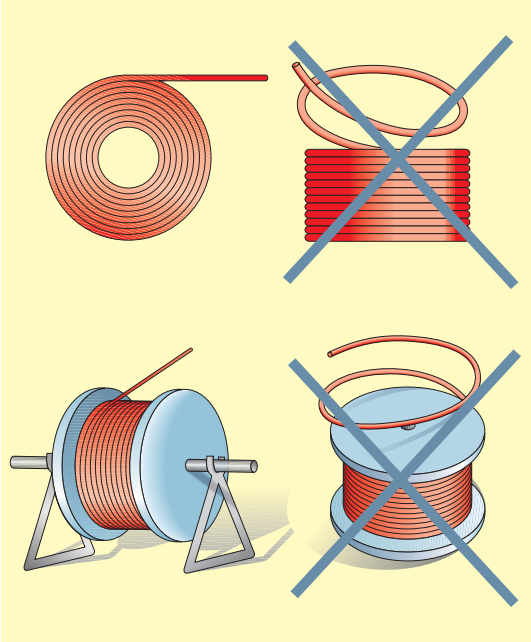
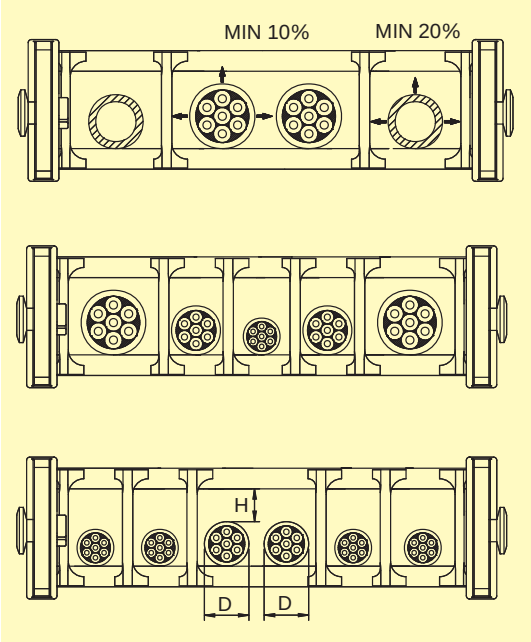


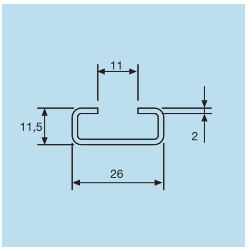
Figure 2



Zinc-plated Steel cable clamps

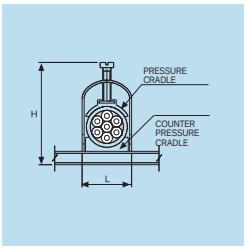
C-profile rail

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



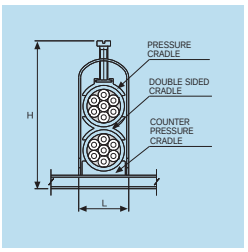
Single clamp in zinc-plated steel with 1 pressure cradle and 1 counter pressure cradle

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



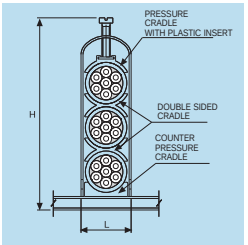
Double clamp in zinc-plated steel set complete with 1 pressure cradle, 1 double sided cradle and 1 counter pressure cradle

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 tigthen 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

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brevetti stendalto
DYNAMIC CABLE PROTECTION

OFFER NUMBER

N. _____

REQUEST PREWIRED CABLE

Date: _____

Company: _____

Dep. _____ **Name:** _____ **e-mail:** _____

Dep. _____ **Surname:** _____

Address: _____ **Zip** _____ **Città/City:** _____

Telephone: _____ **Fax** _____ **State:** _____

Standard Hardness

(indicate the codex of the manufacture: ex. Siemens 6FX-…)

- ☐ **Codice cablaggio:** _____
- ☐ **Viene fornita distinta codici**
- ☐ **Vengono forniti disegni e specifiche tecniche**
- ☐ **Other** _____

Custom Hardness

Supply

- ☐ **Drawing**
- ☐ **Material Documents**
- ☐ **Samples**
- ☐ **Other** _____

Application

- ☐ Indoor
- ☐ Outdoor
- ☐ Flexible use
- ☐ Drag chain
- ☐ Fixed installation
- ☐ Minimum bending radius ____x Ø

Parts-screening

- ☐ No
- ☐ Copper-tinned
- ☐ Copper-blank
- ☐ Copper-wrapping
- ☐ Copper-screen
- ☐ Alum.foil

Halogen free

- ☐ No
- ☐ Yes

Flame retardant

- ☐ IEC 60332.1
- ☐ IEC 60332.2
- ☐ IEC 60332.3

Range of temperatures

- ☐ Temp.- ___°C +___°C
- ☐ For a short time temperature ____°C

Electrical charact

- ☐ Nominal voltage _____
- ☐ Test voltage _____
- ☐ Impedance _____
- ☐ Capacity _____

Approvals

- ☐ VDE
- ☐ UL/CSA
- ☐ Others _____

Tolleranze

- ☐ Standard (STANDARD AS CONDITIONS OF SALE)
- ☐ Specials _____

Side 1

☐ **CONNECTOR** _____

(Indicate manufacturer name and part. n. if not specified please describe it: IP grade, shiela, contact quality)

☐ **OTHER...** _____

(Please indicate other requirements: ex. unsheating/terminations)

Side 2

☐ **CONNECTOR** _____

(Indicate manufacturer name and part. n. if not specified please describe it: IP grade, shiela, contact quality)

☐ **OTHER...** _____

(Please indicate other requirements: ex. unsheating/terminations)

☐ **SPECIAL REQUIREMENTS** _____

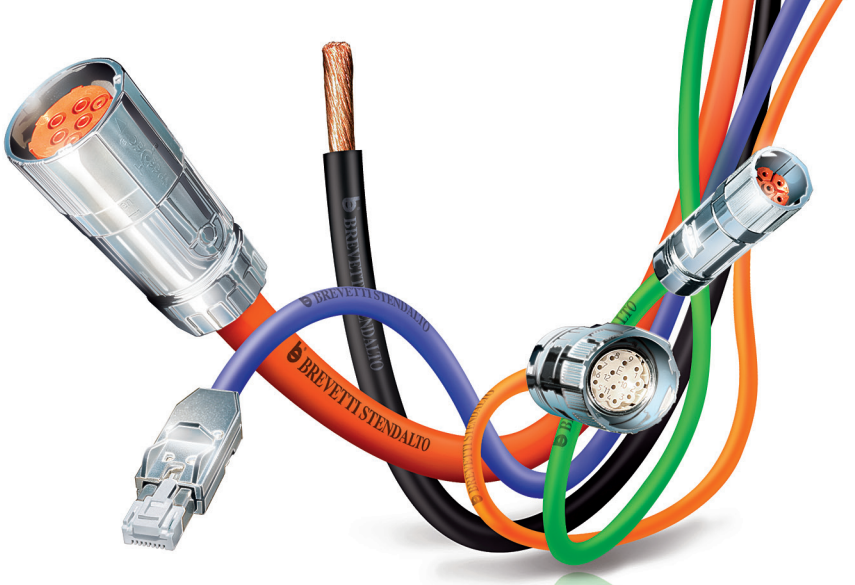
(Please indicate conduits, connectors, cable clamps)

☐ **INDICATE IF ALTERNATIVE BRAND WITH SAME QUALITY** *(Ex. connectors, sheath or other quality materials)*

Test ☐ Standard ☐ Special (indicate standard reference) _____

Stamp and Signature

Printed in April 2016



FLEXIBLE CABLES FOR CABLE CHAINS

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Your local distributor

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