

CABLES FOR AIRPORT EQUIPMENT



Content

	page	
► Who we are	3	
► SAB worldwide	4-5	
► GP 400 SF	6	NEW
► GP 400 QF	7	NEW
► PN 662	8	NEW
► Cable harnessing	8	NEW
► BB 380 Boarding Bridge	9	
► Blueline TA 180 C	10	
► SD 200	11	
► S 200	12	
► SD 200 C	13	
► S 200 C	14	
► SD 200 C TP	15	
► S 910 P	16	
► S 910 CP	17	
► SL 801 C	18	
► SL 802 C	18	
► SL 803 C	19	



WHO WE ARE

A SURVEY

70 years of experience in temperature measurement and control technique as well as in cable production have made a one man business a company with nearly 500 staff members. Our strength is not only the production of standard products but also the development and manufacturing of special products acc. to customers' specifications. Every year we manufacture more than 1500 special products on our customers' request. Every single product is a challenge for our technical team. We at **SAB Bröckskes** see ourselves as manufacturer and service provider - in the sense of real partnership and customer oriented work.

The quality of our products is known in more than 40 countries worldwide. Our customers have tested our products intensively and confirm that they have a longer service life than others. In all product ranges we are certified acc. to ISO 9001:2008. Besides we established an environmental management system for our company acc. to ISO 14001:2004, an occupational health and safety management acc. to NLF/ILO-OSH 2001 and OHSAS 18001:2007 as well as an energy management system acc. to DIN EN ISO 50001:2011. And our future slogan is:

WE GO FORWARD!

FOUNDED:	1947 by Peter Bröckskes sen. an independent, medium-sized company.
CEO:	Peter Bröckskes and Sabine Bröckskes-Wetten
PLANT/LOCATION:	In Viersen (Lower Rhine) 110.000 m ² company site. Own manufacturing from copper conductor to outer sheath. VDE proved burnchamber and laboratory within the company.
EMPLOYEES/WORKERS:	Approx. 420 at the plant in Viersen, 500 worldwide
YEARLY SALES:	Approx. 95 Mio. € worldwide
PRODUCTS:	Special Cables Temperature Measurement Cable Harnessing

CERTIFICATES AND APPROVALS:



Quality management system acc. to ISO 9001:2008
for every manufacturing field

Environmental management system acc. to ISO 14001:2004

Occupational health and safety management
acc. to NLF/ILO-OSH 2001 and OHSAS 18001:2007

Energy management system acc. to DIN EN ISO 50001:2011

WE ARE AT YOUR DISPOSAL, WHENEVER YOU NEED US ...

From our central stock in Viersen-Süchteln or our external stocks, we supply standard lengths as well as special dimensions, often within 24 hours. It is our strength to be at different places at the same time. This shows also our wide product range. Being always ready to deliver our products of constant quality is our strength at **SAB BRÖCKSKES**. Challenge, obligation - but also guarantee at the same time. This is your advantage - we are present whenever you need our assistance.

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E-Mail: mail@alltronixin.com
Internet: <http://www.alltronixindia.com>

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Internet: <http://www.pozitron-ekb.ru>

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Internet: <http://www.pretech.com.sg>

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E-Mail: alex@e-dart.co.il
Internet: <http://www.electrondart.com>

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Phone: +48 602 841 928
E-Mail: krzysztof.pilip@kabel-projekt.com
Internet: <http://www.kabel-projekt.pl>

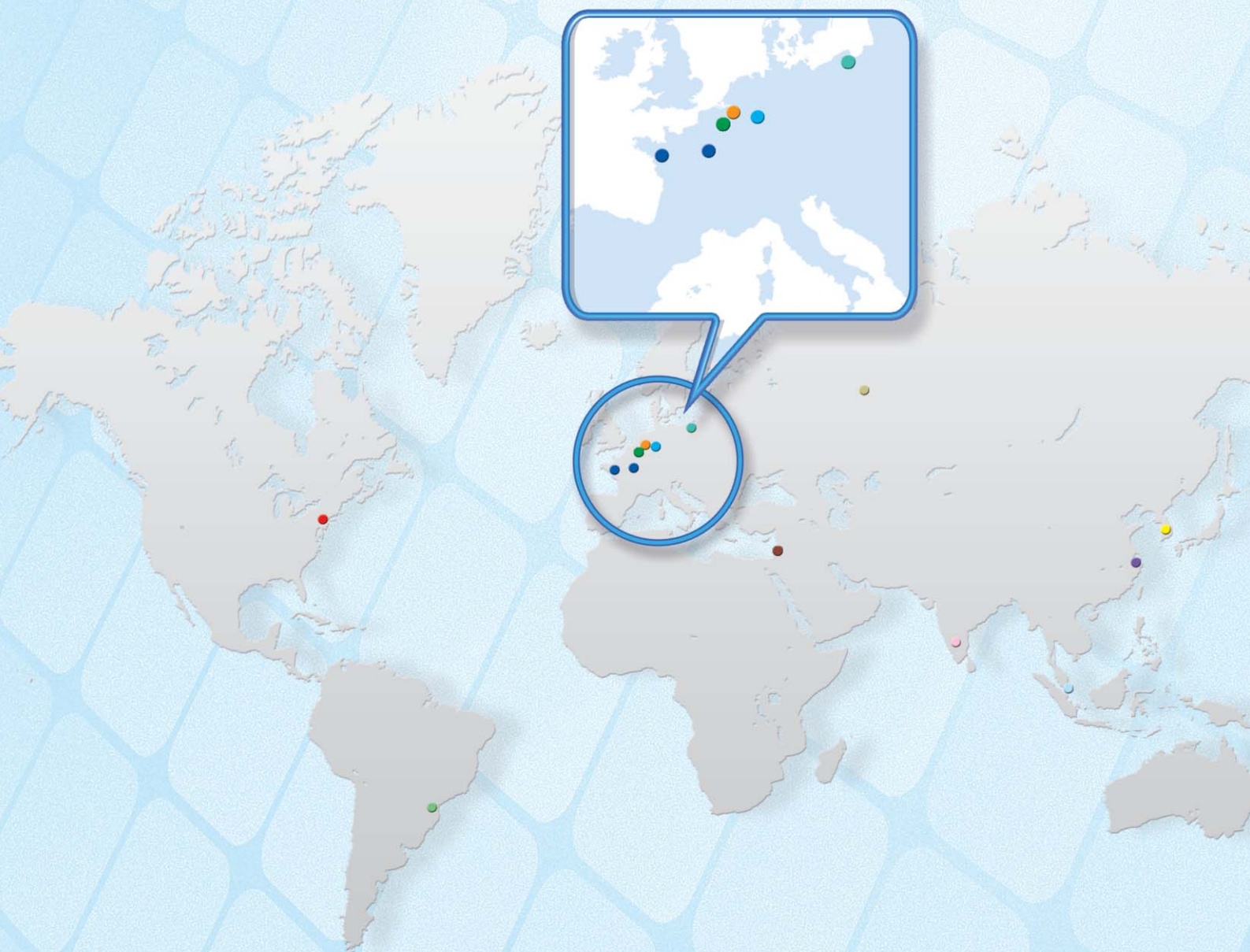
REPRESENTATION TEMPERATURE MEASUREMENT BELGIUM:

Ets. Fabritius SPRL
Av. van Volxem 180
B-1190 Brussels · Belgium

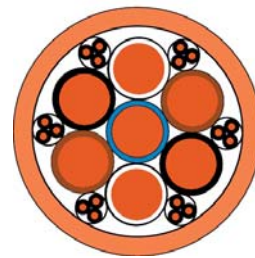
Phone: +32-2-34 33 932
Fax: +32-2-34 45 794
E-Mail: info@fabritius.be
Internet: <http://www.fabritius.be>

WORLDWIDE

WE TAKE THE SHORTEST WAY
FOR INDIVIDUAL SOLUTIONS.



GP 400 SF symmetrical 400 Hz power supply cable with control cores



Marking for GP 400 SF 0390-9437:

SAB BRÖCKSKES · D-VIERSEN · GP 400 SF 7 x 35,0 mm² + 6 x 3 x 1,0 mm² 0390-9437 CE

Construction:

Conductor:	bare copper strands
Insulation:	SABIX®
Colour code:	35,0 mm ² : blue, 2 x white 2 x brown, 2 x black 1,0 mm ² : black cores with consecutive numbers
Stranding:	1,0 mm ² cores twisted to triples
Wrapping:	1,0 mm ² with non-woven tape
Stranding:	all elements together
Wrapping:	non-woven tape
Sheath material:	special PVC
Sheath colour:	orange (RAL 2003)

Technical Data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Testing voltage:	4000 V (50 Hz)
Min. bending radius	
fixed laying:	5 x d
flexible:	10 x d
Temperature range	
fixed laying:	-30/+70 °C
flexible application:	-20/+70 °C
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2
Max. continuously current: (single cable on surfaces 2 x 35,0 mm ²)	at ambient temperature +30°C per phase (2 x 35,0 mm ²) is acc. to VDE 0298-4, 175 A
Mutual capacitance:	in acc. to VDE 0472 part 504 test method A (adjacent cores) @ 1 kHz: 35,0 mm ² : approx. 90 nF/km 1,0 mm ² : approx. 50 nF/km, in acc. to VDE 0472 part 504 test method B (core/rest) @ 1 kHz: 35,0 mm ² : approx. 165 - 185 nF/km 1,0 mm ² : approx. 80 nF/km
Inductance:	based on VDE 0472 part 504 test method A (adjacent cores) @ 1 kHz: 35,0 mm ² : approx. 0,54 mH/km 1,0 mm ² : approx. 0,71 mH/km
Voltage loss:	2,31 V @ an application length of 25 m and power of 90 kW

item no.	no. of cores x cross section n x mm ²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	DC resistance at 20°C max. Ω/km
03909437	7 x 35,0 + 6 x 3 x 1,0	42,2	2524,8	3305	1,00 mm ² : 19,5 35,0 mm ² : 0,554



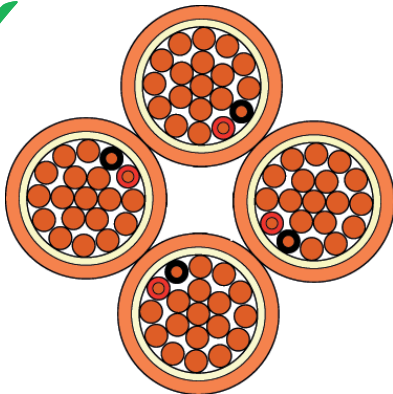
Suitable for use in fixed or flexible applications
with low or medium mechanical stress.

The used materials and the special construction
makes the cable
very flexible and smooth,
for easy handling as power supply cable.

Available as harnessed
solution on demand.

For example,
one side with connector
assembly and second side
with ring cable lugs.

GP 400 QF open stranded 400 Hz power supply cable with integrated control cores



Marking for GP 400 QF 0390-9386:
SAB BRÖCKSKES · D-VIERSEN · GP 400 QF 4 x (70,0mm² + 2x1,0mm²) 0390-9386 <core identifier> CE <consecutive meters on core N>

Construction:

Conductor:	tinned copper strands
Insulation:	70,0 mm ² : PUR 1,0 mm ² : TPE
Colour code:	70,0 mm ² : natural coloured 1,0 mm ² : black, red (2 x 1,0 mm ²) black, red, green, yellow (4 x 1,0 mm ²)
Stranding:	pairs of cores 1,0 mm ² stranded within the conductor of a core 70,0 mm ²
Sheath material:	PUR
Sheath colour:	orange (RAL 2004)
Stranding:	cores 70,0 mm ² twisted together

Technical Data:

Nominal voltage:	Uo/U 115/200 V
Testing voltage:	600 V
Min. bending radius <i>fixed laying:</i> <i>flexible:</i>	5 x d 10 x d
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	-40/+90 °C -40/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2
Current carrying capacity:	207 A, max. 30°C, symmetric 3phase system, N-core carrying no current
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	DC resistance at 20°C max. Ω/km
0390-9386	4 x (70,0 + 2 x 1,0)	43,5	2818,6	3271	1,00 mm ² : 20,0 70,0 mm ² : 0,277
0390-xxxx	4 x (70,0 + 4 x 1,0)	44,0	2860,8	3371	1,00 mm ² : 20,0 70,0 mm ² : 0,277



Suitable for use in flexible applications
with extreme operating conditions
under mechanical stress and climatic conditions.

For example in under-floor cable dispensers,
mobile generators or
suspended under boarding bridges.



As harnessed solution
with LPA connectors available.

Other connectors on request.

For example,
one side with connector assembly
and second side with ring cable lugs.



On request every harness
is supplied with an internal
test report (100% testing).

Every harness
is individually packaged
and protected.

PN 662 Industrial Ethernet Cable CAT 5 - Profinet type B, for flexible applications



Marking for S PN 662:

SAB BRÖCKSKES · D-VIERSEN · ETHERNETLEITUNG 2x2x28AWG 06629009 CE

Construction:

Conductor:	silver coated copper strands
Insulation:	FEP
Colour code:	white, yellow, blue, orange
Stranding:	twisted as quad
Wrapping:	non-woven tape
Wrapping:	metal coated tape
Screen:	silver coated copper wrapping
Sheath material:	FEP
Sheath colour:	orange (RAL 2003)

Technical data:

Operating voltage:	max. 150 V
Testing voltage:	core/core: 1500 V core/screen: 1200 V
Min. bending radius	
fixed laying:	5 x d
flexible:	10 x d
Temperature range	
fixed laying:	-90/+180 °C
flexible application:	-50/+180 °C
Hydraulic fluids resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	type	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	DC resistance at 20°C acc. to VDE 0812 max. Ω/km
06629015	PN 662	2,9	9,8	15	222,2



Suitable for the use as Ethernet cable referring to EN 50288-2-2 (Cat. 5 acc. EN 50173): characteristic impedance of matching cores white/blue and yellow/orange 100 ± 10 Ω

HARNESSING FOR AIRPORT EQUIPMENT

Cable harnessing Ethernet cable on both side 4-pole Lemo male connector



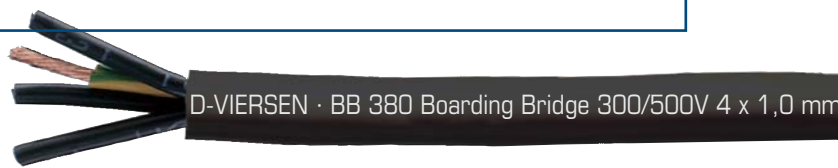
Cable:

Ethernet cable:	2 x 2 x 28 AWG (L 0662-9009)
Cable length:	2,50 m (S 0662-4001) 5,00 m (S 0662-4002) 12,00 m (S 0662-4003) 25,00 m (S 0662-4004) 50,00 m (S 0662-4005) 100,00 m (S 0662-4006)

Harnessing:

Side 1	
Lemo connector:	FGG.00.304.CYCD27Z 4-pole with bend relief grey
Pin configuration:	pin 1 = white pin 2 = blue pin 3 = yellow pin 4 = orange
Shield:	connected on housing
Connector:	Lemo Type FGG.00.304.CYCD27Z 4-pole
Side 2	
Lemo connector:	FGG.00.304.CYCD27Z 4-pole with bend relief grey
Pin configuration:	pin 1 = yellow pin 2 = orange pin 3 = white pin 4 = blue
Shield:	connected on housing
Connector:	Lemo Type FGG.00.304.CYCD27Z 4-pole

BB 380 Boarding Bridge Cables for the flexible application in passenger bridges



D-VIERSEN · BB 380 Boarding Bridge 300/500V 4 x 1,0 mm²

Marking for BB 380 Boarding Bridge 53800410:
SAB BRÖCKSKES · D-VIERSEN · BB 380 Boarding Bridge 300/500V 4 x 1,0 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	special SABIX®
Colour code:	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
Stranding:	in layers
Wrapping:	non-woven tape
Sheath material:	PUR
Sheath colour:	black (RAL 9005)

Outstanding features:

- halogen-free
- oil resistant
- weather resistant
- sunlight resistant

Technical data:

Nominal voltage:	up to 1,00 mm²: U _o /U 300/500 V from 1,50 mm²: U _o /U 0,6/1 kV
Testing voltage U:	300/500 V: 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 0,6/1 kV: 4000 V acc. to DIN VDE 0281 part 2 + HD 21.2
Min. bending radius <i>fixed laying:</i> <i>flexible:</i>	 4 x d 7,5 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	 -40/+90 °C -30/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Flexibility:	very good
Weather resistance:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union



**For
installation in
passenger
bridges**



**Screened version
on request**

300/500 V

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
53800205	2 x 0,50	0,21	5,1	9,6	30
53800305	3 x 0,50	0,21	5,4	14,4	38
53800405	4 x 0,50	0,21	5,8	19,2	46
53800505	5 x 0,50	0,21	6,3	24,0	55
53800705	7 x 0,50	0,21	7,3	33,6	74
53801205	12 x 0,50	0,21	9,1	57,6	116
53800207	2 x 0,75	0,21	5,7	14,4	39
53800307	3 x 0,75	0,21	6,0	21,6	49
53800415	4 x 0,75	0,21	6,5	28,8	60
53800507	5 x 0,75	0,21	7,1	36,0	73
53800707	7 x 0,75	0,21	8,3	50,4	99
53801207	12 x 0,75	0,21	10,3	86,4	159
53800210	2 x 1,00	0,21	5,9	19,2	44
53800310	3 x 1,00	0,21	6,2	28,8	56
53800410	4 x 1,00	0,21	6,7	38,4	70
53800510	5 x 1,00	0,21	7,4	48,0	86
53800710	7 x 1,00	0,21	8,6	67,2	116
53801210	12 x 1,00	0,21	10,7	115,2	187

0,6/1 kV

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
53800215	2 x 1,50	0,26	8,1	28,8	78
53800315	3 x 1,50	0,26	8,6	43,2	99
53800415	4 x 1,50	0,26	9,5	57,6	126
53800515	5 x 1,50	0,26	10,4	72,0	153
53800225	2 x 2,50	0,26	9,5	48,0	112
53800325	3 x 2,50	0,26	10,0	72,0	146
53800425	4 x 2,50	0,26	10,9	96,0	179
53800525	5 x 2,50	0,26	12,2	120,0	224
53800240	2 x 4,00	0,31	10,7	76,8	152
53800340	3 x 4,00	0,31	11,5	115,2	202
53800440	4 x 4,00	0,31	12,6	153,6	254
53800540	5 x 4,00	0,31	14,2	192,0	322
53800260	2 x 6,00	0,31	11,9	115,2	202
53800360	3 x 6,00	0,31	12,6	172,8	266
53800460	4 x 6,00	0,31	14,2	230,4	348
53800560	5 x 6,00	0,31	15,6	288,0	426
53800261	2 x 10,00	0,41	15,9	192,0	331
53800361	3 x 10,00	0,41	16,8	288,0	451
53800461	4 x 10,00	0,41	18,6	384,0	566
53800561	5 x 10,00	0,41	20,7	480,0	707

Other dimensions and colours are possible on request.

BlueLine TA 180 C flexible FEP-Connection cables with overall copper screen



Marking for BlueLine TA 180 C 37530715: SAB BRÖCKSKES · D-VIERSEN ·

BL TA 180 C 7 x 1,5 mm² - IEC 60332-3-22 - 300/500V DNV-GL AWM Style 21618 150°C 600V AWM I/II A/B 150°C 600V FT1 FT2 CE

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	FEP
Colour code:	black conductors with consecutive numbers acc. to EN 50334, without green-yellow earth wire
Stranding:	in layers
Inner sheath:	Besilen®
Screen:	tinned copper braiding
Sheath material:	FEP
Sheath colour:	black (RAL 9005)

Outstanding features:

- resistant against hydraulic fluids
- no flame propagation
- flame retardant and self-extinguishing
- good EMC characteristics*
- oil and fuel resistant
- good chemical resistance
- high cold and heat resistance
- asbestos-free
- approval:
Det Norske Veritas - Germanischer Lloyd
UL/cUL recognized
- EAC approval

* Copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

Nominal voltage U₀/U:	DIN VDE: 300/500 V UL/cUL: 600 V
Testing voltage:	2000 V (AC)
Min. bending radius <i>fixed laying</i> <i>flexible application:</i>	5 x d 10 x d
Radiation resistance:	1 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	DIN VDE -55/+180 °C -55/+180 °C UL/cUL: up to +150 °C
Fire performance:	no flame propagation acc. to IEC 60332-3-22 + DIN EN 60332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + DIN EN 60332-1-2
Chem. resistance:	very good against acids, halogens, bases, chlorinated solvents as well as organic and inorganic compounds
Hydraulic fluids resistance:	very good
Oil and fuel resistance:	very good
Flexibility:	good
Halogen-free:	not fulfilled
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
37530207	2 x 0,75	5,7	32,9	63
37530307	3 x 0,75	6,0	40,2	68
37530407	4 x 0,75	6,2	50,3	81
37530507	5 x 0,75	7,1	59,6	99
37530607	6 x 0,75	7,7	67,0	116
37530707	7 x 0,75	7,7	74,2	121
37530807	8 x 0,75	8,9	86,7	152
37531207	12 x 0,75	10,2	134,3	203
37531607	16 x 0,75	11,4	169,8	261
37532007	20 x 0,75	12,8	229,5	334
37530210	2 x 1,00	5,9	37,8	64
37530215	2 x 1,50	6,6	50,4	81
37530315	3 x 1,50	6,9	64,6	97
37530515	5 x 1,50	8,2	98,2	145
37530615	6 x 1,50	9,0	115,5	171
37530715	7 x 1,50	9,0	129,9	182
37531215	12 x 1,50	12,0	232,5	309
37530220	2 x 2,00	7,5	62,2	107
37530320	3 x 2,00	8,1	83,8	130

Other dimensions and colours are possible on request.

Possible on request:



- without overall copper screen
- alternative colour code and sheath colour

SD 200 Extremely flexible TPE/PUR data cable with coloured cores for continuous movement



Marking for SD 200 07742501:
SAB BRÖCKSKES · D-VIERSEN · SD 200 25 x 0,14 mm² CE

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Colour code:	with reference to DIN 47100
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Sheath material:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	grey (RAL 7032)

Outstanding features:

- **labs uncritical**
(labs = enamel moisturing interfering substances)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **high abrasion resistance**
- **min. bending radius**
- **small outer diameter**
- **EAC approval**

Technical data:

Peak operating voltage:	max. 350 V acc. to DIN VDE
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509
Min. bending radius <i>continuously flexible:</i>	7,5 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	-50/+90 °C -40/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Oil resistance:	very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc..
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
07740201	2 x 0,14	0,11	3,2	2,7	11
07740301	3 x 0,14	0,11	3,3	4,0	13
07740401	4 x 0,14	0,11	3,6	5,4	15
07740501	5 x 0,14	0,11	3,8	6,7	18
07740701	7 x 0,14	0,11	4,4	9,4	24
07741001	10 x 0,14	0,11	5,1	13,4	30
07741201	12 x 0,14	0,11	5,2	16,1	34
07741401	14 x 0,14	0,11	5,5	18,8	38
07741801	18 x 0,14	0,11	6,0	24,2	48
07742501	25 x 0,14	0,11	7,1	33,6	63
07743201	32 x 0,14	0,11	7,6	43,0	78
07740202	2 x 0,25	0,11	3,5	4,8	15
07740302	3 x 0,25	0,11	3,7	7,2	18
07740402	4 x 0,25	0,11	3,9	9,6	21
07740502	5 x 0,25	0,11	4,2	12,0	25
07740702	7 x 0,25	0,11	4,9	16,8	34
07741002	10 x 0,25	0,11	5,7	24,0	43

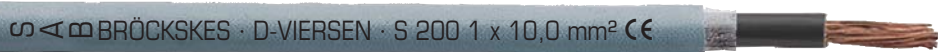
item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
07741202	12 x 0,25	0,11	5,8	28,8	49
07741402	14 x 0,25	0,11	6,1	33,6	56
07741802	18 x 0,25	0,11	6,8	43,2	71
07742502	25 x 0,25	0,11	8,1	60,0	94
07743202	32 x 0,25	0,11	8,8	76,8	120
07740203	2 x 0,34	0,11	3,7	6,5	17
07740303	3 x 0,34	0,11	3,9	9,8	21
07740403	4 x 0,34	0,11	4,2	13,1	25
07740503	5 x 0,34	0,11	4,5	16,3	30
07740703	7 x 0,34	0,11	5,2	22,8	41
07741003	10 x 0,34	0,11	6,1	32,6	52
07741203	12 x 0,34	0,11	6,3	39,2	60
07741403	14 x 0,34	0,11	6,6	45,7	69
07741803	18 x 0,34	0,11	7,3	58,8	87
07742503	25 x 0,34	0,11	8,9	81,6	119
07743203	32 x 0,34	0,11	9,5	104,4	149

Other dimensions and colours are possible on request.



**UL/CSA-Typ:
SD 980 P**

S 200 Extremely flexible TPE/PUR control cable with numbered cores for continuous movement



Marking for S 200 07440161: SAB BRÖCKSKES · D-VIERSEN · S 200 1 x 10,0 mm² CE



Marking for S 200 07741215: SAB BRÖCKSKES · D-VIERSEN · S 200 12 x 1,5 mm² CE



UL/CSA-Typ:
S 980 P

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Colour code from 2 conductors	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Sheath material:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	grey (RAL 7000)

Outstanding features:

- **labs uncritical**
(labs = enamel moisturing interfering substances)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **high abrasion resistance**
- **min. bending radius**
- **small outer diameter**
- **EAC approval**

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2
Min. bending radius continuously flexible:	7,5 x d
Radiation resistance:	5 x 10 ⁶ cJ/kg
Temperature range fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Oil resistance:	very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc..
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Also available as hybrid cable for example

3G1,0 + 16 x 0,34 mm²

3G1,0 + 8 x 0,34 mm²

1G0,5 + 4 x 0,34 mm²

Peak operating voltage of data conductors: max. 500 V

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
07740205	2 x 0,50	0,16	4,9	9,6	27
07740305	3 x 0,50	0,16	5,1	14,4	34
07740405	4 x 0,50	0,16	5,5	19,2	41
07740505	5 x 0,50	0,16	6,0	24,0	50
07740705	7 x 0,50	0,16	6,9	33,6	67
07741205	12 x 0,50	0,16	8,3	57,6	98
07741805	18 x 0,50	0,16	9,9	86,4	145
07742505	25 x 0,50	0,16	11,9	120,0	196
07740207	2 x 0,75	0,16	5,4	14,4	35
07740307	3 x 0,75	0,16	5,7	21,6	45
07740407	4 x 0,75	0,16	6,1	28,8	54
07740507	5 x 0,75	0,16	6,7	36,0	66
07740707	7 x 0,75	0,16	7,7	50,4	90
07741207	12 x 0,75	0,16	9,6	86,4	137
07741807	18 x 0,75	0,16	11,3	129,6	201
07742507	25 x 0,75	0,16	13,9	180,0	277
07740210	2 x 1,00	0,16	5,8	19,2	43
07740310	3 x 1,00	0,16	6,1	28,8	55
07740410	4 x 1,00	0,16	6,6	38,4	67
07740510	5 x 1,00	0,16	7,2	48,0	83
07740710	7 x 1,00	0,16	8,4	67,2	114
07741210	12 x 1,00	0,16	10,4	115,2	173
07741810	18 x 1,00	0,16	12,3	172,8	256
07742510	25 x 1,00	0,16	15,1	240,0	353
07740115	1 x 1,50	0,16	4,0	14,4	25
07740215	2 x 1,50	0,16	6,4	28,8	55
07740315	3 x 1,50	0,16	6,7	43,2	73
07740415	4 x 1,50	0,16	7,3	57,6	91
07740515	5 x 1,50	0,16	8,0	72,0	112
07740715	7 x 1,50	0,16	9,6	100,8	157
07741215	12 x 1,50	0,16	11,9	172,8	243
07741815	18 x 1,50	0,16	14,2	259,2	364
07742515	25 x 1,50	0,16	17,1	360,0	493
07740125	1 x 2,50	0,16	4,6	24,0	37
07740225	2 x 2,50	0,16	8,0	48,0	86
07740325	3 x 2,50	0,16	8,5	72,0	116
07740425	4 x 2,50	0,16	9,4	96,0	147

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
07740525	5 x 2,50	0,16	10,4	120,0	182
07740725	7 x 2,50	0,16	12,4	168,0	255
07741225	12 x 2,50	0,16	15,8	288,0	405
07741825	18 x 2,50	0,16	18,6	432,0	596
07742525	25 x 2,50	0,16	22,7	600,0	814
07740140	1 x 4,00	0,16	5,4	38,4	54
07740240	2 x 4,00	0,16	9,3	76,8	127
07740340	3 x 4,00	0,16	9,8	115,2	169
07740440	4 x 4,00	0,16	10,8	153,6	210
07740540	5 x 4,00	0,16	12,1	192,0	272
07740740	7 x 4,00	0,16	14,6	268,8	389
07740160	1 x 6,00	0,21	6,1	57,6	76
07740260	2 x 6,00	0,21	10,8	115,2	183
07740360	3 x 6,00	0,21	11,7	172,8	246
07740460	4 x 6,00	0,21	12,8	230,4	310
07740560	5 x 6,00	0,21	14,5	288,0	400
07740760	7 x 6,00	0,21	17,3	403,2	561
07740161	1 x 10,0	0,21	7,1	96,0	117
07740361	3 x 10,0	0,21	14,5	288,0	407
07740461	4 x 10,0	0,21	15,8	384,0	506
07740561	5 x 10,0	0,21	17,2	480,0	627
07740162	1 x 16,0	0,21	8,3	153,6	177
07740362	3 x 16,0	0,21	17,2	460,8	604
07740462	4 x 16,0	0,21	19,0	614,4	780
07740163	1 x 25,0	0,21	9,9	240,0	270
07740363	3 x 25,0	0,21	20,6	720,0	920
07740463	4 x 25,0	0,21	22,8	960,0	1182
07740164	1 x 35,0	0,21	11,5	336,0	362
07740464	4 x 35,0	0,21	26,4	1344,0	1598
07740165	1 x 50,0	0,31	14,0	480,0	531
07740166	1 x 70,0	0,31	16,7	672,0	744
07740167	1 x 95,0	0,31	20,5	912,0	1020
07740168	1 x 120,0	0,31	21,5	1152,0	1244
07740169	1 x 150,0	0,31	24,6	1440,0	1584
07740170	1 x 185,0	0,41	26,7	1776,0	1920
07740171	1 x 240,0	0,41	30,1	2304,0	2458

Other dimensions and colours are possible on request.

SD 200 C Continuously flexible TPE/PUR data cable with coloured cores and overall copper screen



Marking for SD 200 C 07842501:
SAB BRÖCKSKES · D-VIERSEN · SD 200 C 25 x 0,14 mm² CE

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Colour code:	with reference to DIN 47100
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	grey (RAL 7032)

Outstanding features:

- **labs uncritical**
(labs = enamel moisturing interfering substances)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**
- **EAC approval**

Technical data:

Peak operating voltage:	max. 350 V acc. to DIN VDE
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509 core/screen 1200 V
Min. bending radius <i>continuously flexible:</i>	7,5 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	-50/+90 °C -40/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Oil resistance:	very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
07840201	2 x 0,14	0,11	3,7	11,6	18
07840301	3 x 0,14	0,11	3,8	13,0	20
07840401	4 x 0,14	0,11	4,1	16,2	24
07840501	5 x 0,14	0,11	4,3	17,7	27
07840701	7 x 0,14	0,11	4,9	22,7	35
07841201	12 x 0,14	0,11	5,9	43,5	54
07841801	18 x 0,14	0,11	6,7	53,2	70
07842501	25 x 0,14	0,11	7,8	71,2	90
07843201	32 x 0,14	0,11	8,5	81,2	104
07840202	2 x 0,25	0,11	4,0	15,6	23
07840302	3 x 0,25	0,11	4,2	18,1	26
07840402	4 x 0,25	0,11	4,4	20,7	29
07840502	5 x 0,25	0,11	4,7	25,1	35
07840702	7 x 0,25	0,11	5,4	32,5	46
07841202	12 x 0,25	0,11	6,6	57,6	71
07841802	18 x 0,25	0,11	7,5	75,6	95
07842502	25 x 0,25	0,11	9,0	100,8	127
07843202	32 x 0,25	0,11	9,5	126,6	156
07840203	2 x 0,34	0,11	4,2	17,5	26
07840303	3 x 0,34	0,11	4,4	20,4	29
07840403	4 x 0,34	0,11	4,7	26,2	35
07840503	5 x 0,34	0,11	5,0	29,7	41

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
07840703	7 x 0,34	0,11	5,7	38,9	54
07841203	12 x 0,34	0,11	6,7	58,8	75
07841803	18 x 0,34	0,11	7,8	82,5	105
07842503	25 x 0,34	0,11	9,4	110,7	141
07843203	32 x 0,34	0,11	10,2	152,1	182
07840250	2 x 0,50	0,11	4,8	23,5	32
07840350	3 x 0,50	0,11	5,0	28,4	39
07840450	4 x 0,50	0,11	5,4	35,1	47
07840550	5 x 0,50	0,11	5,8	40,1	55
07840750	7 x 0,50	0,11	6,7	53,3	74
07841250	12 x 0,50	0,11	8,0	81,4	104
07841850	18 x 0,50	0,11	9,5	115,6	152
07842550	25 x 0,50	0,11	11,8	174,4	219
07840275	2 x 0,75	0,11	5,4	30,3	41
07840375	3 x 0,75	0,11	5,7	37,6	50
07840475	4 x 0,75	0,11	6,1	46,5	60
07840575	5 x 0,75	0,11	6,6	55,6	73
07840775	7 x 0,75	0,11	7,7	74,1	99
07841275	12 x 0,75	0,11	9,5	115,6	146
07841875	18 x 0,75	0,11	11,6	183,9	231
07842575	25 x 0,75	0,11	14,3	266,0	326

Other dimensions and colours are possible on request.



**UL/CSA-Typ:
SD 980 CP**

S 200 C Continuously flexible TPE/PUR control cable with numbered cores and overall copper screen



Marking for S 200 C 07840161: SAB BRÖCKSKES · D-VIERSEN · S 200 C 1 x 10,0 mm² CE



Marking for S 200 C 07840515: SAB BRÖCKSKES · D-VIERSEN · S 200 C 5 x 1,5 mm² CE



UL/CSA-Typ:
S 980 CP

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Colour code from 2 conductors	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
Stranding:	specially adjusted layering with non-woven tape over each layer
Inner sheath:	SABIX®
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	grey (RAL 7000)

Outstanding features:

- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- halogen-free
- travel > 10 m is possible
- good EMC characteristics
- high abrasion resistance
- min. bending radius
- small outer diameter
- EAC approval

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V
Min. bending radius continuously flexible:	7,5 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Oil resistance:	very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Also available as hybrid cable for example

3G1,0 + 16 x 0,34 mm²

3G1,0 + 8 x 0,34 mm²

1G0,5 + 4 x 0,34 mm²

Peak operating voltage of data conductors: max. 500 V

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
07840205	2 x 0,50	0,16	6,8	38,4	51
07840305	3 x 0,50	0,16	7,0	43,6	58
07840405	4 x 0,50	0,16	7,4	51,1	67
07840505	5 x 0,50	0,16	7,9	61,5	77
07840705	7 x 0,50	0,16	9,0	74,1	101
07841205	12 x 0,50	0,16	10,6	108,2	151
07841805	18 x 0,50	0,16	12,2	143,0	203
07842505	25 x 0,50	0,16	14,8	217,0	299
07840207	2 x 0,75	0,16	7,3	46,3	59
07840307	3 x 0,75	0,16	7,6	54,1	70
07840407	4 x 0,75	0,16	8,0	64,0	82
07840507	5 x 0,75	0,16	8,8	74,3	98
07840707	7 x 0,75	0,16	9,8	92,3	123
07841207	12 x 0,75	0,16	11,9	142,4	192
07841807	18 x 0,75	0,16	14,2	215,3	294
07842507	25 x 0,75	0,16	16,6	289,7	386
07840210	2 x 1,00	0,16	7,7	56,5	68
07840310	3 x 1,00	0,16	8,0	66,4	82
07840410	4 x 1,00	0,16	8,5	77,3	97
07840510	5 x 1,00	0,16	9,3	89,0	114
07840710	7 x 1,00	0,16	10,7	117,9	159
07841210	12 x 1,00	0,16	12,8	174,9	239
07841810	18 x 1,00	0,16	15,2	270,2	353
07842510	25 x 1,00	0,16	18,4	367,5	481
07840115	1 x 1,50	0,16	4,6	24,8	35
07840215	2 x 1,50	0,16	8,3	66,8	82
07840315	3 x 1,50	0,16	8,8	81,5	104
07840415	4 x 1,50	0,16	9,4	101,2	125
07840515	5 x 1,50	0,16	10,1	122,2	145
07840715	7 x 1,50	0,16	11,9	156,8	206
07841215	12 x 1,50	0,16	14,7	269,7	341
07841815	18 x 1,50	0,16	16,9	369,2	465
07842515	25 x 1,50	0,16	20,4	493,4	633
07840125	1 x 2,50	0,16	5,3	38,0	49
07840225	2 x 2,50	0,16	9,9	98,2	117
07840325	3 x 2,50	0,16	10,6	122,8	159
07840425	4 x 2,50	0,16	11,5	150,1	197
07840525	5 x 2,50	0,16	12,6	179,6	236

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
07840725	7 x 2,50	0,16	15,0	265,2	335
07841225	12 x 2,50	0,16	18,5	417,1	525
07841825	18 x 2,50	0,16	21,8	571,4	739
07842525	25 x 2,50	0,16	26,0	780,8	1004
07840140	1 x 4,00	0,16	6,0	54,4	68
07840240	2 x 4,00	0,16	11,9	132,8	179
07840340	3 x 4,00	0,16	12,1	172,9	224
07840440	4 x 4,00	0,16	13,7	216,5	287
07840540	5 x 4,00	0,16	15,0	289,2	357
07840740	7 x 4,00	0,16	18,0	396,3	486
07840160	1 x 6,00	0,21	6,6	75,3	90
07840260	2 x 6,00	0,21	13,7	182,6	251
07840360	3 x 6,00	0,21	14,6	258,8	334
07840460	4 x 6,00	0,21	15,9	328,3	414
07840560	5 x 6,00	0,21	17,2	398,4	485
07840760	7 x 6,00	0,21	20,6	537,3	615
07840161	1 x 10,0	0,21	7,7	117,5	135
07840361	3 x 10,0	0,21	17,4	392,9	502
07840461	4 x 10,0	0,21	18,7	507,4	624
07840561	5 x 10,0	0,21	20,5	615,5	731
07840162	1 x 16,0	0,21	9,1	179,9	206
07840362	3 x 16,0	0,21	20,7	598,4	724
07840462	4 x 16,0	0,21	22,5	758,2	915
07840163	1 x 25,0	0,21	10,7	287,7	306
07840363	3 x 25,0	0,21	23,9	898,2	1047
07840463	4 x 25,0	0,21	25,8	1148,0	1312
07840164	1 x 35,0	0,21	12,5	390,6	408
07840464	4 x 35,0	0,21	30,1	1546,4	1765
07840165	1 x 50,0	0,31	14,9	577,2	601
07840166	1 x 70,0	0,31	17,7	783,1	826
07840167	1 x 95,0	0,31	21,5	1051,2	1122
07840168	1 x 120,0	0,31	22,7	1293,1	1356
07840169	1 x 150,0	0,31	26,2	1611,0	1712
07840170	1 x 185,0	0,41	27,9	1952,4	2059
07840171	1 x 240,0	0,41	31,3	2507,0	2617

Other dimensions and colours are possible on request.

SD 200 C TP Continuously flexible paired TPE/PUR data cable with coloured cores and overall copper screen



Marking for SD 200 C TP 07890350:
SAB BRÖCKSKES · D-VIERSEN · SD 200 C TP 3 x 2 x 0,5 mm² CE

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Colour code:	with reference to DIN 47100
Stranding:	cores twisted to pairs, pairs twisted in specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	grey (RAL 7000)

Technical data:

Peak operating voltage:	max. 350 V acc. to DIN VDE
Testing voltage:	1500 V acc. to DIN VDE 0472 part 509 core/screen 1200 V
Min. bending radius <i>continuously flexible:</i>	7,5 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	-50/+90 °C -40/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Oil resistance:	very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc..
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:

- **labs uncritical**
(labs = enamel moisturing interfering substances)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**
- **EAC approval**

item no.	no. of pairs x cross section n x 2 x mm²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
07890214	2 x 2 x 0,14	0,11	4,6	17,4	28
07890314	3 x 2 x 0,14	0,11	5,1	20,2	32
07890414	4 x 2 x 0,14	0,11	5,8	24,7	39
07890514	5 x 2 x 0,14	0,11	6,2	28,8	46
07890614	6 x 2 x 0,14	0,11	6,4	31,5	53
07890714	7 x 2 x 0,14	0,11	6,7	35,9	59
07891014	10 x 2 x 0,14	0,11	7,9	47,5	72
07891414	14 x 2 x 0,14	0,11	9,0	62,7	96
07891814	18 x 2 x 0,14	0,11	10,0	89,6	129
07892514	25 x 2 x 0,14	0,11	11,7	114,3	170
07890225	2 x 2 x 0,25	0,11	5,1	21,8	35
07890325	3 x 2 x 0,25	0,11	5,7	28,3	44
07890425	4 x 2 x 0,25	0,11	6,4	36,1	52
07890525	5 x 2 x 0,25	0,11	6,9	41,1	61
07890625	6 x 2 x 0,25	0,11	7,1	47,3	69
07890725	7 x 2 x 0,25	0,11	7,4	54,1	82
07891025	10 x 2 x 0,25	0,11	8,9	70,8	101
07891425	14 x 2 x 0,25	0,11	10,9	108,7	153
07891825	18 x 2 x 0,25	0,11	11,6	133,4	189
07892525	25 x 2 x 0,25	0,11	13,8	171,9	262
07890234	2 x 2 x 0,34	0,11	5,4	20,3	40
07890334	3 x 2 x 0,34	0,11	6,0	34,9	52
07890434	4 x 2 x 0,34	0,11	6,9	43,2	63
07890534	5 x 2 x 0,34	0,11	7,4	53,1	73

item no.	no. of pairs x cross section n x 2 x mm²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
07890734	7 x 2 x 0,34	0,11	8,0	66,4	94
07891034	10 x 2 x 0,34	0,11	9,6	90,5	121
07891434	14 x 2 x 0,34	0,11	11,6	138,3	181
07891834	18 x 2 x 0,34	0,11	12,5	169,2	223
07892534	25 x 2 x 0,34	0,11	14,7	247,3	313
07890250	2 x 2 x 0,50	0,11	6,3	34,6	52
07890350	3 x 2 x 0,50	0,11	6,9	47,3	68
07890450	4 x 2 x 0,50	0,11	7,9	61,4	85
07890550	5 x 2 x 0,50	0,11	8,8	73,1	103
07890750	7 x 2 x 0,50	0,11	9,4	108,4	136
07891050	10 x 2 x 0,50	0,11	11,3	143,3	189
07891450	14 x 2 x 0,50	0,11	13,5	191,7	256
07891850	18 x 2 x 0,50	0,11	14,7	257,8	335
07892550	25 x 2 x 0,50	0,11	17,0	336,5	436
07890275	2 x 2 x 0,75	0,11	7,2	47,4	69
07890375	3 x 2 x 0,75	0,11	7,9	66,2	85
07890475	4 x 2 x 0,75	0,11	8,9	101,0	109
07890575	5 x 2 x 0,75	0,11	10,8	118,8	159
07890775	7 x 2 x 0,75	0,11	11,6	148,0	213
07891075	10 x 2 x 0,75	0,11	13,5	228,0	267
07891475	14 x 2 x 0,75	0,11	16,1	296,9	372
07891875	18 x 2 x 0,75	0,11	17,3	366,1	463
07892575	25 x 2 x 0,75	0,11	20,1	480,5	606

Other dimensions and colours are possible on request.



UL/CSA-Typ:
SD 980 C TP

S 910 P Continuously flexible TPE/PUR single conductor



AWM Style 10456 80°C 600V CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE



Marking for S 910 P 37681362:

SAB BRÖCKSKES · D-VIERSEN · 37681362 16,0 mm² S 910 P 6 AWG 37680601 AWM Style 10456 80°C 600V CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	black (RAL 9005)

Outstanding features:

- highly flexible single conductor for use in cable tracks
- good chemical resistance
- high abrasion resistance
- halogen-free
- EAC approval

Technical data:

Nominal voltage:	DIN VDE: U ₀ /U 0,6/1 kV
Voltage:	UL: 600 V CSA: 1000 V
Min. bending radius <i>continuously flexible:</i>	7,5 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	DIN VDE -50/+90°C UL/CSA: up to +80°C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL/CSA FT1 + FT2
Oil resistance:	very good - PUR TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Colour of insulation: ➤ black

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	AWG/ MCM	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
37681340	1 x 4,00	0,16	12 (224/34)	6,6	38,4	69
37681360	1 x 6,00	0,21	10 (186/32)	7,5	57,6	94
37681361	1 x 10,00	0,21	8 (320/32)	8,4	96,0	138
37681362	1 x 16,00	0,21	6 (512/32)	9,9	153,6	206
37681363	1 x 25,00	0,21	4 (798/32)	11,1	240,0	296
37681364	1 x 35,00	0,21	2 (1083/32)	12,6	336,0	390
37681365	1 x 50,00	0,31	1 (703/28)	14,7	480,0	554
37681366	1 x 70,00	0,31	2/0 (988/28)	17,0	672,0	771
37681367	1 x 95,00	0,31	3/0 (1340/28)	20,4	912,0	1024
37681368	1 x 120,00	0,31	4/0 (1680/28)	23,0	1152,0	1318
37681369	1 x 150,00	0,31	250 MCM (2122/28)	25,7	1440,0	1649

Other dimensions and colours are possible on request.



On request with
**green-yellow
insulation**

S 910 CP Continuously flexible TPE/PUR single conductor with overall copper screen



Style 10456 80°C 600V CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

SAB BRÖCKSKES · D-VIERSEN · 37692362 16,0 mm² S 910 CP 6 AWG 37690601  AWM Style 10456 80°C 600V CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

Marking for S 910 CP 37692362:

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003)

Outstanding features:

- highly flexible single conductor for use in cable tracks
- good chemical resistance
- high abrasion resistance
- halogen-free
- EAC approval

Technical data:

Nominal voltage:	DIN VDE: U _o /U 0,6/1 kV
Voltage:	UL: 600 V CSA: 1000 V
Min. bending radius <i>continuously flexible:</i>	7,5 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	DIN VDE -50/+90°C -40/+90°C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL/CSA FT1 + FT2
Oil resistance:	very good - PUR TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Colour of insulation: ➤ black

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	AWG/ MCM	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
37692340	1 x 4,00	0,16	12 (224/34)	7,1	54,5	83
37692360	1 x 6,00	0,21	10 (186/32)	8,0	77,3	112
37692361	1 x 10,00	0,21	8 (320/32)	8,9	119,7	157
37692362	1 x 16,00	0,21	6 (512/32)	10,3	182,6	227
37692363	1 x 25,00	0,21	4 (798/32)	11,7	293,9	335
37692364	1 x 35,00	0,21	2 (1083/32)	13,3	395,7	434
37692365	1 x 50,00	0,31	1 (703/28)	15,8	577,7	631
37692366	1 x 70,00	0,31	2/0 (988/28)	17,9	783,2	840
37692367	1 x 95,00	0,31	3/0 (1340/28)	22,9	1051,4	1193
37692368	1 x 120,00	0,31	4/0 (1680/28)	23,9	1293,3	1421
37692369	1 x 150,00	0,31	250 MCM (2122/28)	26,6	1611,3	1773

Other dimensions and colours are possible on request.



On request with
**green-yellow
insulation**

SL 801 C Combined TPE/PUR motor connection cable with overall copper screen 0.6/1 kV



01 C 4 x 0,75 mm² + 2 x (2 x 0,34 mm²) **DESINA**



Marking for SL 801 C 08010407:

SAB BRÖCKSKES · D-VIERSEN · SL 801 C 4 x 0,75 mm² + 2 x (2 x 0,34 mm²) **DESINA**

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6 >0,5 mm ² acc. to DIN VDE 0812
Insulation:	TPE
Colour code:	black cores with consecutive numbers acc. to EN 50334; (except 0,34 mm ² = coloured) and a green-yellow earth wire supply cores: U1, V2, W3 and a green-yellow earth wire control cores: BR1 and BR2
from item no. 08011415:	
Stranding:	control cores 0,34 mm ² - 2,5 mm ² twisted to pairs
Screen:	pairs wrapped with Alu-foil, tinned copper braid
Wrapping:	pairs with PETP foil
Stranding:	screened control pairs and supply cores twisted together in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003)

Technical data:

Nominal voltage:	supply cores	U ₀ /U 0.6/1 kV
Peak operating voltage:	control cores	max. 500 V
Testing voltage U:	supply cores	4000 V
	control cores	max. 1500 V
Min. bending radius		
fixed laying:		5 x d
flexible application:		10 x d
continuously flexible:		12 x d
Radiation resistance:		5x10 ⁷ cJ/kg
Temperature range		
fixed laying:		-50/+90 °C
flexible application:		-40/+90 °C
Oil resistance:		very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:		good against acids, alkalines, solvents, hydraulic liquids etc.
Weather resistance:		very good
Absence of harmful substances:		acc. to RoHS directive of the European Union

Outstanding features:

- very good EMC characteristics
- long service life
- adhesion-free installation
- high flexibility
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- DESINA® colours
- EAC approval



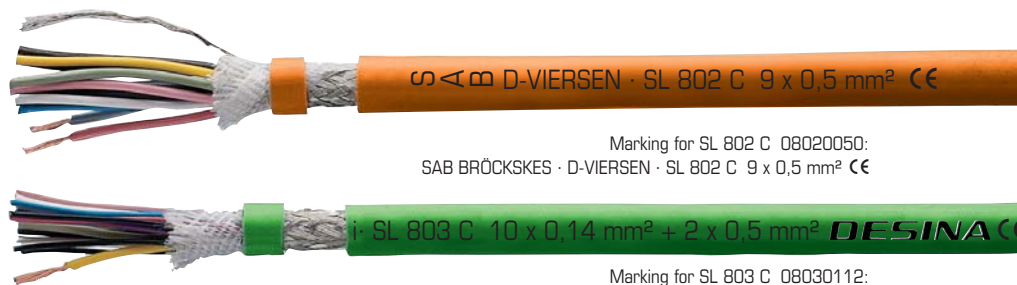
UL/CSA-Typ:
SL 841 C

Cable harnessing
possible on request

	item no.	dimensions	AWG		largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
			supply cores	control cores (pairs)				
DESINA	08010407	4 x 0,75 + 2 x (2 x 0,34)	19 / 4c	22 / 2pr	0,16/0,11	10,5 ± 0,5	115,5	160
	08010410	4 x 1,00 + 2 x (2 x 0,75)	18 / 4c	19 / 2pr	0,16	12,0 ± 0,5	154,2	209
	08010415	4 x 1,50 + 2 x (2 x 0,75)	16 / 4c	19 / 2pr	0,16	12,2 ± 0,5	174,3	233
	08010425	4 x 2,50 + 2 x (2 x 1,00)	14 / 4c	18 / 2pr	0,16	15,0 ± 0,8	236,8	312
	08010441	4 x 4,00 + (2 x 1,00) + (2 x 1,50)	12 / 4c	18 / 1pr + 16 / 1pr	0,16	17,8 ± 0,6	349,8	463
	08010461	4 x 6,00 + (2 x 1,00) + (2 x 1,50)	10 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	18,6 ± 0,8	437,6	580
	08010471	4 x 10,00 + (2 x 1,00) + (2 x 1,50)	8 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	22,5 ± 1,0	613,5	792
	08010485	4 x 16,00 + 2 x (2 x 1,50)	6 / 4c	16 / 2pr	0,21/0,16	27,6 ± 0,8	880,6	1130
	08010490	4 x 25,00 + 2 x (2 x 1,50)	4 / 4c	16 / 2pr	0,21/0,16	28,0 ± 1,0	1237,0	1507
	08010495	4 x 35,00 + 2 x (2 x 1,50)	2 / 4c	16 / 2pr	0,21/0,16	32,0 ± 1,0	1647,3	2011
	08010496	4 x 50,00 + 2 x (2 x 2,50)	1 / 4c	14 / 2pr	0,21/0,16	38,2 ± 1,0	2324,0	2866
	08011415	4 x 1,50 + (2 x 1,50)	16 / 4c	16 / 1pr	0,16	12,5 ± 0,4	161,8	213
	08011425	4 x 2,50 + (2 x 1,50)	14 / 4c	16 / 1pr	0,16	13,8 ± 0,4	202,1	266
	08011440	4 x 4,00 + (2 x 1,50)	12 / 4c	16 / 1pr	0,16	14,9 ± 0,4	270,4	353
	08011460	4 x 6,00 + (2 x 1,50)	10 / 4c	16 / 1pr	0,21/0,16	16,7 ± 1,1	382,5	490
	08011470	4 x 10,00 + (2 x 1,50)	8 / 4c	16 / 1pr	0,21/0,16	19,2 ± 1,6	549,4	698
SIEMENS INDRAMAT	08011480	4 x 16,00 + (2 x 1,50)	6 / 4c	16 / 1pr	0,21/0,16	23,0 ± 1,7	802,2	1008
	08011490	4 x 25,00 + (2 x 1,50)	4 / 4c	16 / 1pr	0,21/0,16	26,9 ± 1,0	1171,1	1448
	08011495	4 x 35,00 + (2 x 1,50)	2 / 4c	16 / 1pr	0,21/0,16	31,0 ± 1,0	1592,3	2012
	08011496	4 x 50,00 + (2 x 1,50)	1 / 4c	16 / 1pr	0,21/0,16	34,8 ± 1,0	2203,3	2695

Other dimensions and colours are possible on request.

SL 802 C TPE/PUR feedback cable with overall copper screen SL 803 C TPE/PUR transmission cable with overall copper screen



Marking for SL 802 C 08020050:
SAB BRÖCKSKES · D-VIERSEN · SL 802 C 9 x 0,5 mm² CE

Marking for SL 803 C 08030112:
SAB BRÖCKSKES · D-VIERSEN · SL 803 C 10 x 0,14 mm² + 2 x 0,5 mm² DESINA CE

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0812
Insulation:	TPE
Colour code:	coloured
Stranding	
SL 802 C:	in layers
SL 803 C:	in layers or pairwise
Screen:	acc. to dimension: pairs screened or wrapped with tinned copper braid
Inner sheath:	TPE 510
Stranding:	cores/pairs twisted together in layers
Wrapping:	non-woven tape or netting tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003) or green (RAL 6018)

Technical data:

Peak operating voltage	
SL 802 C:	max. 500 V
SL 803 C:	max. 350 V
Testing voltage U:	2000 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
continuously flexible:	12 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:

- very good EMC characteristics
- very high flexibility
- very long service life
- adhesion-free installation
- oil resistant
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- DESINA® colours
- EAC approval



UL/CSA-Typ:
SL 842 C / SL 843 C
suitable for resolvers
and shaft encoders

item no.	dimensions	sheath colour	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
Motor-Feedbackleitung						
08020050	9 x 0,50	orange	0,16	7,8	66,2	97
Geberleitung						
08030009	4 x 2 x 0,25 + 2 x 0,50	orange	0,11/0,16	7,8	51,8	81
08030010	4 x 2 x 0,25 + 2 x 1,00	orange	0,11/0,16	7,9	63,3	93
08030160	3 x 2 x 0,25 + 3 x 0,25 + 2 x 1,00	orange	0,11/0,16	7,9	65,8	96
08030040	3 x 2 x 0,25	orange	0,11	6,3	33,2	52
08030060	4 x 2 x 0,14 + (4 x 0,14) D + 4 x 1,00	orange	0,11/0,16	9,7	88,5	135
08030012	4 x 2 x 0,14 + 4 x 0,50	grün	0,11/0,16	7,9	54,9	86
08030112	10 x 0,14 + 2 x 0,50	grün	0,11/0,16	7,0	44,0	66
08030114	10 x 0,14 + 4 x 0,50	grün	0,11/0,16	7,8	55,6	83
08030013	4 x 2 x 0,38 + 4 x 0,50	grün	0,11/0,16	8,9	75,9	112
08030020	3 x (2 x 0,14 C) + 2 x 1,00	grün	0,11/0,16	8,6	80,6	102
08030022	3 x (2 x 0,14 C) + 2 x (0,50 C)	grün	0,11/0,16	8,8	87,6	108
08031050	3 x (2 x 0,14 D) + 4 x 0,14 + 4 x 0,22 + 2 x 0,50	grün	0,11	9,5	77,9	121

Other dimensions and colours are possible on request.



FLEXIBLE CABLES

- Halogen-free cables ■ Cable track cables
- Servo motor cables ■ ETFE, FEP, PFA cables
- Bus cables ■ Torsion cables
- Hybrid and special cables ■ Control and connection cables
- Data cables ■ Besilen® (Silicone) cables
- Compensating and extension cables ■ Tray cables

TEMPERATURE MEASUREMENT

- Protecting armatures and gauge slides
- Mineral insulated thermocouples and Mineral insulated resistance thermometers
- Temperature measurement in plastic processing industry/Hot runner technique
- Diesel thermocouples ■ Probe with stainless steel sleeve
- Temperature measurement in test vehicles
- Transmitter ■ HV sensors
- Measurement techniques

CABLE HARNESSING

- Harnessed cables acc. to customer's specification
- Harnessed cable track cables
- Helix cables ■ Cable harnesses
- Harnessed motor and transmission cables for Siemens and Indramat drives