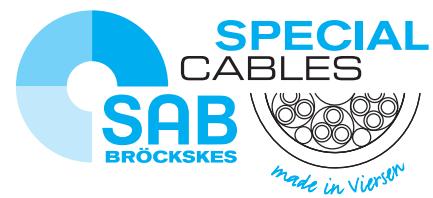
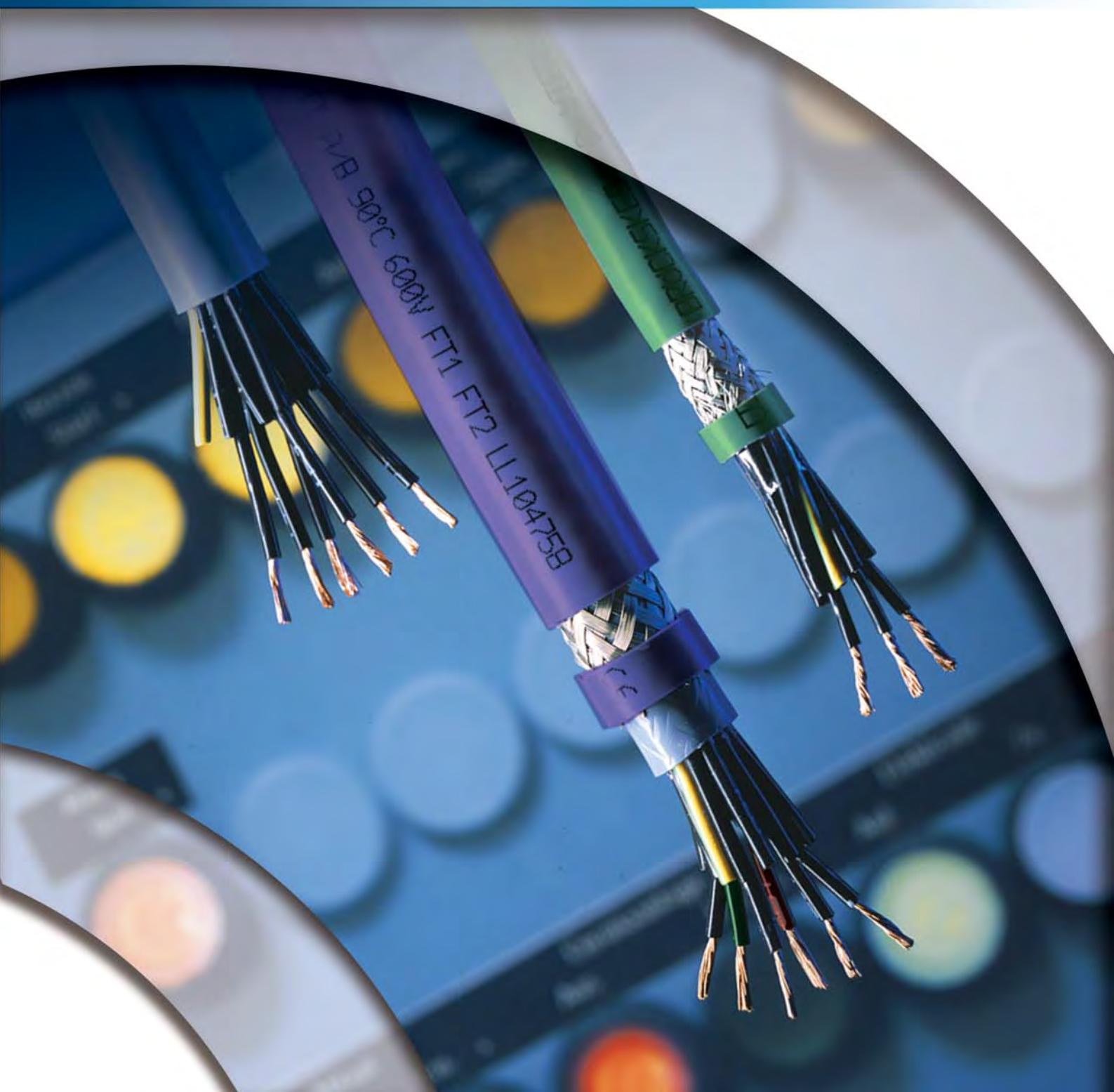


SPECIAL CABLES
TEMPERATURE MEASUREMENT · CABLE HARNESSING



CABLES FOR AUTOMATION INDUSTRY



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CABLES FOR AUTOMATION INDUSTRY

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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 9001:2015. Besides we established an environmental management system for our company acc. to ISO 14001:2015, 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 9001:2015 for every manufacturing field Environmental management system acc. to ISO 14001:2015 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
HAR EN IEC ISO	

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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Internet: <http://www.fabritius.be>

CABLES FOR AUTOMATION INDUSTRY

Applications



- ▶ **S 980 P**
continuously flexible TPE/PUR control cable
- ▶ **S 980 CP**
continuously flexible TPE/PUR control cable
with numbered cores and overall copper screen
- ▶ **SL 833 C**
PUR motor connection cable
with TPE cores and overall copper screen 0,6/1 kV
- ▶ **SL 871 C**
low capacity combined PUR motor connection cable
with overall copper screen 0,6/1 kV
- ▶ **SL 875 C - single cable solution**
low capacity hybrid motor connection cable
with overall copper screen 0,6/1 kV
- ▶ **SL 841 C**
combined TPE/PUR motor connection cable
with overall copper screen 0,6/1 kV
- ▶ **SL 842 C**
TPE/PUR feedback cable with overall copper screen
- ▶ **SL 843 C**
TPE/PUR transmission cable
with overall copper screen



- ▶ **S 200**
extremely flexible TPE/PUR control cable
with numbered cores
- ▶ **S 200 C**
continuously flexible TPE/PUR control cable
with numbered cores and overall copper screen
- ▶ **SL 801 C**
combined TPE/PUR motor connection cable
with overall copper screen 0.6/1 kV
- ▶ **SL 802 C**
TPE/PUR feedback cable with overall copper screen
- ▶ **SL 803 C**
TPE/PUR transmission cable
with overall copper screen
- ▶ **SL 823 C**
PUR motor connection cable
with TPE cores and overall copper screen 0.6/1 kV
- ▶ **S PB 634**
PUR Profibus-DP cable for cable tracks

Photos: Liebherr Verzahntechnik GmbH

CABLE TRACK CABLES

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 the outer layer
Wrapping:	non-woven tape
Sheath material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	grey (RAL 7032)

Technical Data:

Peak operating voltage:	max. 350 V acc. to DIN VDE
Testing voltage:	1500 V acc. to DIN VDE 0472 part 509
Min. bending radius continuously flexible:	7,5 x d
Radiation resistance:	5×10^7 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 - 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
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**
- **high abrasion resistance**
- **small outer diameter**
- **EAC approval**

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
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
0774202	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 mm ²	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.



On request
also possible in dimensions
0,50 mm² and 0,75 mm²

CABLE TRACK CABLES

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, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	grey (RAL 7032)

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 continuously flexible:	7,5 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
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.
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 mm ²	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 mm ²	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.

CABLE TRACK CABLES

SD 980 P

continuously flexible TPE/PUR data cable with coloured cores



Marking for SD 980 P 77742501:

SAB BRÖCKSKES · D-VIERSSEN · 77742501 25 x 0,14 mm² SD 980 P 26 AWG/25c 77742625

UL CSA AWM Style 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 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 and one additional non-woven tape over the outer layer
Sheath material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	grey (RAL 7032)

Technical Data:

Peak operating voltage:	max. 350 V
Voltage UL/CSA:	300 V
Testing voltage:	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> :	DIN VDE -50/+90°C
<i>flexible application</i> :	UL/CSA: up to +80°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 VW-1 + CSA FT1 (acc. to dimension) FT2
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.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:



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

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
77740301	3 x 0,14	0,11	3,8	4,0	16
77740401	4 x 0,14	0,11	4,1	5,4	19
77740501	5 x 0,14	0,11	4,5	6,7	23
77740701	7 x 0,14	0,11	4,9	9,4	28
77741001	10 x 0,14	0,11	5,6	13,4	36
77741401	14 x 0,14	0,11	6,0	18,8	45
77741801	18 x 0,14	0,11	6,6	24,2	54
77742501	25 x 0,14	0,11	7,6	33,6	71
77740302	3 x 0,25	0,11	4,2	7,2	21
77740402	4 x 0,25	0,11	4,4	9,6	25
77740502	5 x 0,25	0,11	4,8	12,0	30
77740702	7 x 0,25	0,11	5,4	16,8	37

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
77741002	10 x 0,25	0,11	6,2	24,0	49
77741402	14 x 0,25	0,11	6,6	33,6	62
77741802	18 x 0,25	0,11	7,3	43,2	77
77742502	25 x 0,25	0,11	8,6	60,0	102
77740303	3 x 0,34	0,11	4,4	9,8	24
77740403	4 x 0,34	0,11	4,7	13,1	29
77740503	5 x 0,34	0,11	5,2	16,3	35
77740703	7 x 0,34	0,11	5,8	22,8	44
77741003	10 x 0,34	0,11	6,6	32,6	59
77741403	14 x 0,34	0,11	7,1	45,7	75
77741803	18 x 0,34	0,11	7,8	58,8	93
77742503	25 x 0,34	0,11	9,2	81,6	124

Other dimensions and colours are possible on request.

Possible on request!

- in dimensions 0,50 mm² and 0,75 mm²
- with coloured cores
with reference to colour code US 2



CABLE TRACK CABLES

SD 980 CP

continuously flexible TPE/PUR data cable with coloured cores and overall copper screen

C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE



Marking for SD 980 CP 77842501:

SAB BRÖCKSKES · D-VIERSEN · 77842501 25 x 0,14 mm² SD 980 CP 26 AWG/25c 77842625

VDE AWM Style 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 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
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:	grey (RAL 7032)

Technical Data:

Peak operating voltage:	max. 350 V
Voltage UL/CSA:	300 V
Testing voltage:	1500 V acc. to DIN VDE 0472 part 509 core/screen 1200 V
Min. bending radius continuously flexible:	7,5 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range fixed laying: flexible application:	DIN VDE -50/+90°C UL/CSA: up to +80°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 VW-1 + CSA FT1 FT2
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.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:

- labs uncritical
(labs = enamel moisture 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 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
77840301	3 x 0,14	0,11	4,2	14,3	24
77840401	4 x 0,14	0,11	4,5	15,7	27
77840501	5 x 0,14	0,11	4,9	20,6	33
77840701	7 x 0,14	0,11	5,3	23,4	38
77841001	10 x 0,14	0,11	6,0	29,4	47
77841401	14 x 0,14	0,11	6,4	34,9	55
77841801	18 x 0,14	0,11	7,0	43,8	68
77842501	25 x 0,14	0,11	8,0	57,3	88
77840302	3 x 0,25	0,11	4,6	17,6	29
77840402	4 x 0,25	0,11	4,8	20,0	32
77840502	5 x 0,25	0,11	5,2	25,9	40
77840702	7 x 0,25	0,11	5,8	30,9	47

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
77841002	10 x 0,25	0,11	6,6	41,7	61
77841402	14 x 0,25	0,11	7,0	53,2	76
77841802	18 x 0,25	0,11	7,8	64,7	91
77842502	25 x 0,25	0,11	9,0	86,3	120
77840303	3 x 0,34	0,11	4,8	20,2	32
77840403	4 x 0,34	0,11	5,1	26,9	39
77840503	5 x 0,34	0,11	5,6	30,4	44
77840703	7 x 0,34	0,11	6,2	38,9	55
77841003	10 x 0,34	0,11	7,0	52,2	72
77841403	14 x 0,34	0,11	7,5	67,0	89
77841803	18 x 0,34	0,11	8,2	82,5	108
77842503	25 x 0,34	0,11	9,6	110,7	142

Other dimensions and colours are possible on request.

Possible on request!

- in dimensions 0,50 mm² and 0,75 mm²
- with coloured cores
with reference to colour code US 2



SERVO CABLES

SL 860 C

low capacity PVC motor connection cable with overall copper screen 0.6/1 kV



Marking for SL 860 C 08600415:

SAB BRÖCKSKES · D-VIERSEN · 08600415 4 x 1,5 mm² DESINA AWM Style 21179 80°C 1000V CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	special polymer
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
Stranding:	specially adjusted layering
Wrapping:	foil
Screen:	tinned copper braiding
Sheath material:	PVC
Sheath colour:	orange (RAL 2003)

Technical Data:

Nominal voltage:	Uo/U 0.6/1 kV
Voltage UL:	1000 V
Testing voltage:	core/core 4000 V core/screen 4000 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
Temperature range	
fixed laying:	DIN VDE -30/+70 °C
flexible application:	UL: up to +80°C +0/+70 °C
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2 + UL FT1
Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:

- low capacity construction
- UL recognized
- very good EMC characteristics
- very good stripping
- very good oil resistance
- EAC approval

DESINA

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
08600415	4 x 1,50	0,26	8,5	81,3	116
08600425	4 x 2,50	0,26	9,3	125,0	159
08600440	4 x 4,00	0,31	11,9	207,6	262
08600460	4 x 6,00	0,31	13,6	290,2	354
08600470	4 x 10,0	0,41	21,4	493,9	618
08600480	4 x 16,0	0,41	22,2	753,6	919
08600490	4 x 25,0	0,41	26,0	1130,3	1319
08600495	4 x 35,0	0,41	29,3	1538,4	1760
08600496	4 x 50,0	0,41	30,6	2118,8	2430

Other dimensions and colours are possible on request.

SERVO CABLES

SL 863 C

low capacity combined PVC motor connection cable with overall copper screen 0.6/1 kV



Marking for SL 863 C 08631415:

SAB BRÖCKSKES · D-VIERSEN · 08631415 4 x 1,50 mm² + (2 x 1,50 mm²) AWM Style 21179 80°C 1000V CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	special polymer
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire supply cores: U1, V2, W3 and a green-yellow earth wire control cores: BR1 and BR2
Stranding:	control cores twisted to pairs
Screen:	tinned copper braiding
Wrapping:	PETP foil
Stranding:	screened control pairs and supply cores twisted together in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Sheath material:	PVC
Sheath colour:	orange (RAL 2003)

Technical Data:

Nominal voltage:	supply cores Uo/U 0.6/1 kV				
Voltage UL:	supply cores 1000 V				
Peak operatin voltage:	control cores max. 350 V				
Voltage UL:	control cores 1000 V				
Testing voltage:	supply cores	core/core	4000 V		
	control cores	core/screen	4000 V		
	control cores	core/core	2000 V		
	control cores	core/screen	2000 V		
Min. bending radius					
<i>fixed laying:</i>	5 x d				
<i>flexible application:</i>	10 x d				
Temperature range	DIN VDE	UL: up to +80°C			
<i>fixed laying:</i>	-30/+70 °C				
<i>flexible application:</i>	+0/+70 °C				
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2 + UL FT1				
Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1				
Absence of harmful substances:	acc. to RoHS directive of the European Union				

Outstanding features:



- low capacity construction
- UL recognized
- very good EMC characteristics
- very good stripping
- very good oil resistance
- EAC approval

item no.	dimensions	AWG	largest single wire Ø mm	outer-Ø mm	copper figure kg/km	cable weight ≈ kg/km
SIEMENS		supply cores	control cores (pairs)			
08631415	4 x 1,50 + (2 x 1,50)	16 / 4c	16 / 1pr	0,26/0,26	10,4	133,4 178
08631425	4 x 2,50 + (2 x 1,50)	14 / 4c	16 / 1pr	0,26/0,26	12,2	196,7 256
08631440	4 x 4,00 + (2 x 1,50)	12 / 4c	16 / 1pr	0,31/0,26	13,7	260,0 324
08631460	4 x 6,00 + (2 x 1,50)	10 / 4c	16 / 1pr	0,31/0,26	16,2	374,9 472
08631470	4 x 10,00 + (2 x 1,50)	8 / 4c	16 / 1pr	0,41/0,26	18,9	542,3 672
08631480	4 x 16,00 + (2 x 1,50)	6 / 4c	16 / 1pr	0,41/0,26	23,3	802,2 975
08631490	4 x 25,00 + (2 x 1,50)	4 / 4c	16 / 1pr	0,41/0,26	26,7	1178,5 1363
08631495	4 x 35,00 + (2 x 1,50)	2 / 4c	16 / 1pr	0,41/0,26	29,8	1586,4 1789

Other dimensions and colours are possible on request.

SERVO CABLES

SL 834 C

low capacity PUR motor connection cable with overall copper screen 0.6/1 kV



Marking for SL 834 C 08340415:

SAB BBROCKSKES · D-VIERSEN · 08340415 4G1,5 mm² SL 834 C 16 AWG/4c 1000V 08341604 **DESINA**

■ AWM Style 20235 80°C 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:	special polymer
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
Stranding:	in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Sheath material:	PUR
Sheath colour:	orange (RAL 2003)

Outstanding features:

- low capacity construction
- UL recognized, CSA approval
- very good EMC characteristics
- halogen-free
- very high flexibility
- suitable for cable tracks
- very good oil resistance
- very long service life
- adhesion-free installation
- labs uncritical
(labs = enamel moisture interfering substances)
- flexible at low temperatures
- DESINA® colours
- EAC approval

Technical Data:

Nominal voltage:	Uo/U 0.6/1 kV
Voltage UL/CSA:	1000 V
Testing voltage:	core/core 4000 V core/screen 2000 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
continuously flexible:	12 x d
Temperature range	DIN VDE
fixed laying:	-50/+70 °C
flexible application:	-40/+70 °C
Fire performance:	UL/CSA: up to +80°C
	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2 + UL FT1, CSA FT1 + FT2
Oil resistance:	very good - TMPU acc. to DIN EN 50363-10-2
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union

for DNC motors
on frequency converters



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
08340415	4 x 1,50	0,16	9,0	83,5	126
08340425	4 x 2,50	0,16	10,8	142,5	195
08340440	4 x 4,00	0,16	12,4	206,5	270
08340460	4 x 6,00	0,21	15,4	298,1	398
08340470	4 x 10,0	0,21	17,6	494,7	604
08340480	4 x 16,0	0,21	22,7	749,7	953
08340490	4 x 25,0	0,21	25,6	1119,8	1303
08340495	4 x 35,0	0,21	28,9	1532,9	1750
08340496	4 x 50,0	0,31	34,5	2144,5	2486

Other dimensions and colours are possible on request.

DESINA

SERVO CABLES

SL 871 C

low capacity combined PUR motor connection cable with overall copper screen 0.6/1 kV



Marking for SL 871 C 08711425:

SAB BRÖCKSKES · D-VIERSSEN · 08711425 SL 871 C 4G2,5 mm² + (2 x 1,5 mm²) DESINA

RA AWM Style 20234 80°C 1000V 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 < 0,50 mm ² with reference to DIN VDE 0812
Insulation:	special polymer
Colour code:	supply cores up to 08710496: black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire supply cores from 08711415: core 1: U/L1/C/L+, core 2: V/L2, core 3: W/L3/D/L- and a green-yellow earth wire control cores: with 1 control pair: black, white with 2 control pairs: black with numbers 5, 6 and 7, 8
Stranding:	control cores: twisted to pairs
Wrapping:	control cores: non-woven tape
Screen:	control cores: tinned copper braiding
Wrapping:	control cores: non-woven tape
Stranding:	screened control pairs and supply cores twisted together with fillers in layers
Wrapping:	non-woven tape
Screen:	overall copper screen
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN EN 50363-10-2 with mat surface
Sheath colour:	orange (RAL 2003)

Technical Data:

Nominal voltage:	DIN VDE: 0.6/1 kV
Peak operating voltage:	DIN VDE: max. 350 V
Voltage UL/CSA:	supply cores 1000 V control cores 300 V (from 0871-1415: 1000 V)
Testing voltage:	supply cores 4000 V control cores 2000 V
Min. bending radius <i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
Temperature range <i>fixed laying:</i>	DIN VDE -50/+90 °C
<i>flexible application:</i>	UL/CSA: up to +80°C -40/+90 °C
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2 + UL FT1, CSA FT1, FT2
Oil resistance:	very good - TMPU acc. to DIN EN 50363-10-2
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:



- low capacity construction
- UL recognized, CSA approval
- very good EMC characteristics
- long service life
- adhesion-free installation
- high flexibility
- suitable for cable tracks
- halogen-free
- labs uncritical
(labs = enamel moisture interfering substances)
- flexible at low temperatures
- DESINA® colours



Cable harnessing
possible on request!

DESINA
SIEMENS INDRAMAT

item no.	dimensions	AWG supply cores	control cores (pairs)	largest single wire Ø mm	outer-Ø mm	copper figure kg/km	cable weight ≈ kg/km
08710407	4 x 0,75 + 2 x (2 x 0,34)	19 / 4c	22 / 2pr	0,16/0,11	11,6 ± 0,5	117,1	168
08710410	4 x 1,00 + 2 x (2 x 0,75)	18 / 4c	19 / 2pr	0,16	11,8 ± 0,5	150,1	201
08710415	4 x 1,50 + 2 x (2 x 0,75)	16 / 4c	19 / 2pr	0,16	12,3 ± 0,5	170,1	224
08710425	4 x 2,50 + 2 x (2 x 1,00)	14 / 4c	18 / 2pr	0,16	14,5 ± 0,8	231,8	320
08710441	4 x 4,00 + (2 x 1,00) + (2 x 1,50)	12 / 4c	18 / 1pr + 16 / 1pr	0,16	17,4 ± 0,6	343,0	458
08710461	4 x 6,00 + (2 x 1,00) + (2 x 1,50)	10 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	18,9 ± 0,8	432,8	557
08710471	4 x 10,00 + (2 x 1,00) + (2 x 1,50)	8 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	20,4 ± 1,0	603,7	758
08710485	4 x 16,00 + 2 x (2 x 1,50)	6 / 4c	16 / 2pr	0,21/0,16	26,0 ± 0,8	875,7	1111
08710490	4 x 25,00 + 2 x (2 x 1,50)	4 / 4c	16 / 2pr	0,21/0,16	29,4 ± 0,8	1251,1	1517
08710495	4 x 35,00 + 2 x (2 x 1,50)	2 / 4c	16 / 2pr	0,21/0,16	31,3 ± 0,8	1644,6	1882
08710496	4 x 50,00 + 2 x (2 x 2,50)	1 / 4c	14 / 2pr	0,31/0,16	38,2 ± 0,8	2317,6	2659
08711415	4 x 1,50 + (2 x 1,50)	16 / 4c	16 / 1pr	0,16/0,16	12,0 ± 0,3	159,0	200
08711425	4 x 2,50 + (2 x 1,50)	14 / 4c	16 / 1pr	0,16/0,16	13,0 ± 0,3	204,0	290
08711440	4 x 4,00 + (2 x 1,50)	12 / 4c	16 / 1pr	0,16/0,16	15,0 ± 0,3	259,0	340
08711460	4 x 6,00 + (2 x 1,50)	10 / 4c	16 / 1pr	0,21/0,16	16,6 ± 0,4	377,0	470
08711470	4 x 10,00 + (2 x 1,50)	8 / 4c	16 / 1pr	0,21/0,16	19,5 ± 0,4	566,0	700
08711480	4 x 16,00 + (2 x 1,50)	6 / 4c	16 / 1pr	0,21/0,16	23,0 ± 0,4	814,8	1010
08711490	4 x 25,00 + (2 x 1,50)	4 / 4c	16 / 1pr	0,21/0,16	27,0 ± 0,5	1175,0	1450
08711495	4 x 35,00 + (2 x 1,50)	2 / 4c	16 / 1pr	0,21/0,16	30,0 ± 0,5	1586,0	2160
08711496	4 x 50,00 + (2 x 1,50)	1 / 4c	16 / 1pr	0,26/0,16	34,4 ± 0,5	2192,0	2950

Weitere Abmessungen und Farben auf Anfrage.



www.sab-cable.com

SERVO CABLES

for
single cable
systems

SL 875 C

low capacity hybrid motor connection cable with overall copper screen 0.6/1 kV



Marking for SL 875 C 08750105:

SAB BRÖCKSKES · D-VIERSSEN · 08750105 SL 875 C 4 x 1,5 mm² (1000V) + (2 x 1,0 mm²) (1000V) + (2 x AWG 22) (1000V)C DESINA

UL AWM Style 20910 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6 < 0,50 mm ² with reference to DIN VDE 0812
Insulation:	special polymer
Colour code:	item 0875-01 .. supply cores: black cores with printing core 1: U/L1/C/L+ core 2: V/L2 core 3: W/L3/D/L- and a green-yellow earth wire control cores: black cores with number 5+6 feedback: white, blue item 0875-05 .. supply cores: black, blue, brown, green-yellow control cores: white -blue, white-green feedback: white-green, brown-green + gray, pink, yellow, violet
Stranding:	control cores pairwise, item 0875-01 .. feedbackcores pairwise item 0875-05 .. feedbackcores 0,09 mm ² pairwise pairs with cores 0,24 mm ² in layers optimally stranded
Wrapping:	non-woven tape resp. foil
Screen:	elements with tinned copper braid item 0875-01 .. feedbackcores additional Alu-foil
Wrapping:	non-woven tape resp. foil
Stranding:	screened elements and supply cores in layers optimally stranded
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN EN 50363-10-2 with mat surface
Sheath colour:	orange (RAL 2003)

Technical Data:

Nominal voltage:	DIN VDE: supply cores	Uo/U 0.6/1 kV
Peak operating voltage:	DIN VDE: control cores + feedbackcores	max. 500 V
Voltage:	UL: CSA: $\geq 0,5 \text{ mm}^2$ $< 0,5 \text{ mm}^2$	1000 V 1000 V 300 V
Testing voltage:	supply cores, control cores feedbackcores	4000 V 3000 V
Min. bending radius		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<i>continuously flexible:</i>	12 x d	
Radiation resistance:	$5 \times 10^7 \text{ cJ/kg}$	
Temperature range	DIN VDE	UL/CSA: up to +80°C
<i>fixed laying:</i>	-50/+90 °C	
<i>flexible application:</i>	-40/+90 °C	
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2 + UL FT1, CSA FT1, FT2	
Oil resistance:	very good - TMPU acc. to DIN EN 50363-10-2	
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:



- application as single cable solution in motor feedback systems
- low capacity construction
- UL recognized, CSA approval
- very good EMC characteristics
- long service life
- adhesion-free installation
- suitable for cable tracks
- halogen-free
- labs uncritical
(labs = enamel moisture interfering substances)
- flexible at low temperatures
- DESINA® colours

item no.	dimensions	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
acc. to SICK HIPERFACE DSL*				
08750101	4 x 0,50 + (2 x 0,34)C + (2 x 26 AWG)C	9,8	85,2	131
08750102	4 x 0,75 + (2 x 0,34)C + (2 x 26 AWG)C	10,0	95,4	139
08750103	4 x 1,00 + (2 x 0,75)C + (2 x 22 AWG)C	11,8	155,2	199
08750104	4 x 1,50 + (2 x 0,75)C + (2 x 22 AWG)C	12,6	176,5	230
08750105	4 x 1,50 + (2 x 1,00)C + (2 x 22 AWG)C	12,8	181,7	237
08750106	4 x 2,50 + (2 x 1,00)C + (2 x 22 AWG)C	13,9	222,0	286
08750107	4 x 4,00 + (2 x 1,00)C + (2 x 22 AWG)C	15,4	292,8	376
08750108	4 x 6,00 + (2 x 1,00)C + (2 x 22 AWG)C	18,1	414,2	520
08750109	4 x 10,0 + (2 x 1,50)C + (2 x 22 AWG)C	20,0	593,3	715
08750110	4 x 16,0 + (2 x 1,50)C + (2 x 22 AWG)C	24,4	851,9	1055
acc. to HEIDENHAIN HMC6*				
08750501	4 x 0,75 + (2 x 0,34)C + (2 x 0,24 + 2 x 2 x 0,09)C	10,8	122,7	163
08750502	4 x 1,50 + (2 x 0,75)C + (2 x 0,24 + 2 x 2 x 0,09)C	12,1	171,1	219
08750503	4 x 2,50 + (2 x 1,00)C + (2 x 0,24 + 2 x 2 x 0,09)C	13,7	224,0	282
08750504	4 x 4,00 + (2 x 1,00)C + (2 x 0,24 + 2 x 2 x 0,09)C	15,4	288,2	359

Other dimensions and colours are possible on request.

SICK HIPERFACE DSL* is a registered trademark of SICK AG, which is used for comparative purposes only.
HEIDENHAIN HMC6* is a registered trademark of Dr. Johannes Heidenhain GmbH, which is used for comparative purposes only.

SERVO CABLES

**Suitable for
cable tracks and
very good EMC**

SL 801 C

combined TPE/PUR motor connection cable with overall copper screen 0.6/1 kV



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 < 0,50 mm ² with reference 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
from item no. 08011415:	supply cores: U1, V2, W3 and a green-yellow earth wire control cores: BR1 and BR2
Stranding:	control cores 0,34 mm ² - 2,5 mm ² twisted to pairs
Screen:	pairs wrapped with Alu-foil and tinned copper braiding
Wrapping:	pairwise 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:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003)

Technical Data:

Nominal voltage:	supply cores Uo/U 0.6/1 kV
Peak operating voltage:	control cores max. 500 V
Testing voltage:	supply cores 4000 V control cores 1500 V
Min. bending radius	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range	
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-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
- long service life
- adhesion-free installation
- suitable for cable tracks
- halogen-free
- labs uncritical
(labs = enamel moisture interfering substances)
- flexible at low temperatures
- DESINA® colours
- EAC approval

**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)			
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
08010410	4 x 1,00 + 2 x (2 x 0,75)	18 / 4c	19 / 2pr	0,16	12,0 ± 0,5	154,2
08010415	4 x 1,50 + 2 x (2 x 0,75)	16 / 4c	19 / 2pr	0,16	12,2 ± 0,5	174,3
08010425	4 x 2,50 + 2 x (2 x 1,00)	14 / 4c	18 / 2pr	0,16	15,0 ± 0,8	236,8
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
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
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
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
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
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
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
08011415	4 x 1,50 + (2 x 1,50)	16 / 4c	16 / 1pr	0,16	12,5 ± 0,4	161,8
08011425	4 x 2,50 + (2 x 1,50)	14 / 4c	16 / 1pr	0,16	13,8 ± 0,4	202,1
08011440	4 x 4,00 + (2 x 1,50)	12 / 4c	16 / 1pr	0,16	14,9 ± 0,4	270,4
08011460	4 x 6,00 + (2 x 1,50)	10 / 4c	16 / 1pr	0,21/0,16	16,7 ± 1,1	382,5
08011470	4 x 10,00 + (2 x 1,50)	8 / 4c	16 / 1pr	0,21/0,16	19,2 ± 1,6	549,4
08011480	4 x 16,00 + (2 x 1,50)	6 / 4c	16 / 1pr	0,21/0,16	23,0 ± 1,7	802,2
08011490	4 x 25,00 + (2 x 1,50)	4 / 4c	16 / 1pr	0,21/0,16	26,9 ± 1,0	1171,1
08011495	4 x 35,00 + (2 x 1,50)	2 / 4c	16 / 1pr	0,21/0,16	31,0 ± 1,0	1592,3
08011496	4 x 50,00 + (2 x 1,50)	1 / 4c	16 / 1pr	0,21/0,16	34,8 ± 1,0	2203,3

Other dimensions and colours are possible on request.

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www.sab-cable.com

SERVO CABLES

SL 841 C

combined TPE/PUR motor connection cable with overall copper screen 0.6/1 kV



Marking for SL 841 C 08410407:

SAB BRÖCKSKES · D-VIERSSEN · 08410407 SL 841 C 4 x 0,75 mm² (1000V) + 2 x (2 x 0,34 mm²) (300V) DESINA

UL AWM Style 20235 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6 < 0,50 mm ² with reference to DIN VDE 0812
Insulation:	TPE
Colour code:	black cores with consecutive numbers acc. to EN 50334 (except 0,34 mm ² = coloured) from item no. 08411415: and a green-yellow earth wire supply cores: * U1, V2, W3 and a green-yellow earth wire control cores: ** BR1 and BR2
Stranding:	control cores 0,34 mm ² - 2,5 mm ² twisted to pairs
Screen:	pairs wrapped with Alu-foil and tinned copper braiding
Wrapping:	pairwise with PETP foil
Stranding:	screened control pairs and supply cores twisted together in layers
Wrapping:	two layers non-woven tape
Screen:	overall copper screen
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)

Technical Data:

Nominal voltage:	DIN VDE: supply cores Uo/U 0.6/1 kV
Peak operatin voltage:	DIN VDE: control cores max. 350 V
Voltage:	UL/CSA: control cores 300 V
Testing voltage:	supply cores 4000 V control cores 1500 V
Min. bending radius <i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i>	DIN VDE -50/+90 °C
<i>flexible application:</i>	UL/CSA: up to +80°C -40/+90 °C
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2, CSA FT1 FT2 and UL FT1
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:

- UL recognized, CSA approval
- very good EMC characteristics
- long service life
- adhesion-free installation
- suitable for cable tracks
- halogen-free
- labs uncritical
(labs = enamel moisture interfering substances)
- flexible at low temperatures
- DESINA® colours
- EAC approval



Cable harnessing
possible on request!

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INDRAMAT
SIEMENS

item no.	dimensions	AWG supply cores	AWG control cores (pairs)	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
08410407	4 x 0,75 + 2 x (2 x 0,34)	19 / 4c	22 / 2pr	0,16/0,11	11,6 ± 0,5	117,1	168
08410410	4 x 1,00 + 2 x (2 x 0,75)	18 / 4c	19 / 2pr	0,16	11,8 ± 0,5	150,1	201
08410415	4 x 1,50 + 2 x (2 x 0,75)	16 / 4c	19 / 2pr	0,16	12,3 ± 0,5	170,1	228
08410425	4 x 2,50 + 2 x (2 x 1,00)	14 / 4c	18 / 2pr	0,16	14,5 ± 0,8	231,8	320
08410441	4 x 4,00 + (2 x 1,00) + (2 x 1,50)	12 / 4c	18 / 1pr + 16 / 1pr	0,16	17,4 ± 0,6	343,0	458
08410461	4 x 6,00 + (2 x 1,00) + (2 x 1,50)	10 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	18,9 ± 0,8	432,8	557
08410471	4 x 10,00 + (2 x 1,00) + (2 x 1,50)	8 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	20,4 ± 1,0	603,7	736
08410485	4 x 16,00 + 2 x (2 x 1,50)	6 / 4c	16 / 2pr	0,21/0,16	26,0 ± 0,8	875,7	1111
08410490	4 x 25,00 + 2 x (2 x 1,50)	4 / 4c	16 / 2pr	0,21/0,16	29,4 ± 0,8	1251,1	1517
08410495	4 x 35,00 + 2 x (2 x 1,50)	2 / 4c	16 / 2pr	0,21/0,16	31,3 ± 0,8	1644,6	1882
08410496	4 x 50,00 + 2 x (2 x 2,50)	1 / 4c	14 / 2pr	0,31/0,16	38,2 ± 0,8	2317,6	2656
08411415	4 x 1,50 + (2 x 1,50)	16 / 4c	16 / 1pr	0,16	12,5 ± 0,3	159,9	222
08411425	4 x 2,50 + (2 x 1,50)	14 / 4c	16 / 1pr	0,16	13,3 ± 0,4	204,8	285
08411440	4 x 4,00 + (2 x 1,50)	12 / 4c	16 / 1pr	0,16	15,2 ± 0,4	268,8	369
08411460	4 x 6,00 + (2 x 1,50)	10 / 4c	16 / 1pr	0,21/0,16	16,6 ± 1,1	377,5	485
08411470	4 x 10,00 + (2 x 1,50)	8 / 4c	16 / 1pr	0,21/0,16	19,5 ± 1,6	555,8	677
08411480	4 x 16,00 + (2 x 1,50)	6 / 4c	16 / 1pr	0,21/0,16	23,7 ± 1,0	814,8	1019
08411490	4 x 25,00 + (2 x 1,50)	4 / 4c	16 / 1pr	0,21/0,16	27,2 ± 0,7	1175,6	1418
08411495	4 x 35,00 + (2 x 1,50)	2 / 4c	16 / 1pr	0,21/0,16	30,1 ± 1,0	1586,4	1810
08411496	4 x 50,00 + (2 x 1,50)	1 / 4c	16 / 1pr	0,31/0,16	34,4 ± 1,0	2192,4	2463

Other dimensions and colours are possible on request.

SERVO CABLES

extremely long
service life

SL 823 C

PUR motor connection cable with TPE cores and overall copper screen 0.6/1 kV



Marking for SL 823 C 08230415:

SAB BRÖCKSKES · D-VIERSEN · SL 823 C 0,6/1 kV 4 x 1,5 mm² DESINA

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Colour code:	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
Stranding:	in layers
Wrapping:	two layers non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	orange (RAL 2003)

Technical Data:

Nominal voltage:	Uo/U 0.6/1 kV
Testing voltage:	core/core 4000 V core/screen 4000 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
- suitable for cable tracks
- oil resistant
- very long service life
- adhesion-free installation
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- flexible at low temperatures
- DESINA® colours
- EAC approval

for DNC motors
on frequency converters



item no.	no. of cores x cross section n x mm ²	AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
08230415	4 x 1,50	16 / 4c	0,16	9,5	95,8	141
08230425	4 x 2,50	14 / 4c	0,16	11,9	147,0	217
08230440	4 x 4,00	12 / 4c	0,16	13,0	210,2	289
08230460	4 x 6,00	10 / 4c	0,21	15,9	300,5	420
08230470	4 x 10,0	8 / 4c	0,21	18,5	489,9	627
08230480	4 x 16,0	6 / 4c	0,21	22,4	751,3	965
08230490	4 x 25,0	4 / 4c	0,21	25,5	1118,2	1363
08230495	4 x 35,0	2 / 4c	0,21	29,5	1533,4	1848
08230496	4 x 50,0	1 / 4c	0,31	34,5	2148,7	2553

Other dimensions and colours are possible on request.

DESINA

SERVO CABLES

SL 833 C

PUR motor connection cable with TPE cores and overall copper screen 0.6/1 kV



Marking for SL 833 C 08330415:

SAB BRÖCKSKES · D-VIERSSEN · 08330415 4 x 1,5 mm² SL 833 C 16 AWG/4c 08331604 1000V **DESINA**

■ AWM Style 20235 80°C 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
Colour code:	black cores with consecutive numbers acc. to EN 50344 and a green-yellow earth wire
Stranding:	together in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Sheath material:	PU acc. to UL 758
Sheath colour:	orange (RAL 2003)

Technical Data:

Nominal voltage:	DIN VDE Uo/U 0.6/1 kV
Voltage:	UL/CSA 1000 V
Testing voltage:	4000 V core/screen 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	DIN VDE
fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2, CSA FT1 FT2 and UL FT1
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.
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:

- UL recognized, CSA approval
- very good EMC characteristics
- very high flexibility
- suitable for cable tracks
- oil resistant
- very long service life
- adhesion-free installation
- labs uncritical
(labs = enamel moisture interfering substances)
- flexible at low temperatures
- DESINA® colours
- EAC approval



for DNC motors
on frequency converters

DESINA

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
08330415	4 x 1,50	0,16	9,1	83,5	126
08330425	4 x 2,50	0,16	11,0	142,5	192
08330440	4 x 4,00	0,16	12,5	206,7	273
08330460	4 x 6,00	0,21	15,5	298,3	399
08330470	4 x 10,0	0,21	17,8	495,2	605
08330480	4 x 16,0	0,21	22,8	750,0	951
08330490	4 x 25,0	0,21	25,7	1120,2	1331
08330495	4 x 35,0	0,21	29,2	1534,3	1732
08330496	4 x 50,0	0,31	34,3	2144,0	2428

Other dimensions and colours are possible on request.

SERVO CABLES

suitable for
cable tracks

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 with reference 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
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:	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



suitable for resolvers
and shaft encoders

DESINA
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item no.	dimensions	sheath colour	largest single wire Ø mm	outer-Ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
motor feedback cable 08020050	9 x 0,50	orange	0,16	7,8	66,2	97
transmission cable 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	green	0,11/0,16	7,9	54,9	86
08030112	10 x 0,14 + 2 x 0,50	green	0,11/0,16	7,0	44,0	66
08030114	10 x 0,14 + 4 x 0,50	green	0,11/0,16	7,8	55,6	83
08030013	4 x 2 x 0,38 + 4 x 0,50	green	0,11/0,16	8,9	75,9	112
08030020	3 x (2 x 0,14 C) + 2 x 1,00	green	0,11/0,16	8,6	80,6	102
08030022	3 x (2 x 0,14 C) + 2 x (0,50 C)	green	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	green	0,11	9,5	77,9	121

Other dimensions and colours are possible on request.

SERVO CABLES

SL 842 C TPE/PUR feedback cable with overall copper screen

SL 843 C TPE/PUR transmission cable with overall copper screen



Marking for SL 842 C 08420050:
SAB BRÖCKSKES · D-VIERSSEN · 08420050 9 x 0,5 mm² SL 842 C 20 AWG/9c 08422009
R AWM-Style 20233 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE



Marking for SL 843 C 08430006:
SAB BRÖCKSKES · D-VIERSSEN · 08430006 SL 843 C 3 x 2 x 0,25 mm² + 2 x 0,5 mm² **DESINA**
R AWM-Style 20235 80°C CSA AWM I/II A/B 80°C 300V FT1 CE



Construction:

Conductor:	bare copper strands with reference to DIN VDE 0812
Insulation:	TPE
Colour code:	coloured
Stranding	SL 842 C: in layers SL 843 C: in layers or pairwise
Screen:	acc. to dimension: pairs screened or wrapped with tinned copper braid
Inner sheath:	TPE over screened pairs
Stranding:	cores/pairs twisted together in layers
Wrapping:	one or. two layers 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) or green (RAL 6018)

Technical Data:

Peak operatin voltage:	DIN VDE: SL 842 C: max. 500 V SL 843 C: max. 350 V
Voltage:	UL/CSA: 300 V
Testing voltage:	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:	DIN VDE
flexible application:	UL/CSA: up to +80 °C -50/+90 °C
Fire performance SL 842 C:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2, UL FT1 and CSA FT1 FT2
Fire performance SL 843 C:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2, UL FT1 and CSA FT1
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:



- UL recognized, CSA approval
- good EMC characteristics
- high flexibility
- suitable for cable tracks
- oil resistant
- long service life
- adhesion-free installation
- halogen-free
- labs uncritical
(labs = enamel moisturing interfering substances)
- **DESINA®** colours
- EAC approval



**suitable for resolvers
and shaft encoders**

item no.	dimensions	sheath colour	largest single wire Ø mm	approx. outer-Ø mm	copper figure kg/km	cable weight ≈ kg/km
INDRAMAT						
motor feedback cable 08420050	9 x 0,50	orange	0,16	8,8 ± 0,3	72,6	104
transmission cable 08430009	4 x 2 x 0,25 + 2 x 0,50	orange	0,11/0,16	8,8 ± 0,3	54,7	92
08430010	4 x 2 x 0,25 + 2 x 1,00	orange	0,11/0,16	8,8 ± 0,3	63,5	96
08430160	3 x (2 x 0,25) D + 3 x 0,25 + 2 x 1,00	orange	0,11/0,16	10,0 ± 0,3	85,6	132
08430040	3 x (2 x 0,25) D	orange	0,11	8,7 ± 0,3	57,7	94
08430060	4 x 2 x 0,14 + (4 x 0,14) D + 4 x 1,0	orange	0,11/0,16	9,8 ± 0,3	88,7	136
08430012	4 x 2 x 0,14 + 4 x 0,50	green	0,11/0,16	9,1 ± 10%	56,9	101
08430112	10 x 0,14 + 2 x 0,50	green	0,11/0,16	8,5 ± 10%	46,8	90
08430114	10 x 0,14 + 4 x 0,50	green	0,11/0,16	9,0 ± 10%	59,5	106
08430066	3 x 2 x 0,25 + 2 x 0,50	green	0,11/0,16	8,7 ± 10%	50,1	89
08430013	4 x 2 x 0,38 + 4 x 0,50	green	0,11/0,16	10,3 ± 10%	80,6	135
08430020	3 x (2 x 0,14) C + 2 x 1,00	green	0,11/0,16	10,0 ± 10%	85,8	127
08430022	3 x (2 x 0,14) C + 2 x (0,50 C)	green	0,11/0,16	10,1 ± 10%	93,0	134
08431050	3 x (2 x 0,14) D + 4 x 0,14 + 4 x 0,22 + 2 x 0,50	green	0,11	10,7 ± 10%	97,9	129
08430070	3 x (2 x 0,14) D + 4 x 0,14 + 2 x 0,50	green	0,11/0,16	10,1 ± 10%	71,5	122
08430310	12 x 0,22	green	0,11	8,5 ± 10%	46,4	86
08430212	2 x 2 x 0,18	green	0,11	6,7 ± 10%	24,4	50
08430214	4 x 2 x 0,18	green	0,11	8,2 ± 10%	34,9	71
08430216	8 x 2 x 0,18	green	0,11	9,7 ± 10%	55,2	104

Other dimensions and colours are possible on request.

SERVO CABLES

SL 839 C

PUR transmission cable with overall copper screen



Marking for SL 839 C 08390138:

SAB BRÖCKSKES · D-VIERSEN · 08390138 SL 839 C 4 x 2 x 0,38 mm² + 4 x 0,50 mm² DESINA AWM Style 20236 80°C 30V

Construction:

Conductor:	tinned copper strands with reference to DIN VDE 0812
Insulation:	special Polymer
Colour code:	coloured
Screen:	acc. to dimension: pairs screened with tinned copper braid
Inner sheath:	special Polymer
Stranding:	cores or pairs
Stranding:	cores/pairs twisted together in layers
Wrapping:	one non-woven tape or non-woven tape and PETP foil
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface or PU acc. to UL 758
Sheath colour:	green (RAL 6018)

Technical Data:

Peak operating voltage:	max. 30 V
Voltage UL:	30 V
Testing voltage:	750 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
continuously flexible:	12 x d
Radiation resistance:	5×10^7 cJ/kg
Temperature range	DIN VDE UL: up to +80°C
fixed laying:	-40/+70 °C
flexible application:	-20/+70 °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. or oilrating 60°C acc. to UL 758
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:



- UL recognized
- good EMC characteristics
- flexible installation
- oil resistant
- long service life
- adhesion-free installation
- halogen-free
- labs uncritical
(labs = enamel moisture interfering substances)
- DESINA® colours

suitable for resolvers
and shaft encoders

Sheath material TMPU acc. to DIN VDE 0282

item no.	dimensions	sheath colour	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
08390114	3 x (2 x 0,14) D + 2 x (0,50) D	green	0,11/0,16	9,2 ± 0,4	68,2	106
08390214	3 x (2 x 0,14) D + 4 x 0,14 + 2 x 0,50	green	0,11/0,16	9,0 ± 0,4	63,7	101
08391050	3 x (2 x 0,14) D + 4 x 0,14 + 4 x 0,22 + 2 x 0,50	green	0,11/0,16	9,6 ± 0,4	79,0	114
08390138	4 x 2 x 0,38 + 4 x 0,50	green	0,11/0,16	8,8 ± 0,4	72,2	111
08390318	8 x 2 x 0,18	green	0,11	7,8 ± 0,4	48,0	77
08390122	12 x 0,22	green	0,11	6,7 ± 0,4	42,5	66

Other dimensions and colours are possible on request.

DESINA

Sheath material PU acc. to UL 758

item no.	dimensions	sheath colour	largest single wire ø mm	outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
08390118	4 x 0,18	green	0,11	4,9 ± 0,4	18,9	30
08390218	4 x 2 x 0,18	green	0,11	6,3 ± 0,4	30,8	50
08390115	2 x 2 x 0,15 + 2 x 0,38 (Siemens / DRIVE CLIQ cable)	green	0,11/0,16	6,9 ± 0,3	46,1	67
08390220	2 x 2 x 0,20 + 2 x 0,38 (Siemens / DRIVE CLIQ cable)	green	0,11/0,16	6,9 ± 0,3	34,9	61

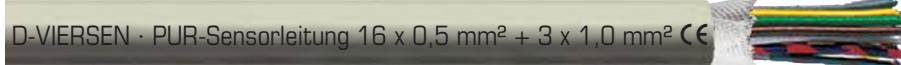
Other dimensions and colours are possible on request.

DESINA

SENSOR-/ACTUATOR CABLES

PUR-Sensorleitung

suitable for cable tracks



Marking for PUR Sensor cable 07489001:

SAB BRÖCKSKES · D-VIERSEN · PUR-Sensorleitung 16 x 0,5 mm² + 3 x 1,0 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	SABIX®
Colour code:	acc. to colour code Euchner
Stranding:	specially adjusted layering
Wrapping:	non-woven tape
Sheath material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Sheath colour:	grey (RAL 7000)

Outstanding features:

- halogen-free
- small outer diameter
- suitable for cable tracks
- high abrasion resistance
- very good flexibility



PUR Sensor cable also possible
with reticulated by irradiation
outer sheath! Item group 0355

Technical Data:

Nominal voltage Uo/U:	300/500 V
Alternating test voltage:	core/core 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 ⁶ cJ/kg
Temperature range	
fixed laying:	-40/+90 °C
flexible application:	-20/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
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.
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section	outer-Ø	copper	cable	ohmic
		n x mm ²	mm	kg/km	resistance at 20°C max. Ω/km
07489001	16 x 0,50 3 x 1,00	11,7 ± 0,3	105,6	168	39,0 19,5
07489002	9 x 0,50 3 x 1,00	9,5 ± 0,3	72,0	117	39,0 19,5

Other dimensions and colours are possible on request.

DATA CABLES

Optical waveguide

1 x POF



SAB BRÖCKSKES · D-VIERSEN · POF-ADERLEITUNG 06709001



Marking 06709001:

SAB BRÖCKSKES · D-VIERSEN · POF-ADERLEITUNG 06709001

Construction:

Optical waveguide:	POF
Colour code:	black
Strain relief:	aramid wrapping
Sheath material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Sheath colour:	blazing red (RAL 3000)

Technical Data:

Bending radius	
short time use:	> 30 mm (with installation, not operating)
continuously:	> 80 mm
continuously in cable track:	> 100 mm
Strain relief:	max. 1680 N
Temperature range	
storage:	-20/+70 °C
operation:	0/+70 °C
Specific impedance:	0,2 dB/m at 650 n/m
Reversed bending strength:	> 100.000 cycles ± 90°; r=100 mm; drawing force 2 N
Bending attenuation:	additionally 0,2 dB/m for 10 windings with r=50 mm
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	outer diameter mm	weight approx. kg/km
06709001	6,00 ± 0,20	30,0

Other dimensions and colours are possible on request.

Outstanding features:

- insensitive against electromagnetic interferences
- flexible
- high abrasion resistance
- good reversed bending strength

POF: polymer optical fibre

TRAY CABLES

high-flex
NFPA 79 for
industrial machinery

WTTC
approval

TR 600 Auto black Type TC, MTW und WTTC

UV and oil resistant, flexible Tray Cable and Machine-Tool Cable with black cores, suitable for cable tracks



Marking for TR 600 Auto black 32121625:

SAB BRÖCKSKES · D-VIERSEN · TR 600 Auto black 16 AWG/25c 32121625 TFFN c(UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 c(UL) WTTC 90°C 1000V c(UL) MTW 16 AWG/25c 600V flexing AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE



Construction:

Conductor:	bare copper strands with reference to IEC 60228 class 6
Insulation:	special formulated PVC/Nylon
Colour code:	black cores with consecutive white numbers; green-yellow earth wire from 3 cores
Stranding:	in layers
Sheath material:	special sunlight and oil resistant PVC
Sheath colour:	black (RAL 9005)

Outstanding features:

- flexible cable for cable tray use
- oil resistant
- sunlight resistant
- NFPA 79 for industrial machinery
- WTTC approval
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed
- EAC approval

Technical Data:

Voltage:	UL-AWM / (UL) / c(UL): 600 V (UL) WTTC: 1000 V
Testing voltage:	4000 V
Min. bending radius <i>fixed laying:</i>	< 12 mm = 3 x d > 12 mm = 4 x d
flexible application:	< 12 mm = 5 x d > 12 mm = 6 x d continuously flexible: 10 x d
Radiation resistance:	8×10^7 cJ/kg
Temperature:	UL-AWM: up to +105°C (UL) / c(UL): up to +90°C <i>fixed laying:</i> -25°C
Fire performance:	(UL) FT4 and c(UL) FT1, FT2, FT4
Oil resistance I:	yes
Sunlight resistance:	yes
Exposed Runs:	yes
Direct Burial:	yes
Machinery Area:	yes
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
32121803	3 x 18	0,16	7,7	28,8	84
32121804	4 x 18	0,16	8,3	38,4	100
32121805	5 x 18	0,16	9,0	48,0	125
32121807	7 x 18	0,16	10,5	67,2	165
32121809	9 x 18	0,16	11,9	86,4	210
32121812	12 x 18	0,16	12,5	115,2	232
32121816	16 x 18	0,16	14,6	153,6	316
32121818	18 x 18	0,16	15,3	172,8	350
32121819	19 x 18	0,16	16,0	182,4	376
32121825	25 x 18	0,16	18,1	240,0	460
32121603	3 x 16	0,16	8,3	43,2	105
32121604	4 x 16	0,16	9,0	57,6	129
32121605	5 x 16	0,16	9,8	72,0	150
32121607	7 x 16	0,16	11,5	100,8	211
32121608	8 x 16	0,16	12,3	115,2	243

item no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
32121609	9 x 16	0,16	13,1	129,6	270
32121612	12 x 16	0,16	14,5	172,8	324
32121616	16 x 16	0,16	16,0	230,4	410
32121618	18 x 16	0,16	16,8	259,2	453
32121619	19 x 16	0,16	17,6	273,6	490
32121625	25 x 16	0,16	19,9	360,0	604
32121403	3 x 14	0,16	9,9	72,0	153
32121404	4 x 14	0,16	10,7	96,0	184
32121405	5 x 14	0,16	11,7	120,0	230
32121407	7 x 14	0,16	14,5	168,0	334
32121409	9 x 14	0,16	16,5	216,0	431
32121412	12 x 14	0,16	17,4	288,0	479
32121418	18 x 14	0,16	20,3	432,0	690
32121425	25 x 14	0,16	25,3	600,0	966
32121007	7 x 10	0,21	18,7	369,6	583

Other dimensions and colours are possible on request.

TRAY CABLES

Ford
approved

WTTC
approval

TR 600 HD

Type WTTC Heavy Duty Tray Cable

TR 600 C HD

Type WTTC Heavy Duty Tray Cable with overall copper screen



Marking for TR 600 HD 32301604:

SAB NORTH AMERICA TR 600 HD 16 AWG (1.5 mm²)/4c P/N 32301604 TC-ER 90C DRY 75C WET 600V OIL RES I/II SUN RES DIR BUR 14
OR WTTC 1000V OR AWM 21270 105C 600V OR cUL CIC-TC PVC/N 600V FT4 CSA AWM I/II A/B 90C 600V FT4 RoHS CE

Construction:

Conductor:	bare copper strands acc. to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5 from 18 AWG - 12 AWG, from 10 AWG - 2 AWG class k acc. to ASTM B 172
Insulation:	special formulated PVC/Nylon
Colour code:	black cores with consecutive white numbers and a green-yellow earth wire *alpha-numeric alternate and inverted, i.e. 1-ONE
Stranding:	in layers
Inner sheath:	TR 600 C HD: PVC, black
Screen:	TR 600 C HD: tinned copper braiding
Sheath material:	TPE
Sheath colour:	orange (RAL 2003) also available in grey or black

Technical Data:

Voltage UL-AWM / (UL) / c(UL): (UL) WTTC:	600 V 1000 V
Testing voltage:	4000 V
Min. bending radius:	7,5 x d
Temperature:	UL-AWM: up to +105°C (UL) / c(UL): -40/+90°C
Cold Bend Test:	-40°C
Fire performance:	(UL) FT4 + c(UL) FT1, FT2, FT4
Oil resistance I & II:	yes
Exposed Runs:	yes
Absence of harmful substances:	acc. to RoHS directive of the European Union



Outstanding features:

- Heavy Duty Tray Cable and Control and Instrumentation Cable
- UL-AWM recognized for + 105 °C
- extreme oil resistant
- WTTC approval
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed
- CSA listed
- NFPA 79 2012
- c(UL) CIC-TC FT4
- EAC approval



Possible on request!

- with grey or black outer sheath
- as well as blue or red cores

TR 600 HD

item no.	AWG	outer-Ø ± 5% mm	cable weight ≈ kg/km
32301803	18/3c	7,6	82
32301804	18/4c	8,2	99
32301805	18/5c	8,9	118
32301807	18/7c	9,6	149
32301812	18/12c	12,2	234
32301818	18/18c	15,1	363
32301825	18/25c	17,4	474
32301603	16/3c	8,2	104
32301604	16/4c	8,8	120
32301605	16/5c	9,6	143
32301607	16/7c	10,5	247
32301612	16/12c	13,4	292
32301618	16/18c	16,4	446
32301625	16/25c	18,9	588
32301403	14/3c	9,2	131
32301404	14/4c	10,1	137
32301407	14/7c	12,0	251
32301204	12/4c	11,2	223
32301205	12/5c	12,2	271
32301004	10/4c	15,0	369
32300804	8/4c	19,2	573
32300604	6/4c	22,3	863
32300404	4/4c	26,9	1257
32300204	2/4c	31,4	1902
32300104	1/4c	35,6	2388

Other dimensions and colours are possible on request.

TR 600 C HD

item no.	AWG	outer-Ø ± 5% mm	cable weight ≈ kg/km
32401803	18/3c	9,7	147
32401804	18/4c	9,7	131
32401805	18/5c	10,9	187
32401807	18/7c	11,6	233
32401812	18/12c	15,1	372
32401818	18/18c	17,6	524
32401825	18/25c	19,7	742
32401603	16/3c	10,2	166
32401604	16/4c	10,4	159
32401605	16/5c	11,6	229
32401607	16/7c	12,3	271
32401612	16/12c	16,1	488
32401618	16/18c	18,9	632
32401625	16/25c	22,2	846
32401403	14/3c	11,3	205
32401404	14/4c	12,1	221
32401407	14/7c	14,7	382
32401204	12/4c	13,2	323
32401205	12/5c	15,0	404
32401004	10/4c	17,6	544
32400804	8/4c	22,7	868
32400604	6/4c	25,7	1180
32400404	4/4c	30,3	1722
32400204	2/4c	34,5	2393
32400104	1/4c	39,0	4189

Other dimensions and colours are possible on request.

CONTROL AND CONNECTION CABLES

SABIX® A 260 PUR

halogen-free, cold and oil resistant control cable with numbered cores

KES · D-VIERSEN · SABIX A 260 PUR 7 x 1,5 mm² CE



Marking for SABIX A 260 PUR 52600715:
SAB BRÖCKSKES · D-VIERSEN · SABIX A 260 PUR 7 x 1,5 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	SABIX®
Colour code:	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
Stranding:	in layers
Inner sheath:	SABIX® - from 4,0 mm ²
Sheath material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Sheath colour:	grey (RAL 7000)

Technical Data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
Min. bending radius <i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
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

Outstanding features:

- halogen-free
- oil resistant
- flexible at low temperatures
- weather resistant
- EAC approval

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
52600207	2 x 0,75	0,21	5,6	14,4	39
52600307	3 x 0,75	0,21	5,9	21,6	47
52600407	4 x 0,75	0,21	6,4	28,8	57
52600507	5 x 0,75	0,21	7,0	36,0	68
52600707	7 x 0,75	0,21	7,6	50,4	87
52601007	10 x 0,75	0,21	9,6	72,0	119
52601207	12 x 0,75	0,21	10,3	86,4	145
52601807	18 x 0,75	0,21	12,0	129,6	206
52602507	25 x 0,75	0,21	14,7	180,0	284
52600210	2 x 1,00	0,21	5,8	19,2	44
52600310	3 x 1,00	0,21	6,1	28,8	54
52600410	4 x 1,00	0,21	6,6	38,4	66
52600510	5 x 1,00	0,21	7,3	48,0	81
52600710	7 x 1,00	0,21	7,9	67,2	103
52601010	10 x 1,00	0,21	10,4	96,0	143
52601210	12 x 1,00	0,21	10,7	115,2	173
52601810	18 x 1,00	0,21	12,5	172,8	247
52602510	25 x 1,00	0,21	15,3	240,0	341
52600215	2 x 1,50	0,26	6,4	28,8	57
52600315	3 x 1,50	0,26	6,8	43,2	72
52600415	4 x 1,50	0,26	7,4	57,6	88
52600515	5 x 1,50	0,26	8,1	72,0	107
52600715	7 x 1,50	0,26	8,8	100,8	139

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
52601015	10 x 1,50	0,26	11,6	144,0	191
52601215	12 x 1,50	0,26	12,0	172,8	233
52601815	18 x 1,50	0,26	14,0	259,2	336
52602515	25 x 1,50	0,26	17,0	360,0	451
52600225	2 x 2,50	0,26	7,6	48,0	86
52600325	3 x 2,50	0,26	8,5	72,0	114
52600425	4 x 2,50	0,26	8,8	96,0	135
52600525	5 x 2,50	0,26	10,1	120,0	172
52600725	7 x 2,50	0,26	11,0	168,0	224
52601025	10 x 2,50	0,26	14,0	240,0	311
52601225	12 x 2,50	0,26	14,9	288,0	373
52601825	18 x 2,50	0,26	17,4	432,0	539
52602525	25 x 2,50	0,26	21,7	600,0	755
52600340	3 x 4,00	0,31	11,7	115,2	198
52600440	4 x 4,00	0,31	12,6	153,6	243
52600540	5 x 4,00	0,31	13,7	192,0	293
52600360	3 x 6,00	0,31	14,0	172,8	290
52600460	4 x 6,00	0,31	15,1	230,4	357
52600560	5 x 6,00	0,31	16,4	288,0	431
52600461	4 x 10,0	0,41	18,9	384,0	582
52600561	5 x 10,0	0,41	20,6	480,0	709
52600462	4 x 16,0	0,41	22,2	614,4	851
52600562	5 x 16,0	0,41	24,4	768,0	1041

Other dimensions and colours are possible on request.

REMOTE/INSTALLATION REMOTE BUS CABLES

S IBS 618 PUR Interbus-S cable
for cable tracks with UL recognition

SABIX® IBS 610 halogen-free
Interbus-S cable

SABIX® IBS 610 FRNC halogen-free, flame retardant Interbus-S cable



Marking for S IBS 618 06186251:

SAB BRÖCKSKES · D-VIERSEN · S IBS 618 3 x 2 x 0,25 mm² + 3 x 1,0 mm² PUR AWM Style 20235 80°C CE



General construction:

Colour code:	acc. to DIN VDE 47100 (pairs), 1,0 mm ² : red, blue and a green-yellow earth wire
Stranding:	twisted to pairs ($\leq 0,25$ mm ²)
Screen:	tinned copper braiding

Technical Data:

Peak operating voltage:	max. 350 V
Testing voltage:	1500 V
Min. bending radius:	7,5 x d
Halogen-free:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Characteristic impedance at 0.064 MHz:	120 Ω ± 20%
Characteristic impedance at > 1 MHz:	100 Ω ± 15 Ω
Absence of harmful substances:	acc. to RoHS directive of the European Union



	S IBS 618*	SABIX® IBS 610	SABIX® IBS 610 FRNC
Conductor:	0,25 mm ² : bare copper strands with reference to DIN VDE 0812 1,00 mm ² : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6	0,22 mm ² : bare copper strands with reference to DIN VDE 0812 1,00 mm ² : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6	
Core insulation:	PE, 2YI1 with reference to DIN VDE 0207 part 2	SABIX®	
Wrapping:	non-woven tape	PETP foil	
Outer sheath, colour redlilac (RAL 4001):	PUR, TMPU acc. to DIN VDE 0282 part 10, with rough surface	SABIX®	
Voltage acc. to UL:	300 V	–	
Radiation resistance:	5 x 10 ⁶ cJ/kg	5 x 10 ⁶ cJ/kg	–
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	UL: up to +80°C -40/+70°C -40/+70°C	-50/+90°C -40/+90°C	-40/+85°C -30/+85°C
Fire performance: no flame propagation acc. to IEC 60332-3 and EN 60332-3 Cat. C resp. D	–	–	X
Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2	X	–	X
Corrosiveness of conflagration gases: in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	–	–	X
Smoke density:	–	–	acc. to IEC 61034 and EN 61034
Oil resistance:	very good - TMPU gem. DIN VDE 0282 part 10	very good - TM5 gem. DIN VDE 0281 part 1	–
Flexibility:	very good	–	good
Application in cable tracks:	recommended	not recommended	
Weather resistance:	very good	good	
Bending characteristic: number of bendings min. 1.000.000 DIN VDE 0472 part 603 test method H	min. 1.000.000 single bendings	–	
UL Style:	20235-80°C	–	

item no.	type	no. of pairs x cross section mm ²	outer-Ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
06183251	S IBS 618	3 x 2 x 0,25	8,5	35,9	82
56103221	SABIX® IBS 610	3 x 2 x 0,22	7,0	31,3	53
66103221	SABIX® IBS 610 FRNC	3 x 2 x 0,22	7,0	31,3	62

Other dimensions and colours are possible on request.

Remote bus cables

* Interbus-S remote bus cables
3 x 2 x 0,22 mm² or 3 x 2 x 0,25 mm² are used for the sensor/actuator level of industrial communication

item no.	type	no. of pairs/cores x cross section mm ²	outer-Ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
06186251	S IBS 618	3 x 2 x 0,25 + 3 x 1,00	9,2	71,0	121
56106221	SABIX® IBS 610	3 x 2 x 0,22 + 3 x 1,00	7,9*	62,0	84
66106221	SABIX® IBS 610 FRNC	3 x 2 x 0,22 + 3 x 1,00	7,9*	62,0	94

Other dimensions and colours are possible on request.

* max. 8,0 mm

Installation remote bus cables

* Interbus-S installation remote bus cables
3 x 2 x 0,22 mm² + 3 x 1,0 mm² or 3 x 2 x 0,25 mm² + 3 x 1,0 mm² are used for the sensor/actuator level of industrial communication



PROFIBUS-DP CABLES acc. to EN 50170

S PB 634 PUR Profibus-DP cable
for cable tracks

PB 632 flexible PVC Profibus-DP cable

PB 633 halogen-free, flexible PE Profibus-DP cable



Marking for PB 632 06322341:
SAB BRÖCKSKES · D-VIERSEN · PB 632 2 x 0,34 mm² CE

General construction:

Colour code:	red, green (0,34 mm ²); brown, light blue and green-yellow earth wire (1,0 mm ²)
Pairwise screening:	tinned copper braiding
Stranding:	in layers

Technical Data:

Peak operating voltage:	max. 350 V
Testing voltage:	1500 V
Min. bending radius:	12 x d
Characteristic impedance 3 - 20 MHz:	150 Ω ± 10%
Absence of harmful substances:	acc. to RoHS directive of the European Union

	S PB 634	PB 633	PB 632
Conductor:	0,34 mm ² : bare copper strands acc. to DIN VDE 0812 1,00 mm ² : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6		0,34 mm ² : bare copper strands acc. to DIN VDE 0812 1,00 mm ² : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Pairwise wrapping:	non-woven tape/Alu foil, non-woven tape		Alu foil, PETP foil
Pairwise sheathing:	TPE		-
Core insulation:	0,34 mm ² : DIN VDE 0819 part 103 (02Y11) 1,00 mm ² : TPE	0,34 mm ² : DIN VDE 0819 part 103 (02Y11) 1,00 mm ² : PE, 2Y11 acc. to DIN VDE 0207 part 2	0,34 mm ² : DIN VDE 0819 part 103 (02Y11) 1,00 mm ² : PVC, TI2 acc. to DIN VDE 0281 part 1
Outer sheath, redlilac (RAL 4001):	PUR, TMPU acc. to DIN VDE 0282 part 10 with rough surface	PE, 2YM1 acc. to DIN VDE 0207 part 3	PVC, TM1 acc. to DIN VDE 0281 part 1
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	-40/+80°C -40/+80°C	-40/+70°C -40/+70°C	-30/+70°C -5/+70°C
Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2		-	X
Corrosiveness of conflagration gases: in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	-	X	-
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10	-	acc. to internal standard
For fixed installation:		X	
For flexible application:		X	
Suitable for cable tracks:	X	-	
Weather resistance:	very good	good	medium

item no..	type	no. of cores x cross section mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
06342341	S PB 634	2 x 0,34	7,6	30,9	58
06344341	S PB 634	2 x 0,34 + 3 x 1,00	10,2	58,8	108
06332341	PB 633	2 x 0,34	7,5	25,8	50
06334341	PB 633	2 x 0,34 + 3 x 1,00	10,1	58,8	101
06322341	PB 632	2 x 0,34	7,5	25,8	56
06324341	PB 632	2 x 0,34 + 3 x 1,00	10,1	58,8	122

Other dimensions and colours are possible on request.

PROFIBUS-DP and **PROFIBUS-FMS** apply the same transmission technology and a uniform bus access log. Therefore, both types can be used simultaneously on one cable.

PROFIBUS-DP CABLES acc. to EN 50170

with
„Fast Connect“
construction

PB 640 flexible PVC Profibus-DP cable

PB 640 UL flexible PVC Profibus-DP cable with UL recognition

S PB 640 highly flexible PUR Profibus-DP cable

S PB 640 UL highly flexible PUR Profibus-DP cable with UL recognition



Marking for S PB 640 06402601:

SAB BRÖCKSKES · D-VIERSEN · S PB 640 · 24 AWG/2c 06402601 CE



General construction:

Conductor:	bare copper wires AWG 24
Core insulation:	acc. to DIN VDE 0819 part 103 (02YI1)
Colour code:	red, green
Stranding:	in layers
Wrapping:	alu foil and tinned copper braiding

Technical Data:

Peak operating voltage:	max. 350 V
Testing voltage:	1500 V
Min. bending radius:	12 x d
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Characteristic impedance 3 - 20 MHz:	150 Ω ± 10%
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:



- short assembling time
- avoidance of connection errors
- EAC approval

	PB 640	PB 640 UL	S PB 640	S PB 640 UL
Inner sheath, nature:	PVC		SABIX®	
Outer sheath, redlilac (RAL 4001):	PVC, TM2 acc. to DIN VDE 0281 part 1		PUR, TMPU acc. to DIN VDE 0282 part 10 with matt surface	
Voltage acc. to UL:	-	300 V	-	30 V
Temperature range fixed laying: flexible application:	-30/+70°C -5/+70°C	UL: up to +80°C -30/+70°C -5/+70°C	-40/+80°C -30/+80°C	UL: up to +60°C -40/+80°C -30/+80°C
Halogen-free:	-		acc. to DIN VDE 0472 part 815 + IEC 60754-1	
Oil resistance:	acc. to internal standard		very good - TMPU acc. to DIN VDE 0282 part 10	
For fixed installation:			X	
For flexible application:			X	
Suitable for cable tracks:	-		X	
UL Style:	-	X	-	X

item no.	type	no. of cores x AWG	outer-Ø ± mm	copper figure kg/km	cable weight ≈ kg/km
06402421	PB 640	2 x AWG 24	8,0 ± 0,4	31,2	63
06402631	PB 640 UL	2 x AWG 24	8,0 ± 0,4	31,2	62
06402601	S PB 640	2 x AWG 24	8,0 ± 0,4	31,2	57
06402611	S PB 640 UL	2 x AWG 24	8,0 ± 0,4	31,2	62

Other dimensions and colours are possible on request.

PROFIBUS-DP and **PROFIBUS-FMS** apply the same transmission technology and a uniform bus access log. Therefore, both types can be used simultaneously on one cable.

**short assembling time
by „Fast Connect“
construction**



INDUSTRIAL ETHERNET CABLES CAT 5

with
„Fast Connect“
construction

S PN 667

PUR Ethernet cable type C, continuously flexible with UL recognition, CSA approval



Marking for S PN 667:

SAB BRÖCKSKES · D-VIERSEN · S PN 667 Industrial Ethernet FC Cat 5 Typ C 2x2x22AWG RAL AWM Style 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE

Construction:

Conductor:	tinned copper strands, 7 wires
Core Insulation:	special polymer
Colour code:	blue, yellow, white, orange
Stranding:	in layers
Wrapping:	PETP foil
Inner sheath:	thermoplastic material
Wrapping:	alu foil
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Sheath material:	PUR
Sheath colour:	green (similar RAL 6018)

Technical Data:

Peak operating voltage:	max. 350 V
Voltage UL/CSA:	300 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Min. bending radius <i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	15 x d
Temperature range <i>fixed laying:</i>	UL/CSA: up to +80 °C -30/+70 °C
<i>flexible application:</i>	-20/+70 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Characteristic impedance:	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency acc. to EN 50288-2-2 (CAT 5 acc. to EN 50173-1)
Oil resistance:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	type	no. of cores	cross section	core-Ø max. mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	ohmic resistance at 20°C acc. to VDE 0812 max.Ω/km
06672202	S PN 667	4	22	1,55	6,5 ± 0,2	33,8	60	58,8

Other dimensions and colours are possible on request.

For extremely during multiple-shift operation - conductor construction 19 wires:

item no.	type	no. of cores	cross section	core-Ø max. mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	ohmic resistance at 20°C acc. to VDE 0812 max.Ω/km
06679001	S PN 667	4	22	1,55	6,5 ± 0,2	33,8	58	58,8

Other dimensions and colours are possible on request.



**kurze Montagezeiten
durch „Fast Connect“
Leitungsaufbau (7 wires)**

INDUSTRIAL ETHERNET CABLES CAT 5

S PN 668 Profinet cable type C, continuously flexible

PN 661 Profinet cable type B,
for flexible applications with UL recognition

S PN 669

Profinet cable type C, continuously flexible
with UL recognition

S PN 681

Ethernet cable type C, continuously flexible



Marking for S PN 681:

SAB BRÖCKSKES · D-VIERSEN · S PN 681 CAT 5 Typ C 4x2x26AWG CE

Construction:	S PN 668 Profinet type C continuously flexible	S PN 669 Profinet type C continuously flexible	PN 661 Profinet type B flexible	S PN 681 Ethernet type C continuously flexible
Dimension:	2 x 2 x 22 AWG		4 x 2 x 26 AWG	
Conductor:	tinned copper strands, fine wires		bare copper strands, fine wires acc. to VDE 0812	tinned copper strands, fine wires
Core insulation:	PE		PE, L/MD acc. to DIN VDE 0819 part 103	SABIX®
Colour code:	blue, yellow, white, orange		white cores with numbers 1 - 4 (+ blue, orange, green, brown)	
Stranding:	in layers		twisted pairs	
Wrapping:	PETP foil		non-woven tapes + alu foil	
Inner sheath:	thermoplastic material		—	
Wrapping:	alu foil		—	
Screen:	tinned copper braiding		—	
Wrapping:	non-woven tape		—	
Outer sheath:	PUR	SABIX®	PUR	
Sheath colour:	green (similar RAL 6018)		—	

Technical Data:	S PN 668 Profinet type C continuously flexible	S PN 669 Profinet type C continuously flexible	PN 661 Profinet type B flexible	S PN 681 Ethernet type C continuously flexible
Item number:	0668-2202	0669-2202	0661-2202	0681-2604
Peak operating voltage VDE:	max. 350 V			
Voltage UL:	—	300 V	—	
Testing voltage:	core/core 1500 V - core/screen 1200 V			
Temperature range VDE fixed laying: flexible application:	- 40°C / + 70°C - 30°C / + 70°C	UL: up to + 80°C - 30°C / + 70 °C - 20°C / + 70 °C	UL: up to + 75°C - 40°C / + 70 °C - 30°C / + 70 °C	- 40°C / + 90°C - 30°C / + 90°C
Min. bending radius fixed laying: flexible application: continuously flexible:	5 x d 10 x d 15 x d		5 x d 12 x d	5 x d 10 x d 12 x d
Characteristic impedance:	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency acc. to EN 50288-2-2 (CAT 5 acc. to EN 50173-1)			
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1			
Oil resistance:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10	acc. to internal standard	—	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Absence of harmful substances:	acc. to RoHS directive of the European Union			

item no.	type	no. of cores	cross section	core-Ø max. AWG	outer-Ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	ohmic resistance at 20°C acc. to VDE 0812 max.Ω/km
06682202	S PN 668	4	22	1,55	6,0	33,9	58	58,0
06692202	S PN 669	4	22	1,55	6,9	36,7	69	58,0
06612202	PN 661	4	22	1,55	6,6	36,2	70	58,0
06812604	S PN 681	4	26	1,10	7,2	35,5	58	145

Other dimensions and colours are possible on request.



DRIVE CLIQ Cable
see page 29!

INDUSTRIAL ETHERNET CABLES

CATLine CAT 6 S · CAT 6A S

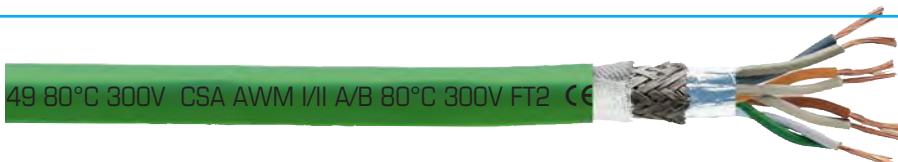
CATLine CAT 6 RT · CAT 6A RT

CAT 6 / CAT 6A Gigabit Ethernet cable

suitable for cable tracks

CAT 6 / CAT 6A Gigabit Ethernet cable

suitable for cable tracks and robots



Marking for CATLine CAT 6 S:

SAB BRÖCKSKES · D-VIERSEN · CATLine Cat.6 S 4x2x26AWG 1677-4630 UL AWM Style 20549 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE

Construction:	CATLine CAT 6 S suitable for cable tracks	CATLine CAT 6A S suitable for cable tracks	CATLine CAT 6 RT suitable for cable tracks/ suitable for robots	CATLine CAT 6A RT suitable for cable tracks/ suitable for robots
Dimension:		4 x 2 x 26 AWG		
Conductor:		bare copper strands, fine wires		
Insulation:		special polymer		
Colour code:		white-blue/blue, white-orange/orange, white-green/green, white-brown/brown		
Stranding:		cores twisted to pairs, pairs together		
Wrapping:		non-woven tape		
Screen:		alu foil		
Screen:		tinned copper braiding		
Wrapping:		non-woven tape		
Sheath material:		PUR		
Sheath colour:		green (similar RAL 6018)		

Technical data:	CATLine CAT 6 S suitable for cable tracks	CATLine CAT 6A S suitable for cable tracks	CATLine CAT 6 RT suitable for cable tracks/ suitable for robots	CATLine CAT 6A RT suitable for cable tracks/ suitable for robots
Item number:	1677-4630	1677-4631	1687-4630	1687-4631
Peak operating voltage:		max. 90 V		
Voltage UL/CSA:		300 V		
Testing voltage:		core/core 1500 V - core/screen 1200 V		
Temperature range VDE fixed laying: flexible application:		UL/CSA: up to + 80°C - 40°C / + 70°C - 40°C / + 70 °C		
Min. bending radius fixed laying: flexible application: continuously flexible:		5 x d 10 x d 15 x d		
Torsion:	---		up to ± 180°/m	
Characteristic impedance (100 MHz):	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-5-2 / CAT 6	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-5-2 / CAT 6	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A
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 Horizontal Flame Test FT2		
Oil resistance:		TPMU acc. to EN 50363-10-2		
Flexibility:		very good		
Absence of harmful substances:		acc. to RoHS directive of the European Union		

item no.	type	no. of cores	cross section	core-Ø max. mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
16774630	CATLine CAT 6 S	8	26	1,05	7,1	32,0	57
16774631	CATLine CAT 6A S	8	26	1,05	7,1	32,0	57
16874630	CATLine CAT 6 RT	8	26	1,05	7,1	32,0	57
16874631	CATLine CAT 6A RT	8	26	1,05	7,1	32,0	57



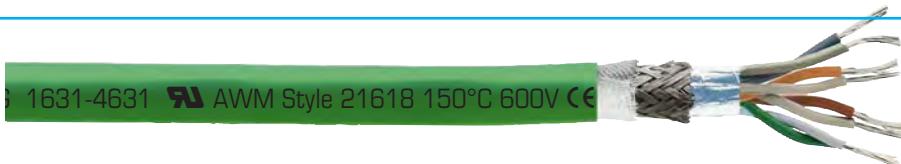
+90°C
on request!

Other dimensions and colours are possible on request.

INDUSTRIAL ETHERNET CABLES

CATLine CAT 6A HT

Gigabit Ethernet cable - high temperature resistant



Marking for CATLine CAT 6A HT:

SAB BRÖCKSKES · D-VIERSEN · CATLine Cat.6A HT 4x2x26AWG 1631-4631 AWM Style 21618 150°C 600V CE



Construction:

Conductor:	bare copper strands, fine wires
Core insulation:	FEP
Colour code:	white/blue, white/orange, white/green, white/brown
Stranding:	twisted to pairs
Wrapping:	non-woven tape
Screen:	alu foil
Screen:	tinned copper braiding
Outer sheath:	FEP
Sheath colour:	green (similar RAL 6018)

Outstanding features:



- high temperature resistant
- low temperature resistant
- flame retardant and self-extinguishing
- oil- and chemical resistant
- UL recognized
- EAC approval

Technical Data:

Peak operating voltage:	max. 90 V
Voltage UL:	600 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
Temperature range	DIN VDE
fixed laying:	-90/+180 °C
flexible application:	-55/+180 °C
Characteristic impedance:	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency acc. to EN 50288-10-2 (CAT 6A)
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2 + UL VW1
Oil resistance:	very good
Chemical resistance:	very good against acids, halogens, bases, chlorinated solvents as well as organic and inorganic compounds
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	type	no. of cores	cross section AWG	core-Ø max. mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
16314631	CATLine CAT 6A HT	4 x 2	26	max. 1,05	5,7	30,0	52

Other dimensions and colours are possible on request.

INDUSTRIAL ETHERNET CABLES

CATLine CAT 7A S

CATLine CAT 7A RT

CAT 7A Gigabit Ethernet cable, suitable for cable tracks
with UL recognition, CSA approval
CAT 7A Gigabit Ethernet cable, suitable for robots
with UL recognition, CSA approval



Marking for CATLine CAT 7A S:

SAB BRÖCKSKES · D-VIERSEN · **CATLine** Cat.7A S 4x2x26AWG 1777-4631 **UL** AWM Style 20549 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 **CE**

Construction:	CATLine CAT 7A S suitable for cable tracks	CATLine CAT 7A RT suitable for robots
Dimension:	4 x 2 x 26 AWG / 4 x 2 x 24 AWG	
Conductor:	bare copper strands, fine wires	
Insulation:	special polymer	
Colour code:	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown	
Stranding:	cores twisted to pairs, pairs screened with foil, pairs together	
Screen:	aluminized non-woven tape	
Screen:	tinned copper braiding	
Wrapping:	non-woven tape	
Sheath material:	PUR	
Sheath colour:	green (similar RAL 6018)	

Technical data:	CATLine CAT 7A S suitable for cable tracks	CATLine CAT 7A RT suitable for robots
Item number:	1777-4631 / 1777-4431	1787-4631 / 1787-4431
Peak operating voltage:		max. 90 V
Voltage UL/CSA:		300 V
Testing voltage:		core/core 1500 V - core/screen 1200 V
Temperature range VDE fixed laying: flexible application:		UL/CSA: up to + 80°C - 40°C / + 70 °C - 40°C / + 70 °C
Min. bending radius fixed laying: flexible application: continuously flexible:	5 x d 10 x d 15 x d	5 x d 10 x d
Torsion:	---	up to ± 180°/m
Characteristic impedance (100 MHz):	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-9-2 / CAT 7A	
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 Horizontal Flame Test FT2
Oil resistance:		TMPU acc. to EN 50363-10-2
Flexibility:		very good
Absence of harmful substances:		acc. to RoHS directive of the European Union

item no.	type	no. of cores	cross section AWG	core-Ø approx. mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
17774631	CATLine CAT 7A S	8	26	1,50	8,8	38,5	80
17774431	CATLine CAT 7A S	8	24	1,60	9,3	43,7	94
17874631	CATLine CAT 7A RT	8	26	1,50	8,8	38,5	80
17874431	CATLine CAT 7A RT	8	24	1,60	9,3	43,7	94

Other dimensions and colours are possible on request.

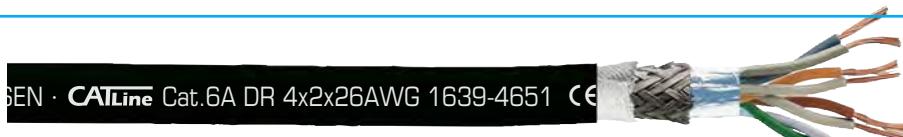


**+90°C
on request!**

INDUSTRIAL ETHERNET CABLES

CATLine CAT 6A DR reeling CAT 6A Gigabit Ethernet cable

CATLine CAT 7A DR reeling CAT 7A Gigabit Ethernet cable



Marking for CATLine CAT 6A DR:

SAB BRÖCKSKES · D-VIERSEN · **CATLine** Cat.6A DR 4x2x26AWG 1639-4651 **CE**



Construction:	CATLine CAT 6A DR reeling Ethernet cable	CATLine CAT 7A DR reeling Ethernet cable
Dimension:	4 x 2 x 26 AWG	
Conductor:	bare copper strands, fine wires	
Insulation:	special polymer	
Colour code:	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown	
Stranding:	cores twisted to pairs, pairs together	cores twisted to pairs, pairs screened with foil, pairs together
Wrapping:	non-woven tape	---
Screen:	alu foil	aluminized non-woven tape
Screen:	tinned copper braiding	
Wrapping:	non-woven tape	
Sheath material:	PUR / supporting braid / PUR	
Sheath colour:	black (RAL 9005)	

Technical data:	CATLine CAT 6A DR reeling Ethernet cable	CATLine CAT 7A DR reeling Ethernet cable
Item number:	1639-4651	1739-4651
Peak operating voltage:	max. 90 V	
Testing voltage:	750 V	
Temperature range VDE fixed laying: flexible application:	- 50°C / + 90 °C - 40°C / + 90 °C	
Min. bending radius	for laying and installation (fixed laying): 5 x d for repeated winding action (flexible): 10 x d guided on deflection pulleys (flexible): 12 x d	
Characteristic impedance (100 MHz):	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-9-2 / CAT 7A
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1	
Weather resistance:	very good	
Oil resistance:	TMPU acc. to EN 50363-10-2	
Absence of harmful substances:	acc. to RoHS directive of the European Union	

item no.	type	no. of cores	cross section	core-Ø max. AWG	outer-Ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	tensile strength max. N
16394651	CATLine CAT 6A DR	8	26	1,05	8,7	32,0	81	200
17394651	CATLine CAT 7A DR	8	26	1,60	10,5	38,5	117	200

Other dimensions and colours are possible on request.

HARNESS CABLES

harnessed Profinet cable

suitable for cable tracks with M12 plug connectors



For the field bus wiring of Profinet field bus systems in industrial sectors. This cable type is used for example in cable chain applications for automation and machine and plant construction with rough environments. The PUR outer sheath is resistant against rough environmental conditions.

Construction:

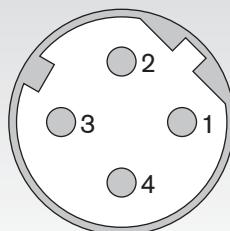
Conductor:	tinned copper strands
Core insulation:	special polymer
Screen:	alu foil and tinned copper braiding
Outer sheath:	PUR
Sheath colour:	green (RAL 6018)

Technical Data:

Min. bending radius:	continuously flexible 15 x d
Temperature range	
fixed laying:	-30/+70°C
flexible application:	-20/+70°C
Special feature:	Characteristic impedance $100\Omega \pm 10\Omega$ CAT 5 with reference to EN 50173-1, oil resistant, suitable for cable tracks

Pin configuration:

Pin1:	yellow
Pin2:	white
Pin3:	orange
Pin4:	blue
Housing:	screen



Plug types:

- q M12 plug(male) 4-pole, D-coded
- q M12 socket (female) 4-pole, D-coded
straight or tilted
moulded or mounted

HARNESS CABLES

harnessed Profibus cable

suitable for cable tracks with M12 plug connectors



For the field bus wiring in automation technique. These bus cables transfer Profibus signals with different cable and plug combinations. The PUR cable for cable chain applications is resistant against rough environmental conditions in industrial applications.

Construction:

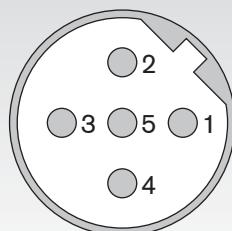
Conductor:	bare copper strands
Core insulation:	TPK
Screen:	alu foil and tinned copper braiding
Outer sheath:	PUR
Sheath colour:	red lilac (RAL 4001)

Technical Data:

Min. bending radius:	continuously flexible 12 x d
Temperature range <i>fixed laying:</i>	-40/+80°C
<i>flexible application:</i>	-40/+80°C
Special feature:	Characteristic impedance at 3 - 20 MHz: $150\Omega \pm 10\%$ with reference to EN 50170, oil resistant, suitable for cable tracks

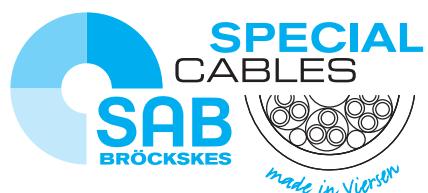
Pin configuration:

Pin1:	n.b.
Pin2:	green
Pin3:	n.b.
Pin4:	red
Pin5:	n.b.
Housing:	screen



Plug types:

- q M12 plug(male) 5-pole, B-coded
- q M12 socket (female) 4-pole, D-coded
straight or tilted
moulded or mounted



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