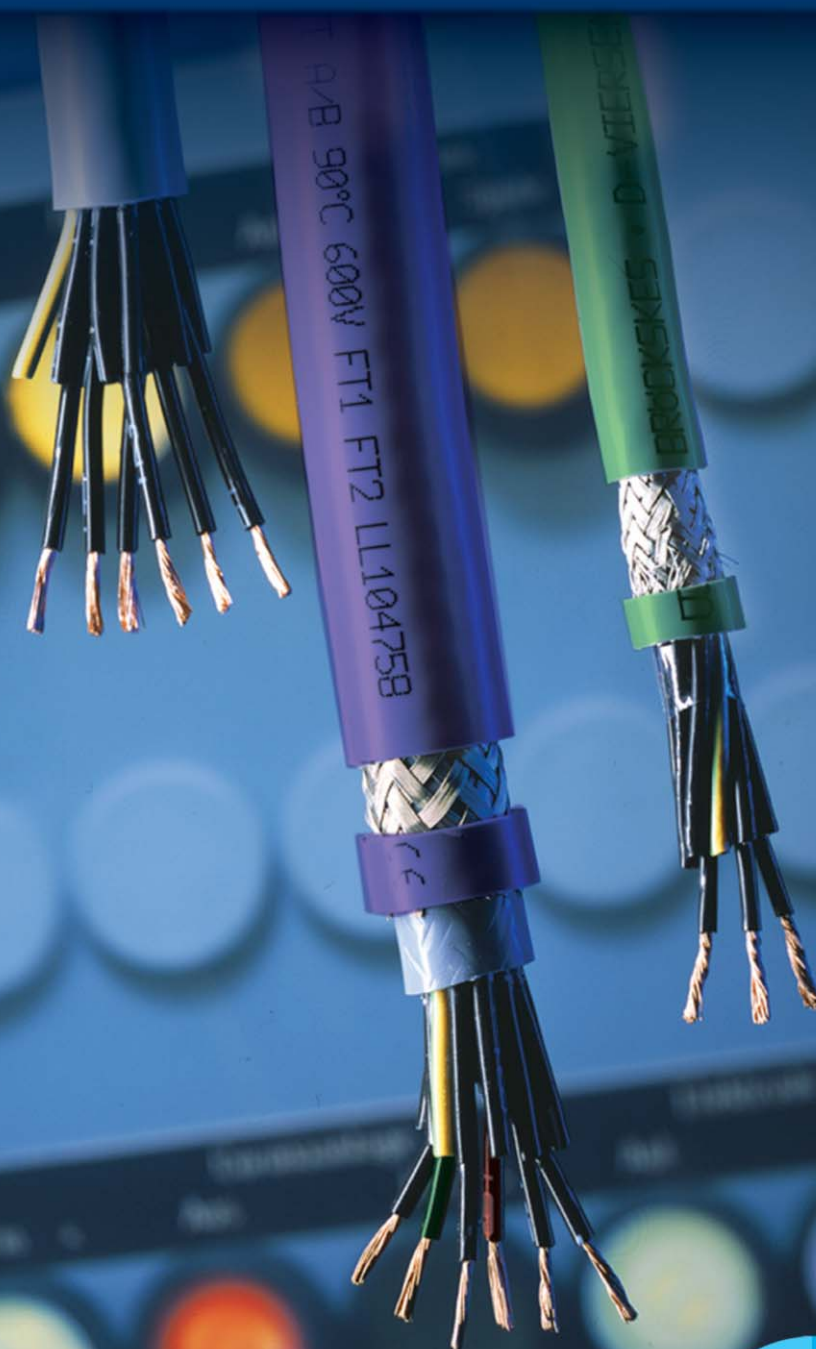


# Cables for automation industry



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## Cable Track Cables

page

▲ SD 200	extremely flexible TPE/PUR data cable with coloured cores for continuous movement . . . . .	6
▲ S 200	extremely flexible TPE/PUR control cable with numbered cores for continuous movement . . .	7
▲ SD 200 C	continuously flexible TPE/PUR data cable with coloured cores and overall copper screen . . . . .	8
▲ S 200 C	continuously flexible TPE/PUR control cable with numbered cores and overall copper screen . . . . .	9
▲ SD 200 C TP	continuously flexible paired TPE/PUR data cable with coloured cores and overall copper screen . . . . .	10
▲ S 910 P	continuously flexible TPE/PUR single conductor <b>UL/CSA</b> . . . . .	11
▲ S 910 CP	continuously flexible TPE/PUR single conductor with overall copper screen <b>UL/CSA</b> . . . . .	11
▲ SD 980 P	continuously flexible TPE/PUR data cable with coloured cores <b>UL/CSA</b> . . . . .	12
▲ S 980 P	continuously flexible TPE/PUR control cable with numbered cores <b>UL/CSA</b> . . . . .	13
▲ SD 980 CP	continuously flexible TPE/PUR data cable with coloured cores and overall copper screen <b>UL/CSA</b> . . . . .	14
▲ S 980 CP	continuously flexible TPE/PUR control cable with numbered cores and overall copper screen <b>UL/CSA</b> . . . . .	15
▲ SD 980 CP TP	continuously flexible paired TPE/PUR data cable with coloured cores and overall copper screen <b>UL/CSA</b> . . . . .	16

## Servo Cables

▲ SL 801 C	combined TPE/PUR motor connection cable with overall copper screen 0.6/1 kV . . . . .	17
▲ SL 841 C	combined TPE/PUR motor connection cable with overall copper screen 0.6/1 kV <b>UL/CSA</b> . . . . .	18
▲ SL 823 C	PUR motor connection cable with TPE cores and overall copper screen 0.6/1 kV . . . . .	19
▲ SL 833 C	PUR motor connection cable with TPE cores and overall copper screen 0.6/1 kV <b>UL/CSA</b> . . . . .	20
▲ SL 802 C	TPE/PUR feedback cable with overall copper screen . . . . .	21
▲ SL 803 C	TPE/PUR transmission cable with overall copper screen . . . . .	21
▲ SL 842 C	TPE/PUR feedback cable with overall copper screen <b>UL/CSA</b> . . . . .	22
▲ SL 843 C	TPE/PUR transmission cable with overall copper screen <b>UL/CSA</b> . . . . .	22
▲ SL 839 C	PUR transmission cable with overall copper screen <b>UL</b> . . . . .	23

## Sensor-/Actuator Cables

▲ Sensor cable	suitable for cable tracks . . . . .	24
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## Torsion Cables

	page
▲ RT 123 PUR torsion cable, torsion angle up to $\pm 450^\circ$ over 0.5 m <b>UL/CSA</b> .....	25
▲ RT 123 D PUR torsion cable with overall copper screen, torsion angle up to $\pm 450^\circ$ over 0.5 m <b>UL/CSA</b> .....	25

## Tray Cables

▲ TR 600 Auto black Type TC, MTW and WTTC UV and oil resistant, flexible Tray Cable and Machine-Tool Cable with black cores, suitable for cable tracks <b>UL/(cUL)</b> .....	26
▲ TR 600 HD Type WTTC Heavy Duty Tray Cable <b>UL/(cUL)</b> .....	27
▲ TR 600 C HD Type WTTC Heavy Duty Tray Cable with overall copper screen <b>UL/(cUL)</b> .....	27



## Data Cables

▲ Optical waveguide 1 x POF .....	28
-----------------------------------	----

## Control and Connection Cables

▲ CC 600 P black/blue/red PUR control cable with numbered black, blue or red cores <b>UL/CSA</b> .....	29
▲ CC 600 CP PUR control cable with numbered cores and overall copper screen <b>UL/CSA</b> .....	30
▲ SABIX® A 260 PUR halogen-free, cold and oil resistant control cable with numbered cores .....	31



## Bus Cables

▲ S IBS 618 PUR Interbus-S remote/installation remote bus cable for cable tracks <b>UL</b> .....	32
▲ SABIX® IBS 610 halogen-free Interbus-S remote/installation remote bus cable .....	32
▲ SABIX® IBS 610 FRNC halogen-free, flame retardant Interbus-S remote/installation remote bus cable .....	32
▲ S PB 634 PUR Profibus-DP cable for cable tracks .....	33
▲ PB 633 halogen-free, flexible PE Profibus-DP cable .....	33
▲ PB 632 flexible PVC Profibus-DP cable .....	33
▲ PB 640 flexible PVC Profibus-DP cable .....	34
▲ PB 640 UL flexible PVC Profibus-DP cable <b>UL</b> .....	34
▲ S PB 640 highly flexible PUR Profibus-DP cable .....	34
▲ S PB 640 UL highly flexible PUR Profibus-DP cable <b>UL</b> .....	34

## Industrial Ethernet cables CAT 5

▲ S PN 668 PUR Profinet cable type C, continuously flexible, suitable for cable tracks .....	35
▲ S PN 669 PUR Profinet cable type C, continuously flexible, suitable for cable tracks <b>UL</b> .....	35
▲ PN 661 halogen-free Profinet cable type B, for flexible applications <b>UL</b> .....	35
▲ S PN 681 PUR cable type C, continuously flexible, suitable for cable tracks, twisted pairs .....	35



- ▲ **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 0,6/1kV
- ▲ **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

Photo: Liebherr Verzahntechnik GmbH



- ▲ **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

Photo: Liebherr Verzahntechnik GmbH

## 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 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Insulation:</b>	TPE 510
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	specially adjusted layering with non-woven tape over the outer layer
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	grey (RAL 7032)

### Outstanding features:

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

### Technical Data:

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

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

item no.	no. of cores x cross section n x mm <sup>2</sup>	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.

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



Single cores on request with green-yellow insulation and black outer sheath or 0.6/1 kV.



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



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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE 510
<b>Colour code from 2 conductors:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	specially adjusted layering with non-woven tape over each layer
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

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

### Technical Data:

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

#### Also available as hybrid cable for example

16 x 0,5 mm<sup>2</sup> + 3 x 1,0 mm<sup>2</sup>

9 x 0,5 mm<sup>2</sup> + 3 x 1,0 mm<sup>2</sup>

see page 24

Peak operating voltage of data conductors: max. 500 V

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
07740305	3 x 0,50	0,16	5,1	14,4	34
07740505	5 x 0,50	0,16	6,0	24,0	50
07740705	7 x 0,50	0,16	6,9	33,6	67
07741205	12 x 0,50	0,16	8,3	57,6	98
07741805	18 x 0,50	0,16	9,9	86,4	145
07742505	25 x 0,50	0,16	11,9	120,0	196
07740307	3 x 0,75	0,16	5,7	21,6	45
07740507	5 x 0,75	0,16	6,7	36,0	66
07740707	7 x 0,75	0,16	7,7	50,4	90
07741207	12 x 0,75	0,16	9,6	86,4	137
07741807	18 x 0,75	0,16	11,3	129,6	201
07742507	25 x 0,75	0,16	13,9	180,0	277
07740310	3 x 1,00	0,16	6,1	28,8	55
07740510	5 x 1,00	0,16	7,2	48,0	83
07740710	7 x 1,00	0,16	8,4	67,2	114
07741210	12 x 1,00	0,16	10,4	115,2	173
07741810	18 x 1,00	0,16	12,3	172,8	256
07742510	25 x 1,00	0,16	15,1	240,0	353
07740315	3 x 1,50	0,16	6,7	43,2	73
07740515	5 x 1,50	0,16	8,0	72,0	112
07740715	7 x 1,50	0,16	9,6	100,8	157
07741215	12 x 1,50	0,16	11,9	172,8	243
07741815	18 x 1,50	0,16	14,2	259,2	364
07742515	25 x 1,50	0,16	17,1	360,0	493
07740325	3 x 2,50	0,16	8,5	72,0	116
07740525	5 x 2,50	0,16	10,4	120,0	182
07740725	7 x 2,50	0,16	12,4	168,0	255

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
07741225	12 x 2,50	0,16	15,8	288,0	405
07741825	18 x 2,50	0,16	18,6	432,0	596
07742525	25 x 2,50	0,16	22,7	600,0	814
07740340	3 x 4,00	0,16	9,8	115,2	169
07740540	5 x 4,00	0,16	12,1	192,0	272
07740740	7 x 4,00	0,16	14,6	268,8	389
07740360	3 x 6,00	0,21	11,7	172,8	246
07740560	5 x 6,00	0,21	14,5	288,0	400
07740760	7 x 6,00	0,21	17,3	403,2	561
07740161	1 x 10,0	0,21	7,1	96,0	117
07740361	3 x 10,0	0,21	14,5	288,0	407
07740561	5 x 10,0	0,21	17,2	480,0	627
07740162	1 x 16,0	0,21	8,3	153,6	177
07740362	3 x 16,0	0,21	17,2	460,8	604
07740562	5 x 16,0	0,21	21,2	768,0	978
07740163	1 x 25,0	0,21	9,9	240,0	270
07740363	3 x 25,0	0,21	20,6	720,0	920
07740563	5 x 25,0	0,21	25,4	1200,0	1485
07740164	1 x 35,0	0,21	11,5	336,0	362
07740564	5 x 35,0	0,21	29,4	1680,0	2010
07740165	1 x 50,0	0,31	14,0	480,0	531
07740166	1 x 70,0	0,31	16,7	672,0	744
07740167	1 x 95,0	0,31	20,5	912,0	1020
07740168	1 x 120,0	0,31	21,5	1152,0	1244
07740169	1 x 150,0	0,31	24,6	1440,0	1584
07740170	1 x 185,0	0,41	26,7	1776,0	1920
07740171	1 x 240,0	0,41	30,1	2304,0	2458

Other dimensions and colours are possible on request.

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



Marking for SD 200 C 07842501:

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

### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Insulation:</b>	TPE 510
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	specially adjusted layering with non-woven tape over each layer
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	grey (RAL 7032)

### Technical Data:

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

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

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
07840703	7 x 0,34	0,11	5,7	38,9	53
07841203	12 x 0,34	0,11	6,9	68,6	82
07841803	18 x 0,34	0,11	8,0	96,6	115
07842503	25 x 0,34	0,11	9,6	131,5	155
07843203	32 x 0,34	0,11	10,2	155,0	185
07840250	2 x 0,50	0,11	4,8	22,8	34
07840350	3 x 0,50	0,11	5,0	27,8	39
07840450	4 x 0,50	0,11	5,4	34,9	47
07840550	5 x 0,50	0,11	5,8	40,2	55
07840750	7 x 0,50	0,11	6,9	63,1	81
07841250	12 x 0,50	0,11	8,0	81,4	105
07841850	18 x 0,50	0,11	9,7	136,4	167
07842550	25 x 0,50	0,11	11,8	176,2	222
07840275	2 x 0,75	0,11	5,4	30,2	44
07840375	3 x 0,75	0,11	5,7	37,7	52
07840475	4 x 0,75	0,11	6,3	57,0	69
07840575	5 x 0,75	0,11	6,8	65,2	81
07840775	7 x 0,75	0,11	7,9	88,1	106
07841275	12 x 0,75	0,11	9,7	136,4	163
07841875	18 x 0,75	0,11	11,6	181,5	227
07842575	25 x 0,75	0,11	14,1	248,5	316

Other dimensions and colours are possible on request.



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



Single cores on request with green-yellow insulation and black outer sheath or 0.6/1 kV.



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



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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE 510
<b>Colour code: from 2 conductors:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	specially adjusted layering with non-woven tape over each layer
<b>Inner sheath:</b>	SABIX® 322
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

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

### Technical Data:

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

#### Also available as hybrid cable for example

3G1,0 + 16 x 0,34 mm<sup>2</sup>  
3G1,0 + 8 x 0,34 mm<sup>2</sup>  
1G0,5 + 4 x 0,34 mm<sup>2</sup>

Peak operating voltage of data conductors: max. 500 V

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire Ø mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
07840305	3 x 0,50	0,16	7,0	43,6	58
07840505	5 x 0,50	0,16	7,9	61,5	77
07840705	7 x 0,50	0,16	9,0	74,1	101
07841205	12 x 0,50	0,16	10,6	108,2	151
07841805	18 x 0,50	0,16	12,2	143,0	203
07842505	25 x 0,50	0,16	14,8	217,0	299
07840307	3 x 0,75	0,16	7,6	54,1	70
07840507	5 x 0,75	0,16	8,8	74,3	98
07840707	7 x 0,75	0,16	9,8	92,3	123
07841207	12 x 0,75	0,16	11,9	142,4	192
07841807	18 x 0,75	0,16	14,2	215,3	294
07842507	25 x 0,75	0,16	16,6	289,7	386
07840310	3 x 1,00	0,16	8,0	66,4	82
07840510	5 x 1,00	0,16	9,3	89,0	114
07840710	7 x 1,00	0,16	10,7	117,9	159
07841210	12 x 1,00	0,16	12,8	174,9	239
07841810	18 x 1,00	0,16	15,2	270,2	353
07842510	25 x 1,00	0,16	18,4	367,5	481
07840315	3 x 1,50	0,16	8,8	81,5	104
07840515	5 x 1,50	0,16	10,1	122,2	145
07840715	7 x 1,50	0,16	11,9	156,8	206
07841215	12 x 1,50	0,16	14,7	269,7	341
07841815	18 x 1,50	0,16	16,9	369,2	465
07842515	25 x 1,50	0,16	20,4	493,4	633
07840325	3 x 2,50	0,16	10,6	122,8	159
07840525	5 x 2,50	0,16	12,6	179,6	236
07840725	7 x 2,50	0,16	15,0	265,2	335
07841225	12 x 2,50	0,16	18,5	417,1	525

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire Ø mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
07841825	18 x 2,50	0,16	21,8	571,4	739
07842525	25 x 2,50	0,16	26,0	780,8	1004
07840340	3 x 4,00	0,16	12,1	172,9	224
07840540	5 x 4,00	0,16	15,0	289,2	357
07840740	7 x 4,00	0,16	18,0	396,3	486
07840360	3 x 6,00	0,21	14,6	258,8	334
07840560	5 x 6,00	0,21	17,2	398,4	485
07840760	7 x 6,00	0,21	20,6	537,3	615
07840161	1 x 10,0	0,21	7,7	117,5	135
07840361	3 x 10,0	0,21	17,4	392,9	502
07840561	5 x 10,0	0,21	20,5	615,5	731
07840162	1 x 16,0	0,21	9,1	179,9	206
07840362	3 x 16,0	0,21	20,7	598,4	724
07840562	5 x 16,0	0,21	24,7	947,1	1101
07840163	1 x 25,0	0,21	10,7	287,7	306
07840363	3 x 25,0	0,21	23,9	898,2	1047
07840563	5 x 25,0	0,21	29,1	1400,1	1610
07840164	1 x 35,0	0,21	12,5	390,6	408
07840564	5 x 35,0	0,21	33,1	1915,1	2119
07840165	1 x 50,0	0,31	14,9	577,2	601
07840166	1 x 70,0	0,31	17,7	783,1	826
07840167	1 x 95,0	0,31	21,5	1051,2	1122
07840168	1 x 120,0	0,31	22,7	1293,1	1356
07840169	1 x 150,0	0,31	26,2	1611,0	1712
07840170	1 x 185,0	0,41	27,9	1952,4	2059
07840171	1 x 240,0	0,41	31,3	2507,0	2617

Other dimensions and colours are possible on request.

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



Marking for SD 200 C TP 07890350:

SAB BRÖCKSKES · D-VIERSEN · SD 200 C TP 3 x 2 x 0,5 mm<sup>2</sup> CE







### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Insulation:</b>	TPE 510
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	cores twisted to pairs, pairs twisted in specially adjusted layering with non-woven tape over each layer
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	grey (RAL 7032)

### Technical Data:

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

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	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 <sup>2</sup>	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.



**S 910 P** continuously flexible TPE/PUR single conductor

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



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

Marking for S 910 P 37681362: SAB BRÖCKSKES · D-VIERSEN ·  
37681362 16,0 mm<sup>2</sup> S 910 P 6 AWG 37680601 AWM Style 10456 80°C 600V CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

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

Marking for S 910 CP 37692362: SAB BRÖCKSKES · D-VIERSEN ·  
37692362 16,0 mm<sup>2</sup> S 910 CP 6 AWG 37690601 AWM Style 10456 80°C 600V CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

## Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE 510
<b>Wrapping:</b>	non-woven tape
<b>S 910 CP Screen:</b>	tinned copper braiding
<b>S 910 CP Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	<b>S 910 P</b> black (RAL 9005) <b>S 910 CP</b> orange (RAL 2003)

## Technical Data:

<b>Nominal voltage:</b>	<b>DIN VDE:</b> U <sub>0</sub> /U 0,6/1 kV	
<b>Voltage:</b>	<b>UL:</b> 600 V	<b>CSA:</b> 1000 V
<b>Min. bending radius</b> <i>continuously flexible:</i>	7,5 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b> <i>fixed laying:</i> <i>flexible application:</i>	<b>DIN VDE</b> -50/+90°C -40/+90°C	<b>UL/CSA:</b> bis +80°C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to UL + CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - PUR TMPU acc. to DIN VDE 0282 part 10 + HD 22.10	
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.	
<b>Continuous flexibility:</b>	very good	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union	

## Outstanding features:

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



On request with  
**green-yellow insulation**

## S 910 P

Colour of insulation: ► black						
item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	AWG/ MCM	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
37681340	1 x 4,00	0,16	12	6,6	38,4	69
37681360	1 x 6,00	0,21	10	7,5	57,6	94
37681361	1 x 10,00	0,21	8	8,4	96,0	138
37681362	1 x 16,00	0,21	6	9,9	153,6	206
37681363	1 x 25,00	0,21	4	11,1	240,0	296
37681364	1 x 35,00	0,21	2	12,6	336,0	390
37681365	1 x 50,00	0,31	1	14,7	480,0	554
37681366	1 x 70,00	0,31	2/0	17,0	672,0	771
37681367	1 x 95,00	0,31	3/0	20,4	912,0	1024
37681368	1 x 120,00	0,31	4/0	23,0	1152,0	1318
37681369	1 x 150,00	0,31	250 MCM	25,7	1440,0	1649

Other dimensions and colours are possible on request.

## S 910 CP

Colour of insulation: ► black						
item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	AWG/ MCM	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
37692340	1 x 4,00	0,16	12	7,1	54,5	83
37692360	1 x 6,00	0,21	10	8,0	77,3	112
37692361	1 x 10,00	0,21	8	8,9	119,7	157
37692362	1 x 16,00	0,21	6	10,3	182,6	227
37692363	1 x 25,00	0,21	4	11,7	293,9	335
37692364	1 x 35,00	0,21	2	13,3	395,7	434
37692365	1 x 50,00	0,31	1	15,8	577,7	631
37692366	1 x 70,00	0,31	2/0	17,9	783,2	840
37692368	1 x 120,00	0,31	4/0	23,9	1293,3	1421
37692369	1 x 150,00	0,31	250 MCM	26,6	1611,3	1773

Other dimensions and colours are possible on request.



## SD 980 P continuously flexible TPE/PUR data cable with coloured cores

e 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE



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

AWM Style 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Insulation:</b>	TPE
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	specialy adjusted layering with netting tape over each layer and one additional non-woven tape over the outer layer
<b>Sheath material:</b>	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	grey (RAL 7032)

### Technical Data:

<b>Peak operating voltage:</b>	<b>DIN VDE:</b> max. 350 V <b>UL/CSA:</b> 300 V
<b>Testing voltage U:</b>	1500 V acc. to DIN VDE 0472 part 509
<b>Min. bending radius</b> <i>continuously flexible:</i>	7,5 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b> <i>fixed laying:</i> <i>flexible application:</i>	<b>DIN VDE</b> <b>UL/CSA:</b> up to +80°C -50/+90°C -40/+90°C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 UL VW-1 + CSA FT1 (acc. to dimension) FT2
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Continuous flexibility:</b>	very good
<b>Absence of harmful substances:</b>	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**

item no.	no. of cores x cross section n x mm <sup>2</sup>	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 <sup>2</sup>	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 mm<sup>2</sup> and 0,75 mm<sup>2</sup>
- with coloured cores  
with reference to  
colour code US 2



## S 980 P continuously flexible TPE/PUR control cable with numbered cores



21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

Marking for S 980 P 77741807: SAB BRÖCKSKES · D-VIERSEN · 77741807 S 980 P 18 x 0,75 mm<sup>2</sup> 19 AWG/18c 77741918

AWM Style 21060 80°C 600V CSA AWM I/III A/B 80°C 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	specially adjusted layering with netting tape over each layer and one additional non-woven tape over the outer layer
<b>Sheath material:</b>	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	grey (RAL 7000)

### Technical Data:

<b>Nominal voltage:</b>	<b>DIN VDE:</b> U <sub>0</sub> /U 300/500 V <b>UL/CSA:</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b> <i>continuously flexible:</i>	7,5 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b> <i>fixed laying:</i> <i>flexible application:</i>	<b>DIN VDE</b> <b>UL/CSA:</b> up to +80°C -50/+90°C -40/+90°C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 UL VW-1 + CSA FT1 FT2
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Continuous flexibility:</b>	very good
<b>Absence of harmful substances:</b>	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

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
77740305	3 x 0,50	0,16	6,6	14,4	52
77740405	4 x 0,50	0,16	7,1	19,2	61
77740505	5 x 0,50	0,16	7,8	24,0	72
77740705	7 x 0,50	0,16	8,9	33,6	93
77741205	12 x 0,50	0,16	10,5	57,6	139
77741805	18 x 0,50	0,16	12,1	86,4	192
77742505	25 x 0,50	0,16	14,3	120,0	255
77743405	34 x 0,50	0,16	16,2	163,2	338
77745005	50 x 0,50	0,16	18,8	240,0	474
77746105	61 x 0,50	0,16	21,0	292,8	583
77740307	3 x 0,75	0,16	7,1	21,6	60
77740407	4 x 0,75	0,16	7,6	28,8	71
77740507	5 x 0,75	0,16	8,4	36,0	85
77740707	7 x 0,75	0,16	9,6	50,4	109
77741207	12 x 0,75	0,16	11,2	86,4	164
77741807	18 x 0,75	0,16	13,3	129,6	230
77742507	25 x 0,75	0,16	15,7	180,0	312
77743407	34 x 0,75	0,16	17,7	244,8	405
77745007	50 x 0,75	0,16	20,7	360,0	579
77746107	61 x 0,75	0,16	24,0	439,2	752
77740310	3 x 1,00	0,16	7,3	28,8	68
77740410	4 x 1,00	0,16	7,9	38,4	83
77740510	5 x 1,00	0,16	8,6	48,0	98
77740710	7 x 1,00	0,16	10,0	67,2	128
77741210	12 x 1,00	0,16	11,7	115,2	195
77741810	18 x 1,00	0,16	13,7	172,8	275
77742510	25 x 1,00	0,16	16,3	240,0	375
77743410	34 x 1,00	0,16	18,4	326,4	493
77745010	50 x 1,00	0,16	22,9	480,0	760
77746110	61 x 1,00	0,16	25,0	585,6	905
77740315	3 x 1,50	0,16	8,0	43,2	87
77740415	4 x 1,50	0,16	8,9	57,6	108

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
77740515	5 x 1,50	0,16	9,4	72,0	131
77740715	7 x 1,50	0,16	10,9	100,8	168
77741215	12 x 1,50	0,16	13,0	172,8	261
77741815	18 x 1,50	0,16	14,3	259,2	367
77742515	25 x 1,50	0,16	18,3	360,0	512
77743415	34 x 1,50	0,16	20,6	489,6	680
77745015	50 x 1,50	0,16	25,3	720,0	1026
77746115	61 x 1,50	0,16	27,7	878,4	1228
77740325	3 x 2,50	0,16	9,3	72,0	126
77740425	4 x 2,50	0,16	10,0	96,0	155
77740525	5 x 2,50	0,16	11,1	120,0	187
77740725	7 x 2,50	0,16	12,8	168,0	249
77741225	12 x 2,50	0,16	15,7	288,0	400
77741825	18 x 2,50	0,16	18,6	432,0	577
77742525	25 x 2,50	0,16	23,5	600,0	847
77740340	3 x 4,00	0,16	10,5	115,2	221
77740440	4 x 4,00	0,16	11,5	153,6	232
77740540	5 x 4,00	0,16	12,6	192,0	271
77740360	3 x 6,00	0,21	12,2	172,8	257
77740460	4 x 6,00	0,21	13,3	230,4	323
77740560	5 x 6,00	0,21	14,6	288,0	376
77740361	3 x 10,0	0,21	15,8	288,0	418
77740461	4 x 10,0	0,21	17,4	384,0	536
77740561	5 x 10,0	0,21	19,5	480,0	653
77740362	3 x 16,0	0,21	18,6	460,8	594
77740462	4 x 16,0	0,21	20,6	614,4	824
77740562	5 x 16,0	0,21	24,5	768,0	1062
77740463	4 x 25,0	0,21	26,0	960,0	1243
77740563	5 x 25,0	0,21	28,9	1200,0	1512
77740464	4 x 35,0	0,21	29,5	1344,0	1626
77740564	5 x 35,0	0,21	32,8	1680,0	1983
77740465	4 x 50,0	0,31	36,2	1920,0	2331

Other dimensions and colours are possible on request.



## SD 980 CP continuously flexible TPE/PUR data cable with coloured cores and overall copper screen



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

AWM Style 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

### Construction:

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

### Technical Data:

<b>Peak operating voltage:</b>	<b>DIN VDE:</b> max. 350 V <b>UL/CSA:</b> 300 V
<b>Testing voltage U:</b>	1500 V acc. to DIN VDE 0472 part 509 core/screen 1200 V
<b>Min. bending radius</b> <i>continuously flexible:</i>	7,5 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b> <i>fixed laying:</i> <i>flexible application:</i>	<b>DIN VDE</b> UL/CSA: up to +80°C -50/+90°C -40/+90°C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 UL VW-1 + CSA FT1 FT2
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Continuous flexibility:</b>	very good
<b>Absence of harmful substances:</b>	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**

item no.	no. of cores x cross section n x mm <sup>2</sup>	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 <sup>2</sup>	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 mm<sup>2</sup> and 0,75 mm<sup>2</sup>
- with coloured cores  
with reference to  
colour code US 2



## S 980 CP continuously flexible TPE/PUR control cable with numbered cores and overall copper screen



21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1

Marking for S 980 CP 77840715: SAB BRÖCKSKES · D-VIERSEN · 77840715 7 x 1,5 mm<sup>2</sup> S 980 CP 16 AWG/7c 77841607  
 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

### Construction:

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

### Technical Data:

<b>Nominal voltage:</b>	<b>DIN VDE:</b> U <sub>0</sub> /U 300/500 V <b>UL/CSA:</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 2000 V
<b>Min. bending radius</b> <i>continuously flexible:</i>	7,5 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b> <i>fixed laying:</i> <i>flexible application:</i>	<b>DIN VDE</b> UL/CSA: up to +80°C -40/+90°C -30/+90°C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 UL VW-1 + CSA FT1 FT2
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Continuous flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union

### Outstanding features:

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

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire Ø mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
77840305	3 x 0,50	0,16	8,6	35,9	86
77840405	4 x 0,50	0,16	9,0	42,9	98
77840505	5 x 0,50	0,16	9,7	50,2	112
77840705	7 x 0,50	0,16	10,8	62,8	137
77841205	12 x 0,50	0,16	12,6	112,1	204
77841805	18 x 0,50	0,16	14,7	172,4	286
77842505	25 x 0,50	0,16	17,1	230,2	380
77843005	30 x 0,50	0,16	18,0	255,2	434
77843605	36 x 0,50	0,16	19,2	296,9	498
77840307	3 x 0,75	0,16	9,0	45,3	96
77840407	4 x 0,75	0,16	9,5	55,0	110
77840507	5 x 0,75	0,16	10,3	65,0	127
77840707	7 x 0,75	0,16	11,7	104,3	172
77841207	12 x 0,75	0,16	13,8	146,2	254
77841807	18 x 0,75	0,16	16,0	227,5	354
77842507	25 x 0,75	0,16	18,7	303,4	455
77843007	30 x 0,75	0,16	19,0	339,8	522
77843607	36 x 0,75	0,16	20,4	384,9	599
77840310	3 x 1,00	0,16	9,2	52,6	105
77840410	4 x 1,00	0,16	9,8	64,7	122
77840510	5 x 1,00	0,16	10,5	77,1	141
77840710	7 x 1,00	0,16	12,1	121,4	192
77841210	12 x 1,00	0,16	14,2	200,8	299
77841810	18 x 1,00	0,16	16,1	270,8	401
77842510	25 x 1,00	0,16	19,3	364,3	521
77843010	30 x 1,00	0,16	19,7	412,9	603
77843610	36 x 1,00	0,16	22,8	484,8	776
77840315	3 x 1,50	0,16	9,5	69,4	119
77840415	4 x 1,50	0,16	10,8	86,8	152
77840515	5 x 1,50	0,16	11,5	119,8	189

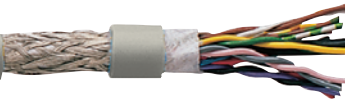
item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire Ø mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
77840715	7 x 1,50	0,16	13,2	160,4	250
77841215	12 x 1,50	0,16	15,7	270,4	384
77841815	18 x 1,50	0,16	18,0	370,8	515
77842515	25 x 1,50	0,16	23,1	499,7	776
77843015	30 x 1,50	0,16	23,5	572,5	865
77843615	36 x 1,50	0,16	24,9	685,5	1004
77840325	3 x 2,50	0,16	11,4	119,7	183
77840425	4 x 2,50	0,16	12,1	150,2	218
77840525	5 x 2,50	0,16	13,4	179,7	260
77840725	7 x 2,50	0,16	15,5	265,4	369
77841225	12 x 2,50	0,16	18,7	411,4	559
77841825	18 x 2,50	0,16	23,4	572,3	843
77842525	25 x 2,50	0,16	27,2	772,8	1079
77840340	3 x 4,00	0,16	12,6	169,7	249
77840440	4 x 4,00	0,16	13,8	213,6	305
77840540	5 x 4,00	0,16	15,2	289,3	374
77840360	3 x 6,00	0,21	14,7	258,8	349
77840460	4 x 6,00	0,21	15,8	328,3	437
77840560	5 x 6,00	0,21	17,3	398,4	497
77840361	3 x 10,0	0,21	18,8	411,5	553
77840461	4 x 10,0	0,21	20,5	509,9	681
77840561	5 x 10,0	0,21	24,3	645,7	903
77840362	3 x 16,0	0,21	22,3	601,1	786
77840462	4 x 16,0	0,21	25,2	782,2	1046
77840562	5 x 16,0	0,21	28,2	943,3	1257
77840463	4 x 25,0	0,21	29,7	1155,1	1504
77840563	5 x 25,0	0,21	32,6	1406,1	1802
77840464	4 x 35,0	0,21	33,2	1552,5	1918
77840564	5 x 35,0	0,21	36,5	1914,1	2299

Other dimensions and colours are possible on request.



## SD 980 CP TP continuously flexible paired TPE/PUR data cable with coloured cores and overall copper screen

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



Marking for SD 980 CP TP 77890725: SAB BRÖCKSKES · D-VIERSEN · 77890725 7 x 2 x 0,25 mm2 SD 980 CP TP 24 AWG/7pr 77892407

AWM Style 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

### Construction:

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

### Technical Data:

<b>Peak operating voltage:</b>	<b>DIN VDE:</b> max. 350 V <b>UL/CSA:</b> 300 V
<b>Testing voltage U:</b>	1500 V acc. to DIN VDE 0472 part 509 core/screen 1200V
<b>Min. bending radius continuously flexible:</b>	7,5 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range fixed laying:</b>	<b>DIN VDE</b> -50/+90°C
<b>flexible application:</b>	<b>UL/CSA:</b> up to +80°C -40/+90°C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 UL VW-1 + CSA FT1 FT2
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Continuous flexibility:</b>	very good
<b>Absence of harmful substances:</b>	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**



### Possible on request!

with coloured cores with reference to colour code US 3

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ~ kg/km
77890214	2 x 2 x 0,14	0,11	5,1	19,3	34
77890314	3 x 2 x 0,14	0,11	5,6	22,1	39
77890414	4 x 2 x 0,14	0,11	6,3	26,8	47
77890514	5 x 2 x 0,14	0,11	6,7	31,1	53
77890714	7 x 2 x 0,14	0,11	7,2	38,5	64
77891014	10 x 2 x 0,14	0,11	8,4	50,7	83
77891414	14 x 2 x 0,14	0,11	9,3	66,6	105
77891814	18 x 2 x 0,14	0,11	10,3	96,0	136
77892514	25 x 2 x 0,14	0,11	11,7	121,6	174
77890225	2 x 2 x 0,25	0,11	5,6	23,6	42
77890325	3 x 2 x 0,25	0,11	6,2	30,4	52
77890425	4 x 2 x 0,25	0,11	6,9	38,7	60
77890525	5 x 2 x 0,25	0,11	7,4	43,8	68
77890725	7 x 2 x 0,25	0,11	7,9	57,2	85
77891025	10 x 2 x 0,25	0,11	9,2	74,3	110
77891425	14 x 2 x 0,25	0,11	10,9	115,1	157
77891825	18 x 2 x 0,25	0,11	11,6	140,7	188
77892525	25 x 2 x 0,25	0,11	14,0	205,5	275
77890234	2 x 2 x 0,34	0,11	5,9	29,0	48
77890334	3 x 2 x 0,34	0,11	6,5	37,2	60
77890434	4 x 2 x 0,34	0,11	7,4	45,9	72
77890534	5 x 2 x 0,34	0,11	7,9	56,3	81
77890734	7 x 2 x 0,34	0,11	8,5	69,5	98

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ~ kg/km
77891034	10 x 2 x 0,34	0,11	9,9	94,5	130
77891434	14 x 2 x 0,34	0,11	11,6	145,7	186
77891834	18 x 2 x 0,34	0,11	12,5	177,1	223
77892534	25 x 2 x 0,34	0,11	14,7	260,3	320
77890250	2 x 2 x 0,50	0,11	6,8	36,9	60
77890350	3 x 2 x 0,50	0,11	7,6	50,2	79
77890450	4 x 2 x 0,50	0,11	8,7	64,6	98
77890550	5 x 2 x 0,50	0,11	9,4	77,0	113
77890750	7 x 2 x 0,50	0,11	10,3	114,8	148
77891050	10 x 2 x 0,50	0,11	12,1	150,6	197
77891450	14 x 2 x 0,50	0,11	14,3	220,4	282
77891850	18 x 2 x 0,50	0,11	16,1	270,8	363
77892550	25 x 2 x 0,50	0,11	18,0	351,3	460
77890275	2 x 2 x 0,75	0,11	7,7	50,2	79
77890375	3 x 2 x 0,75	0,11	8,8	69,4	98
77890475	4 x 2 x 0,75	0,11	9,9	86,8	121
77890575	5 x 2 x 0,75	0,11	11,1	126,0	161
77890775	7 x 2 x 0,75	0,11	11,9	155,3	189
77891075	10 x 2 x 0,75	0,11	14,7	241,1	303
77891475	14 x 2 x 0,75	0,11	17,3	312,0	403
77891875	18 x 2 x 0,75	0,11	18,6	382,6	486
77892575	25 x 2 x 0,75	0,11	22,7	499,0	704

Other dimensions and colours are possible on request.



## 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 mm<sup>2</sup> + 2 x (2 x 0,34 mm<sup>2</sup>) **DESINA** CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6 < 0,50 mm <sup>2</sup> with reference to DIN VDE 0812
<b>Insulation:</b>	TPE 510
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334 (except 0,34 mm <sup>2</sup> = coloured) and a green-yellow earth wire supply cores: U1, V2, W3 and a green-yellow earth wire control cores: BR1 and BR2
<b>from item no. 08011415:</b>	
<b>Stranding:</b>	control cores 0,34 mm <sup>2</sup> - 2,5 mm <sup>2</sup> twisted to pairs
<b>Screen:</b>	pairs wrapped with Alu-foil and tinned copper braiding
<b>Wrapping:</b>	pairwise with PETP foil
<b>Stranding:</b>	screened control pairs and supply cores twisted together in layers
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	orange (RAL 2003)

### Technical Data:

<b>Nominal voltage:</b>	supply cores U <sub>0</sub> /U 0.6/1 kV
<b>Peak operatin voltage:</b>	control cores max. 500 V
<b>Testing voltage U:</b>	supply cores 4000 V control cores 1500 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
continuously flexible:	12 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Weather resistance:</b>	very good
<b>Absence of harmful substances:</b>	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 moisturing interfering substances)
- flexible at low temperatures
- DESINA®** colours



**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	160
08010410	4 x 1,00 + 2 x (2 x 0,75)	18 / 4c	19 / 2pr	0,16	12,0 ± 0,5	154,2	209
08010415	4 x 1,50 + 2 x (2 x 0,75)	16 / 4c	19 / 2pr	0,16	12,2 ± 0,5	174,3	233
08010425	4 x 2,50 + 2 x (2 x 1,00)	14 / 4c	18 / 2pr	0,16	15,0 ± 0,8	236,8	312
08010441	4 x 4,00 + (2 x 1,00) + (2 x 1,50)	12 / 4c	18 / 1pr + 16 / 1pr	0,16	17,8 ± 0,6	349,8	463
08010461	4 x 6,00 + (2 x 1,00) + (2 x 1,50)	10 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	18,6 ± 0,8	437,6	580
08010471	4 x 10,00 + (2 x 1,00) + (2 x 1,50)	8 / 4c	18 / 1pr + 16 / 1pr	0,21/0,16	22,5 ± 1,0	613,5	792
08010485	4 x 16,00 + 2 x (2 x 1,50)	6 / 4c	16 / 2pr	0,21/0,16	27,6 ± 0,8	880,6	1130
08010490	4 x 25,00 + 2 x (2 x 1,50)	4 / 4c	16 / 2pr	0,21/0,16	28,0 ± 1,0	1237,0	1507
08010495	4 x 35,00 + 2 x (2 x 1,50)	2 / 4c	16 / 2pr	0,21/0,16	32,0 ± 1,0	1647,3	2011
08010496	4 x 50,00 + 2 x (2 x 2,50)	1 / 4c	14 / 2pr	0,21/0,16	38,2 ± 1,0	2324,0	2866
08011415	4 x 1,50 + (2 x 1,50)	16 / 4c	16 / 1pr	0,16	12,5 ± 0,4	161,8	213
08011425	4 x 2,50 + (2 x 1,50)	14 / 4c	16 / 1pr	0,16	13,8 ± 0,4	202,1	266
08011440	4 x 4,00 + (2 x 1,50)	12 / 4c	16 / 1pr	0,16	14,9 ± 0,4	270,4	353
08011460	4 x 6,00 + (2 x 1,50)	10 / 4c	16 / 1pr	0,21/0,16	16,7 ± 1,1	382,5	490
08011470	4 x 10,00 + (2 x 1,50)	8 / 4c	16 / 1pr	0,21/0,16	19,2 ± 1,6	549,4	698
08011480	4 x 16,00 + (2 x 1,50)	6 / 4c	16 / 1pr	0,21/0,16	23,0 ± 1,7	802,2	1008
08011490	4 x 25,00 + (2 x 1,50)	4 / 4c	16 / 1pr	0,21/0,16	26,9 ± 1,0	1171,1	1448
08011495	4 x 35,00 + (2 x 1,50)	2 / 4c	16 / 1pr	0,21/0,16	31,0 ± 1,0	1592,3	2012
08011496	4 x 50,00 + (2 x 1,50)	1 / 4c	16 / 1pr	0,21/0,16	34,8 ± 1,0	2203,3	2695

Other dimensions and colours are possible on request.

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## SL 841 C combined TPE/PUR motor connection cable with overall copper screen 0.6/1 kV



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



Marking for SL 841 C 08410407: SAB BRÖCKSKES · D-VIERSEN · 08410407 SL 841 C 4 x 0,75 mm<sup>2</sup> (1000V) + 2 x (2 x 0,34 mm<sup>2</sup>) (300V) **DESINA** AWM Style 20235 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6 < 0,50 mm <sup>2</sup> with reference to DIN VDE 0812
<b>Insulation:</b>	TPE 510
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334 (except 0,34 mm <sup>2</sup> = coloured) and a green-yellow earth wire supply cores: * U1, V2, W3 and a green-yellow earth wire control cores: ** BR1 and BR2
<b>from item no. 08411415:</b>	
<b>Stranding:</b>	control cores 0,34 mm <sup>2</sup> - 2,5 mm <sup>2</sup> twisted to pairs
<b>Screen:</b>	pairs wrapped with Alu-foil and tinned copper braiding
<b>Wrapping:</b>	pairwise with PETP foil
<b>Stranding:</b>	screened control pairs and supply cores twisted together in layers
<b>Wrapping:</b>	two layers non-woven tape
<b>Screen:</b>	overall copper screen
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	orange (RAL 2003)

### Technical Data:

<b>Nominal voltage:</b>	<b>DIN VDE:</b> supply cores U <sub>0</sub> /U 0.6/1 kV
<b>Voltage:</b>	<b>UL/CSA:</b> supply cores 1000 V
<b>Peak operatin voltage:</b>	<b>DIN VDE:</b> control cores max. 350 V
<b>Voltage:</b>	<b>UL/CSA:</b> control cores 300 V
<b>Testing voltage U:</b>	supply cores 4000 V control cores 1500 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	<b>DIN VDE</b> <b>UL/CSA:</b> up to +80°C
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2, CSA FT1 FT2 and UL FT1
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Weather resistance:</b>	very good
<b>Absence of harmful substances:</b>	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 moisturing interfering substances)
- flexible at low temperatures**
- DESINA® colours**



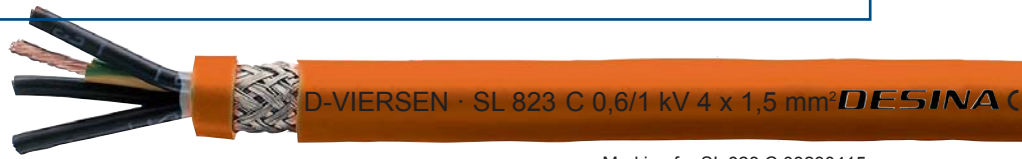
**Cable harnessing possible on request**

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)				
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.

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## 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 mm<sup>2</sup> **DESINA** CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE 510
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	two layers non-woven tape
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	orange (RAL 2003)

### Technical Data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0.6/1 kV
<b>Testing voltage U:</b>	4000 V core/screen 2000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Weather resistance:</b>	very good
<b>Absence of harmful substances:</b>	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**



**for DNC motors  
on frequency  
converters**

item no.	no. of cores x cross section n x mm <sup>2</sup>	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.



## 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-VIERSEN · 08330415 4 x 1,5 mm<sup>2</sup>  
 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:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE 510
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334 and a green-yellow earth wire
<b>Stranding:</b>	together in layers
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	PU acc. to UL 758
<b>Sheath colour:</b>	orange (RAL 2003)

### Technical Data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 0.6/1 kV	
<b>Voltage:</b>	<b>UL/CSA</b> 1000 V	
<b>Testing voltage U:</b>	4000 V	core/screen 2000 V
<b>Min. bending radius</b>		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<i>continuously flexible:</i>	12 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA:</b> up to +80 °C
<i>fixed laying:</i>	-50/+90 °C	
<i>flexible application:</i>	-40/+90 °C	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2, CSA FT1 FT2 and UL FT1	
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10	
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.	
<b>Absence of harmful substances:</b>	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 moisturing interfering substances)
- flexible at low temperatures**
- DESINA® colours**



**for DNC motors  
on frequency  
converters**

**DESINA**

item no.	no. of cores x cross section n x mm <sup>2</sup>	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.

**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:

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

## Technical Data:

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



suitable for resolvers and shaft encoders

item no.	dimensions	sheath colour	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ~ kg/km
motor 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.



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

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

08422009 33 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

Marking for SL 842 C 08420050:  
SAB BRÖCKSKES · D-VIERSEN · 08420050 9 x 0,5 mm<sup>2</sup> SL 842 C 20 AWG/9c  
08422009 AWM-Style 20233 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE



08430006 20235 80°C 300 V CSA AWM I/II A/B 80°C 300V FT1 CE

Marking for SL 843 C 08430006:  
SAB BRÖCKSKES · D-VIERSEN · 08430006 SL 843 C 3 x 2 x 0,25 mm<sup>2</sup> + 2 x 0,5 mm<sup>2</sup>  
AWM-Style 20235 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 CE

## Construction:

<b>Conductor:</b>	bare copper strands with reference to DIN VDE 0812
<b>Insulation:</b>	TPE 510
<b>Colour code:</b>	coloured
<b>Stranding:</b>	SL 842 C - in layers SL 843 C - in layers or pairwise
<b>Screen:</b>	acc. to dimension: pairs screened or wrapped with tinned copper braid
<b>Inner sheath:</b>	TPE 510 over screened pairs
<b>Stranding:</b>	cores/pairs twisted together in layers
<b>Wrapping:</b>	one or. two layers non-woven tape
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Sheath colour:</b>	orange (RAL 2003) or green (RAL 6018)

## Technical Data:

<b>Peak operatin voltage:</b>	<b>DIN VDE:</b> SL 842 C: max. 500 V SL 843 C: max. 350 V
<b>Voltage:</b>	<b>UL/CSA:</b> 300 V
<b>Testing voltage U:</b>	2000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	<b>DIN VDE</b> <b>UL/CSA:</b> up to +80 °C
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
<b>Fire performance</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2, UL FT1 and CSA FT1 FT2
<b>SL 842 C:</b>	
<b>Fire performance</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2, EN 60332-1-2, UL FT1 and CSA FT1
<b>SL 843 C:</b>	
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Weather resistance:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union

## Outstanding features:

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



**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
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	9,7 ± 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
08430006	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	8,2 ± 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.





## 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 mm<sup>2</sup> + 4 x 0,50 mm<sup>2</sup> **DESINA** AWM Style 20236 80°C 30V

### Construction:

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

### Technical Data:

<b>Peak operatin voltage:</b>	max. 30 V	
<b>Voltage UL:</b>	30 V	
<b>Testing voltage U:</b>	750 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<i>continuously flexible:</i>	12 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL:</b> up to +80°C
<i>fixed laying:</i>	-40/+70 °C	
<i>flexible application:</i>	-20/+70 °C	
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10	
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc. or oilrating 60°C acc. to UL 758	
<b>Weather resistance:</b>	very good	
<b>Absence of harmful substances:</b>	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 moisturing 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	9,0 ± 0,4	71,4	96
08390214	3 x (2 x 0,14) D + 4 x 0,14 + 2 x 0,50	green	0,11/0,16	8,8 ± 0,4	63,7	97
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	9,5 ± 0,4	79,0	111
08390138	4 x 2 x 0,38 + 4 x 0,50	green	0,11/0,16	8,9 ± 0,4	76,3	106
08390318	8 x 2 x 0,18	green	0,11	7,8 ± 0,4	48,0	74
08390122	12 x 0,22	green	0,11	6,9 ± 0,4	42,5	63

Other dimensions and colours are possible on request.

### 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	28
08390218	4 x 2 x 0,18	green	0,11	6,3 ± 0,4	30,8	47
<b>NEW!</b> 08390115	2 x 2 x 0,15 + 2 x 0,38 (Sinamics / DRIVE CLIQ Cable)	green	0,11/0,16	6,9 ± 0,3	28,1	52

Other dimensions and colours are possible on request.

## PUR sensor cable suitable for cable tracks

D-VIERSEN · PUR-Sensorleitung 16 x 0,5 mm<sup>2</sup> + 3 x 1,0 mm<sup>2</sup> €



Marking for PUR-Sensorleitung 07489001:

SAB BRÖCKSKES · D-VIERSEN · PUR-Sensorleitung 16 x 0,5 mm<sup>2</sup> + 3 x 1,0 mm<sup>2</sup> €

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	SABIX® 151
<b>Colour code:</b>	acc. to colour code Euchner
<b>Stranding:</b>	specially adjusted layering
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

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

### Technical Data:

<b>Nominal voltage U<sub>o</sub>/U:</b>	300/500 V
<b>Alternating test voltage:</b>	core/core 2000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	12 x d
<b>Radiation resistance:</b>	5 x 10 <sup>6</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-20/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union

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

Other dimensions and colours are possible on request.



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





**RT 123** PUR torsion cable, torsion angle up to  $\pm 450^\circ$  per 0,5 m

**RT 123 D** PUR torsion cable with overall copper screen, torsion angle up to  $\pm 450^\circ$  per 0,5 m



21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

Marking for RT 123 D 07961815: SAB BRÖCKSKES · D-VIERSEN ·

07961815 18 x 1.5 mm<sup>2</sup> RT 123 D 16 AWG/18c 07961618 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

## Construction:

<b>Conductor</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	bare copper strands, extra fine wires
<b>Conductor</b> from 0,50 mm <sup>2</sup> :	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE 531 (0,14-0,34mm <sup>2</sup> ) TPE 510 (from 0,5 mm <sup>2</sup> )
<b>Colour code</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	acc. to colour code US 2
<b>Colour code</b> from 0,50 mm <sup>2</sup> :	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	specially adjusted layering with netting tape over each layer and one additional non-woven tape over the outer layer
<b>RT 123 D</b> <b>Screen:</b>	wrapped with bare copper wires
<b>RT 123 D</b> <b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Sheath colour:</b>	black (RAL 9005)

## Technical Data:

<b>Voltage</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	<b>UL/CSA:</b> 300 V		
<b>Voltage</b> from 0,50 mm <sup>2</sup> :	<b>UL/CSA:</b> 600 V		
<b>Peak operatin voltage</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	max. 350 V		
<b>Nominal voltage Uo/U</b> from 0,50 mm <sup>2</sup> :	<b>DIN VDE:</b> 300/500 V		
<b>Testing voltage U</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	1500 V acc. to DIN VDE 0472 part 509 core/screen 1200 V ( <b>RT 123 D</b> )		
<b>Testing voltage U</b> from 0,50 mm <sup>2</sup> :	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2, core/screen 2000 V ( <b>RT 123 D</b> )		
<b>Torsion angle:</b>	up to $\pm 450^\circ/0,5$ m (tested)		
<b>Min. bending radius:</b>	continuously flexible 12 x d / from 34 cores 20 x d		
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg		
<b>Temperature range</b> <i>fixed laying:</i>	<b>UL</b> up to +80°C	<b>CSA</b> up to +80°C	<b>DIN VDE</b> -50/+90°C
<i>flexible application:</i>	up to +80°C	up to +80°C	-40/+90°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 und DIN VDE 0472 part 815		
<b>Fire performance:</b>	UL VW-1 + CSA FT1 and FT2, IEC 60332-1-2 and EN 60332-1-2		
<b>Oil resistance:</b>	very good - PUR TPU acc. to DIN VDE 0282 part 10 + HD 22.10		
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.		
<b>Continuous flexibility:</b>	very good		
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union		

## Outstanding features:

- rugged and reliable
- torsion angle up to  $\pm 450^\circ$  over 0.5 m

### RT 123

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire Ø mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
07950301	3 x 0,14	0,11	5,5	4,0	31
07950401	4 x 0,14	0,11	5,7	5,4	34
07950302	3 x 0,25	0,11	5,8	7,2	37
07950402	4 x 0,25	0,11	6,1	9,6	41
07950702	7 x 0,25	0,11	7,2	16,8	60
07952502	25 x 0,25	0,11	10,7	60,0	144
07950203	2 x 0,34	0,11	5,8	6,5	38
07951805	18 x 0,50	0,16	12,5	95,0	205
07952505	25 x 0,50	0,16	14,7	132,0	287
07950407	4 x 0,75	0,16	8,0	28,8	79
07951407	14 x 0,75	0,16	12,6	100,8	204
07950210	2 x 1,00	0,16	7,5	19,2	68
07950310	3 x 1,00	0,16	7,8	28,8	78
07950410	4 x 1,00	0,16	8,4	38,4	93
07950610	6 x 1,00	0,16	9,7	57,6	129
07950710	7 x 1,00	0,16	10,3	67,2	147
07951210	12 x 1,00	0,16	12,6	115,2	217
07951810	18 x 1,00	0,16	14,9	172,8	318
07952510	25 x 1,00	0,16	17,2	240,0	437
07953410	34 x 1,00	0,16	20,0	326,4	564
07954010	40 x 1,00	0,16	21,4	384,0	661
07954110	41 x 1,00	0,16	21,4	393,6	673
07950715	7 x 1,50	0,16	11,7	100,8	200
07951215	12 x 1,50	0,16	14,7	172,8	307
07951815	18 x 1,50	0,16	17,1	259,2	442
07952515	25 x 1,50	0,16	20,0	360,0	618
07950325	3 x 2,50	0,16	10,4	72,0	151
07950425	4 x 2,50	0,16	11,2	96,0	182

### RT 123

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire Ø mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
07950340	3 x 4,00	0,16	12,1	115,2	211
07950361	3 x 10,00	0,21	18,0	288,0	475
07950362	3 x 16,00	0,21	20,4	460,8	698
07950363	3 x 25,00	0,21	25,6	720,0	1066
07950364	3 x 35,00	0,21	28,4	1008,0	1386

Other dimensions and colours are possible on request.

### RT 123 D

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire Ø mm	outer-Ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
07961201	12 x 0,14	0,11	8,5	30,2	79
07962502	25 x 0,25	0,11	11,3	90,9	171
07960505	5 x 0,50	0,16	8,7	40,5	95
07961215	12 x 1,50	0,16	15,3	214,7	344
07961815	18 x 1,50	0,16	17,8	326,0	499

Other dimensions and colours are possible on request.



**Also suitable  
for applications  
on robots!**



**TR 600 Auto black** Type TC, MTW and WTTC

UV and oil resistant 90°C 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 (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) WTTC 90°C 1000V (UL) MTW 16 AWG/25c 600V flexing AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

**Construction:**

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

**Outstanding features:**

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

**Technical Data:**

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

tem 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

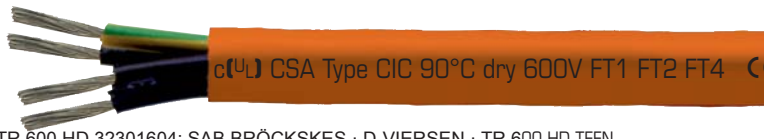
tem no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
32121609	9 x 16	0,16	13,1	129,6	270
32121612	12 x 16	0,16	14,5	172,8	324
32121616	16 x 16	0,16	16,0	230,4	410
32121618	18 x 16	0,16	16,8	259,2	453
32121619	19 x 16	0,16	17,6	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.



**TR 600 HD** Typ WTTC Heavy Duty Tray Cable

**TR 600 C HD** Typ WTTC Heavy Duty Tray Cable with overall copper screen



Marking for TR 600 HD 32301604: SAB BRÖCKSKES · D-VIERSEN · TR 600 HD TFFN

(UL) Type TC-ER 90°C 600V, Oil VII -40°C FT4 (UL) WTTC 90°C 1000V AWM Style 21237 105°C 600V c(UL) CSA Type CIC 90°C dry 600V FT1 FT2 FT4 CE



Marking for TR 600 C HD 32401604: SAB BRÖCKSKES · D-VIERSEN · TR 600 C HD TFFN (UL) Type TC-ER 90°C 600V, Oil VII -40°C FT4

(UL) WTTC 90°C 1000V AWM Style 21237 105°C 600V c(UL) CSA Type CIC SHIELDED 90°C dry 600V FT1 FT2 FT4 CE

**Construction:**

<b>Conductor:</b>	tinned copper strands with reference to DIN VDE 0295 class 5 + IEC 60228 class 5 + HD 383 class 5 from 18 AWG - 14 AWG, from 10 AWG - 2 AWG class k acc. to ASTM B 172
<b>Insulation:</b>	special formulated PVC/Nylon
<b>Colour code:</b>	black cores with consecutive white numbers and a green-yellow earth wire
<b>Stranding:</b>	in layers
<b>TR 600 C HD Inner sheath:</b>	PVC, black
<b>TR 600 C HD Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	TPE 356
<b>Sheath colour:</b>	orange (RAL 2003)

**Technical Data:**

<b>Voltage:</b>	<b>UL-AWM / (UL) / c(UL):</b> 600 V <b>(UL) WTTC:</b> 1000 V
<b>Testing voltage U:</b>	4000 V
<b>Min. bending radius</b>	<b>TR 600 HD:</b> 7,5 x d <b>TR 600 C HD:</b> 5 x d 10 x d <i>fixed laying:</i> <i>flexible application:</i>
<b>Temperature:</b>	<b>UL-AWM:</b> up to +105°C <b>(UL) / c(UL):</b> -40/+90°C
<b>Fire performance:</b>	(UL) FT4 and c(UL) FT1, FT2, FT4
<b>Oil resistance I &amp; II:</b>	yes
<b>Exposed Runs:</b>	yes

**Outstanding features:**

- heavy duty tray cable control and instrumentation cable
- UL-AWM recognized for + 105 °C
- Extreme oil resistant
- New: Improved with WTTC approval
- WTTC: UL Subject 2277
- TC: UL Standard 1277
- (UL)/(cUL) listed

**TR 600 HD**

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
32301804	4 x 18	0,21	8,4	38,4	95
32301604	4 x 16	0,26	9,1	57,6	119
32301404	4 x 14	0,26	10,0	96,0	162
32301204	4 x 12	0,26	11,2	138,2	214
32301004	4 x 10	0,26	14,3	211,2	341
32300804	4 x 8	0,26	18,4	337,9	525
32300604	4 x 6	0,26	22,9	541,4	811
32300404	4 x 4	0,26	27,4	844,8	1205
32300204	4 x 2	0,26	31,7	1305,6	1725

Other dimensions and colours are possible on request.

**TR 600 C HD**

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
32401804	4 x 18	0,21	9,8	64,7	131
32401604	4 x 16	0,26	10,5	86,8	159
32401404	4 x 14	0,26	11,6	149,9	221
32401204	4 x 12	0,26	12,8	197,7	281
32401004	4 x 10	0,26	16,9	309,7	461
32400804	4 x 8	0,26	22,1	476,0	740
32400604	4 x 6	0,26	26,2	711,9	1057
32400404	4 x 4	0,26	30,7	1044,0	1495
32400204	4 x 2	0,26	35,0	1533,3	2056

Other dimensions and colours are possible on request.

## Optical waveguide 1 x POF

06709001 · D-VIERSEN · POF-ADERLEITUNG 06709001



Aufdruck 06709001:

SAB BRÖCKSKES · D-VIERSEN · POF-ADERLEITUNG 06709001

### Construction:

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

### Technical Data:

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

### Outstanding features:

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

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

Other dimensions and colours are possible on request.



## CC 600 P black/blue/red PUR control cable with numbered black, blue or red cores



Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

Marking for CC 600 P black 02610510: SAB BRÖCKSKES · D-VIERSEN ·

02610510 5 x 1,0 mm<sup>2</sup> CC 600 P black 18 AWG/5c 02611805 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, T12 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers, 2 cores and > 8 cores twisted in layers with non-woven tape over the outer layer
<b>Inner sheath:</b>	ab 4,0 mm <sup>2</sup> : PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Sheath material:</b>	PU acc. to UL 758
<b>Sheath colour:</b>	grey (RAL 7000)

### Technical Data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	4 x d	
<i>flexible application:</i>	6 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA</b>
<i>fixed laying:</i>	-40/+70 °C	up to +80 °C
<i>flexible application:</i>	+5/+70 °C	up to +80 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - oilrating 60°C acc. to UL 1581	
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union	

### Outstanding features:

- oil resistant
- abrasion resistant
- notch resistant
- good chemical resistance



**blue cores:**  
item group 0263

**red cores:**  
item group 0264

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
02610205	2 x 0,50	0,21	6,2	10,3	48
02610305	3 x 0,50	0,21	6,4	15,4	56
02610405	4 x 0,50	0,21	6,8	20,5	66
02610505	5 x 0,50	0,21	7,4	25,6	79
02610705	7 x 0,50	0,21	7,9	35,9	96
02611205	12 x 0,50	0,21	10,1	61,5	144
02611805	18 x 0,50	0,21	11,6	92,3	203
02612505	25 x 0,50	0,21	13,7	128,2	265
02613005	30 x 0,50	0,21	14,1	153,8	306
02613405	34 x 0,50	0,21	15,2	174,3	347
02614205	42 x 0,50	0,21	16,6	215,3	432
02615005	50 x 0,50	0,21	18,0	256,4	492
02610207	2 x 0,75	0,21	6,7	14,4	58
02610307	3 x 0,75	0,21	6,9	21,6	67
02610407	4 x 0,75	0,21	7,4	28,8	80
02610507	5 x 0,75	0,21	8,0	36,0	96
02610707	7 x 0,75	0,21	9,3	50,4	130
02611207	12 x 0,75	0,21	11,1	86,4	178
02611807	18 x 0,75	0,21	12,9	129,6	253
02612507	25 x 0,75	0,21	15,2	180,0	330
02613007	30 x 0,75	0,21	16,0	216,0	393
02613407	34 x 0,75	0,21	17,3	244,8	446
02614207	42 x 0,75	0,21	18,5	302,4	542
02615007	50 x 0,75	0,21	20,1	360,0	621
02610210	2 x 1,00	0,21	6,9	19,2	64
02610310	3 x 1,00	0,21	7,1	28,8	76
02610410	4 x 1,00	0,21	7,7	38,4	91
02610510	5 x 1,00	0,21	8,3	48,0	110
02610710	7 x 1,00	0,21	9,6	67,2	148
02611210	12 x 1,00	0,21	11,5	115,2	207
02611810	18 x 1,00	0,21	13,4	172,8	297

Art.-Nr.	Aderzahl x Querschnitt n x mm <sup>2</sup>	Größter Einzeldraht ø mm	Außen-ø ± 5% mm	Cu- Zahl kg/km	Leitungs- gewicht ~ kg/km
02612510	25 x 1,00	0,21	16,0	240,0	397
02613010	30 x 1,00	0,21	16,7	288,0	465
02613410	34 x 1,00	0,21	18,0	326,4	528
02614210	42 x 1,00	0,21	19,2	403,2	642
02615010	50 x 1,00	0,21	22,5	480,0	806
02610215	2 x 1,50	0,26	7,5	28,8	79
02610315	3 x 1,50	0,26	7,8	43,2	96
02610415	4 x 1,50	0,26	8,4	57,6	116
02610515	5 x 1,50	0,26	9,1	72,0	140
02610715	7 x 1,50	0,26	10,6	100,8	190
02611215	12 x 1,50	0,26	12,8	172,8	271
02611815	18 x 1,50	0,26	14,9	259,2	392
02612515	25 x 1,50	0,26	18,0	360,0	536
02613015	30 x 1,50	0,26	18,6	432,0	625
02613415	34 x 1,50	0,26	20,1	489,6	786
02614215	42 x 1,50	0,26	22,9	604,8	936
02615015	50 x 1,50	0,26	25,0	720,0	1080
02610225	2 x 2,50	0,26	8,7	48,0	112
02610325	3 x 2,50	0,26	9,1	72,0	140
02610425	4 x 2,50	0,26	9,8	96,0	170
02610525	5 x 2,50	0,26	10,7	120,0	208
02610725	7 x 2,50	0,26	12,6	168,0	288
02611225	12 x 2,50	0,26	15,3	288,0	412
02611825	18 x 2,50	0,26	18,2	432,0	613
02612525	25 x 2,50	0,26	23,2	600,0	885
02610340	3 x 4,00	0,31	11,9	115,2	233
02610440	4 x 4,00	0,31	13,0	153,6	288
02610540	5 x 4,00	0,31	13,9	192,0	342
02610460	4 x 6,00	0,31	14,7	230,4	393
02610560	5 x 6,00	0,31	16,1	288,0	482
02610461	4 x 10,0	0,41	18,5	384,0	644

Other dimensions and colours are possible on request.



## CC 600 CP PUR control cable with numbered cores and overall copper screen

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



Marking for CC 600 CP 02812510: SAB BRÖCKSKES · D-VIERSEN · 02812510 25 x 1,0 mm<sup>2</sup> CC 600 CP  
18 AWG/25c 02811825 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	PVC, T12 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	PU acc. to UL 758
<b>Sheath colour:</b>	grey (RAL 7000)

### Technical Data:

<b>Nominal voltage:</b>	<b>DIN VDE</b> U <sub>0</sub> /U 300/500 V	<b>UL/CSA</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 core/screen 1000 V	
<b>Min. bending radius</b>		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	<b>DIN VDE</b>	<b>UL/CSA:</b>
<i>fixed laying:</i>	-40/+70 °C	up to +80 °C
<i>flexible application:</i>	+5/+70 °C	up to +80 °C
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
<b>Oil resistance:</b>	very good - oilrating 60°C acc. to UL 1581	
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union	

### Outstanding features:

- oil resistant
- abrasion resistant
- notch resistant
- good chemical resistance

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
02810205	2 x 0,50	0,21	6,7	26,1	62
02810305	3 x 0,50	0,21	7,0	31,3	70
02810405	4 x 0,50	0,21	7,4	38,1	80
02810505	5 x 0,50	0,21	8,0	45,2	95
02810705	7 x 0,50	0,21	8,5	57,5	112
02811205	12 x 0,50	0,21	10,6	90,6	167
02811805	18 x 0,50	0,21	12,4	146,4	245
02812505	25 x 0,50	0,21	14,4	194,3	314
02810207	2 x 0,75	0,21	7,2	31,9	72
02810307	3 x 0,75	0,21	7,5	39,2	82
02810407	4 x 0,75	0,21	8,0	48,4	95
02810507	5 x 0,75	0,21	8,6	57,7	112
02810707	7 x 0,75	0,21	9,9	76,6	148
02811207	12 x 0,75	0,21	11,8	140,2	219
02811807	18 x 0,75	0,21	13,5	189,3	297
02812507	25 x 0,75	0,21	16,4	277,8	414
02810210	2 x 1,00	0,21	7,4	36,8	79
02810310	3 x 1,00	0,21	7,7	48,3	91
02810410	4 x 1,00	0,21	8,3	59,9	107
02810510	5 x 1,00	0,21	8,9	71,6	127
02810710	7 x 1,00	0,21	10,2	96,1	168
02811210	12 x 1,00	0,21	12,2	169,2	248
02811810	18 x 1,00	0,21	14,1	238,8	347
02812510	25 x 1,00	0,21	17,0	349,4	482

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
02810315	3 x 1,50	0,26	8,4	64,8	112
02810415	4 x 1,50	0,26	9,0	81,3	133
02810515	5 x 1,50	0,26	9,7	98,2	159
02810715	7 x 1,50	0,26	11,4	148,4	225
02811215	12 x 1,50	0,26	13,5	232,4	316
02811815	18 x 1,50	0,26	16,1	356,7	475
02812515	25 x 1,50	0,26	18,9	483,1	627
02810325	3 x 2,50	0,26	9,7	98,2	158
02810425	4 x 2,50	0,26	10,4	125,0	189
02810525	5 x 2,50	0,26	11,5	167,6	240
02810725	7 x 2,50	0,26	13,4	227,6	326
02811225	12 x 2,50	0,26	16,5	385,9	496
02811825	18 x 2,50	0,26	19,1	555,4	704
02812525	25 x 2,50	0,26	24,1	740,9	992
02810340	3 x 4,00	0,31	11,3	162,7	232
02810440	4 x 4,00	0,31	12,2	207,6	281
02810540	5 x 4,00	0,31	13,3	251,5	340
02810360	3 x 6,00	0,31	13,1	227,2	323
02810460	4 x 6,00	0,31	14,2	296,2	395
02810560	5 x 6,00	0,31	15,7	385,1	498
02810461	4 x 10,0	0,41	19,0	494,9	692

Other dimensions and colours are possible on request.

## SABIX® A 260 PUR halogen-free, cold and oil resistant control cable with numbered cores



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

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX® 336
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Inner sheath:</b>	SABIX® 322 - from 4,0 mm²
<b>Sheath material:</b>	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Sheath colour:</b>	grey (RAL 7000)

### Outstanding features:

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

### Technical Data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Oil resistance:</b>	very good -TPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Flexibility:</b>	very good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union


item no.	no. of cores x cross section n x mm <sup>2</sup>	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 <sup>2</sup>	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 BUS / 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

5 mm<sup>2</sup> + 3 x 1,0 mm<sup>2</sup>  AWM Style 20235 80°C CE



Marking for S IBS 618 06186251:


SAB BRÖCKSKES · D-VIERSEN · S IBS 618 3 x 2 x 0,25 mm<sup>2</sup> + 3 x 1,0 mm<sup>2</sup>  AWM Style 20235 80°C CE

## General Construction:

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

## Technical Data:

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

	 S IBS 618*	SABIX® IBS 610	SABIX® IBS 610 FRNC
<b>► Conductor:</b>	0,25 mm <sup>2</sup> : bare copper strands with reference to DIN VDE 0812 1,00 mm <sup>2</sup> : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6	0,22 mm <sup>2</sup> : bare copper strands with reference to DIN VDE 0812 1,00 mm <sup>2</sup> : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6	0,22 mm <sup>2</sup> : bare copper strands with reference to DIN VDE 0812 1,00 mm <sup>2</sup> : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>► Core insulation:</b>	PE, 2Y11 with reference to DIN VDE 0207 part 2	SABIX® 336	SABIX® 336
<b>► Wrapping:</b>	non-woven tape	PETP foil	PETP foil
<b>► Outer sheath, colour red lilac (RAL 4001):</b>	PUR, TPU acc. to DIN VDE 0282 part 10, with rough surface	SABIX® 322	SABIX® 230
<b>► Voltage acc. to UL:</b>	300 V	–	–
<b>► Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	5 x 10 <sup>6</sup> cJ/kg	–
<b>► Temperature range:</b> <i>fixed laying:</i> <i>flexible application:</i>	<b>UL: up to +80°C</b> -40/+70°C -40/+70°C	-50/+90°C -40/+90°C	-40/+85°C -30/+85°C
<b>► Fire performance:</b> no flame propagation acc. to IEC 60332-3 and EN 60332-3 Cat. C resp. D	–	–	X
<b>► Fire performance:</b> flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2	X	–	X
<b>► Corrosiveness of conflagration gases:</b> in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	–	X	X
<b>► Smoke density:</b>	–	low	acc. to IEC 61034 and EN 61034
<b>► Oil resistance:</b>	very good - TPU acc. to DIN VDE 0282 part 10	very good - TM5 acc. to DIN VDE 0281 part 1	–
<b>► Flexibility:</b>	very good	very good	good
<b>► Application in cable tracks:</b>	recommended	not recommended	not recommended
<b>► Weather resistance:</b>	very good	good	good
<b>► Bending characteristic:</b> number of bendings DIN VDE 0472 part 603 test method H	min. 1.000.000 single bendings		
<b>► UL Style:</b>	20235-80°C	–	–

### Remote bus cables

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

item no.	type	no. of pairs x cross section mm <sup>2</sup>	outer- $\varnothing$ $\pm$ 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.

### Installation remote bus cables

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

item no.	type	no. of pairs/cores * cross section mm <sup>2</sup>	outer- $\varnothing$ $\pm$ 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



# PROFIBUS-DP CABLES acc. to EN 50170

**S PB 634** PUR Profibus-DP cable for cable tracks

**PB 633** Halogen-free, flexible PE Profibus-DP cable

**PB 632** Flexible PVC Profibus-DP cable



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

## General Construction:

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

## Technical Data:

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

	S PB 634	PB 633	PB 632
► <b>Conductor:</b>	0,34 mm <sup>2</sup> : bare copper strands acc. to DIN VDE 0812 1,00 mm <sup>2</sup> : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6	0,34 mm <sup>2</sup> : bare copper strands acc. to DIN VDE 0812 1,00 mm <sup>2</sup> : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5	0,34 mm <sup>2</sup> : bare copper strands acc. to DIN VDE 0812 1,00 mm <sup>2</sup> : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
► <b>Pairwise wrapping:</b>	non-woven tape/Alu foil, non-woven tape	Alu foil, PETP foil	Alu foil, PETP foil
► <b>Pairwise sheathing:</b>	TPE	-	-
► <b>Core insulation:</b>	0,34 mm <sup>2</sup> : DIN VDE 0819 part 103 (02Y11) 1,00 mm <sup>2</sup> : TPE	0,34 mm <sup>2</sup> : DIN VDE 0819 part 103 (02Y11) 1,00 mm <sup>2</sup> : PE, 2Y11 acc. to DIN VDE 0207 part 2	0,34 mm <sup>2</sup> : DIN VDE 0819 part 103 (02Y11) 1,00 mm <sup>2</sup> : PVC, T12 acc. to DIN VDE 0281 part 1
► <b>Outer sheath, redililac (RAL 4001):</b>	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
► <b>Temperature range:</b> <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
► <b>Fire performance:</b> flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2	-	-	X
► <b>Corrosiveness of conflagration gases:</b> in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	X	X	-
► <b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10	-	acc. to internal standard
► <b>For fixed installation:</b>	X	X	X
► <b>For flexible application:</b>	X	X	X
► <b>Suitable for cable tracks:</b>	X	-	-
► <b>Weather resistance:</b>	very good	good	medium

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.

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.



**PB 640** flexible PVC Profibus-DP cable

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

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

**S PB 640** highly flexible PUR Profibus-DP cable

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



Marking for S PB 640 06402601:

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

## General Construction:

<b>Conductor:</b>	bare copper wires AWG 24
<b>Core insulation:</b>	acc. to DIN VDE 0819 part1 103 (02Y11)
<b>Colour code:</b>	red, green
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	alu foil and tinned copper braiding

## Technical Data:

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

## Outstanding features:

- short assembling time
- avoidance of connection errors

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

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.

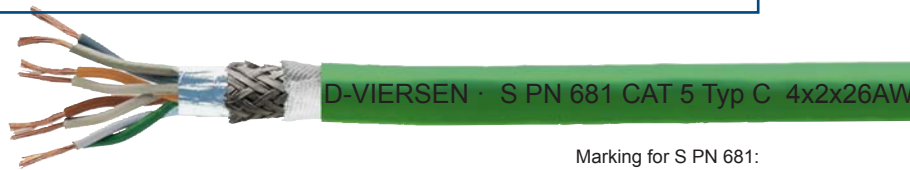
item no..	type	no. of cores x AWG	outer-ø ± mm	copper figure kg/km	cable weight ~ kg/km
06402421	PB 640	2 x AWG 24	8,0 ± 0,4	31,2	63
06402631	PB 640 UL	2 x AWG 24	8,0 ± 0,4	31,2	62
06402601	S PB 640	2 x AWG 24	8,0 ± 0,4	31,2	57
06402611	S PB 640 UL	2 x AWG 24	8,0 ± 0,4	31,2	62

Other dimensions and colours are possible on request.

# INDUSTRIAL ETHERNET CABLES CAT 5

**S PN 668** Profinet type C, continuously flexible  
**PN 661** Profinet type B, for flexible applications with UL recognition

**S PN 669** Profinet type C, continuously flexible with UL recognition  
**S PN 681** 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 type C continuously flexible
<b>Dimension:</b>	2 x 2 x 22 AWG			4 x 2 x 26 AWG
<b>Conductor:</b>	tinned copper strands, fine wires		bare copper strands, fine wires acc. to VDE 0812	tinned copper strands, fine wires
<b>Core insulation:</b>	PE		PE, L/MD acc. to DIN VDE 0819 part 103	SABIX® 151
<b>Colour code:</b>	blue, yellow, white, orange			white cores with numbers 1 - 4 (+ blue, orange, green, brown)
<b>Stranding:</b>	in layers			twisted pairs
<b>Wrapping:</b>	PETP foil			non-woven tapes + alu foil
<b>Inner sheat:</b>	thermoplastic material			—
<b>Wrapping:</b>	alu foil			—
<b>Screen:</b>	tinned copper braiding			
<b>Wrapping:</b>	Vlies			
<b>Outer sheath:</b>	PUR		SABIX® 235	PUR
<b>Sheath colour:</b>	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 type C continuously flexible
<b>Item number:</b>	0668-2202	0669-2202	0661-2202	0681-2604
<b>Peak operating voltage VDE:</b>	max. 350 V			
<b>Voltage UL:</b>	—	300 V		—
<b>Testing voltage:</b>	core/core 1500 V - core/screen 1200 V			
<b>Temperature range VDE</b> fixed laying: flexible application:	- 40°C / + 70°C - 30°C / + 70°C	<b>UL:</b> up to + 80°C - 30°C / + 70 °C - 20°C / + 70 °C	<b>UL:</b> up to + 75°C - 40°C / + 70 °C - 30°C / + 70 °C	- 40°C / + 90°C - 30°C / + 90°C
<b>Min. bending radius</b> 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
<b>Characteristic impedance:</b>	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency acc. to EN 50288-2-2 (CAT 5 acc. to EN 50173-1)			
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1			
<b>Oil resistance:</b>	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10	acc. to internal standard		—
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union			

item no.	type	no. of cores	cross section AWG	max. core-Ø 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
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 23!**



## FLEXIBLE CABLES

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

## TEMPERATURE MEASUREMENT

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

## CABLE HARNESSING

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