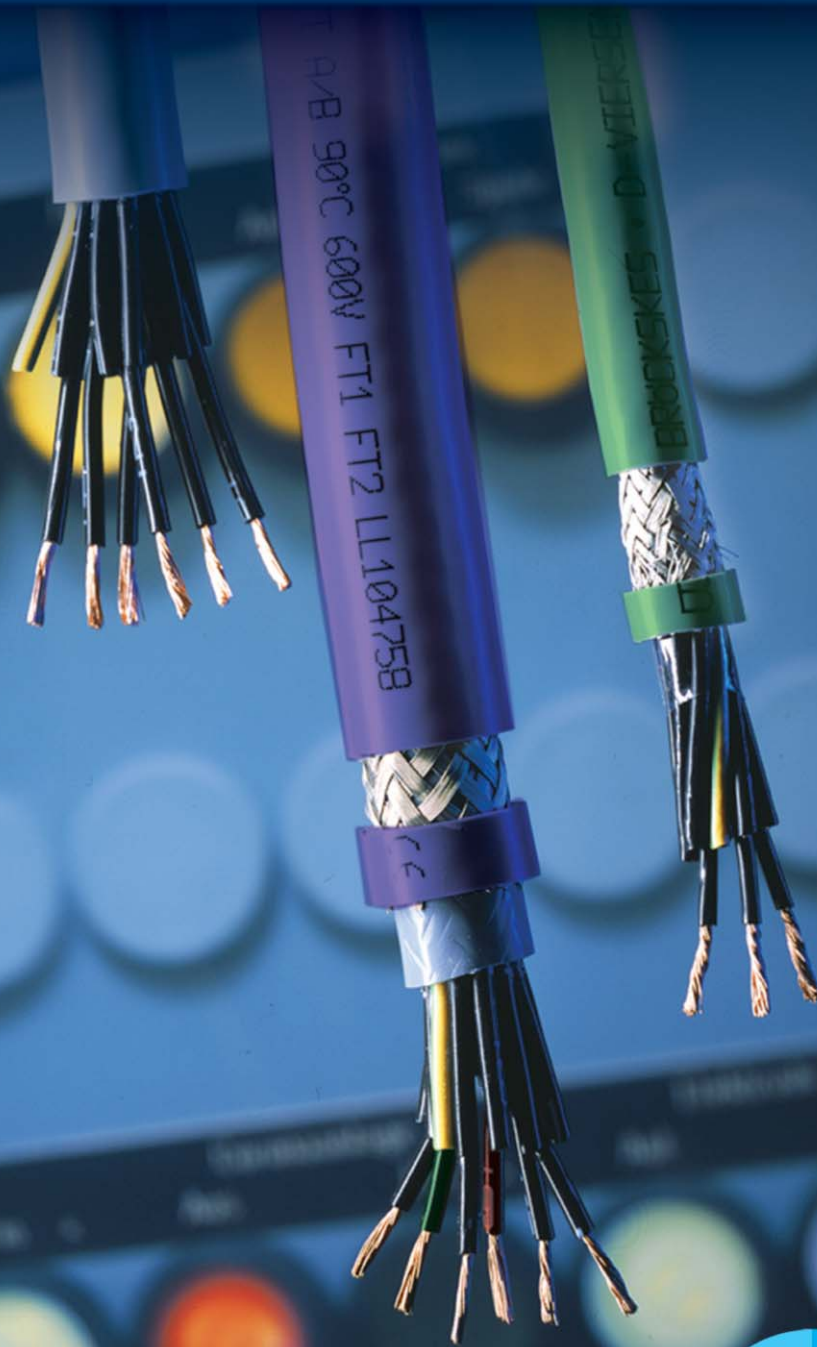


Cables for automation industry



www.sab-worldwide.com



Cable Track Cables

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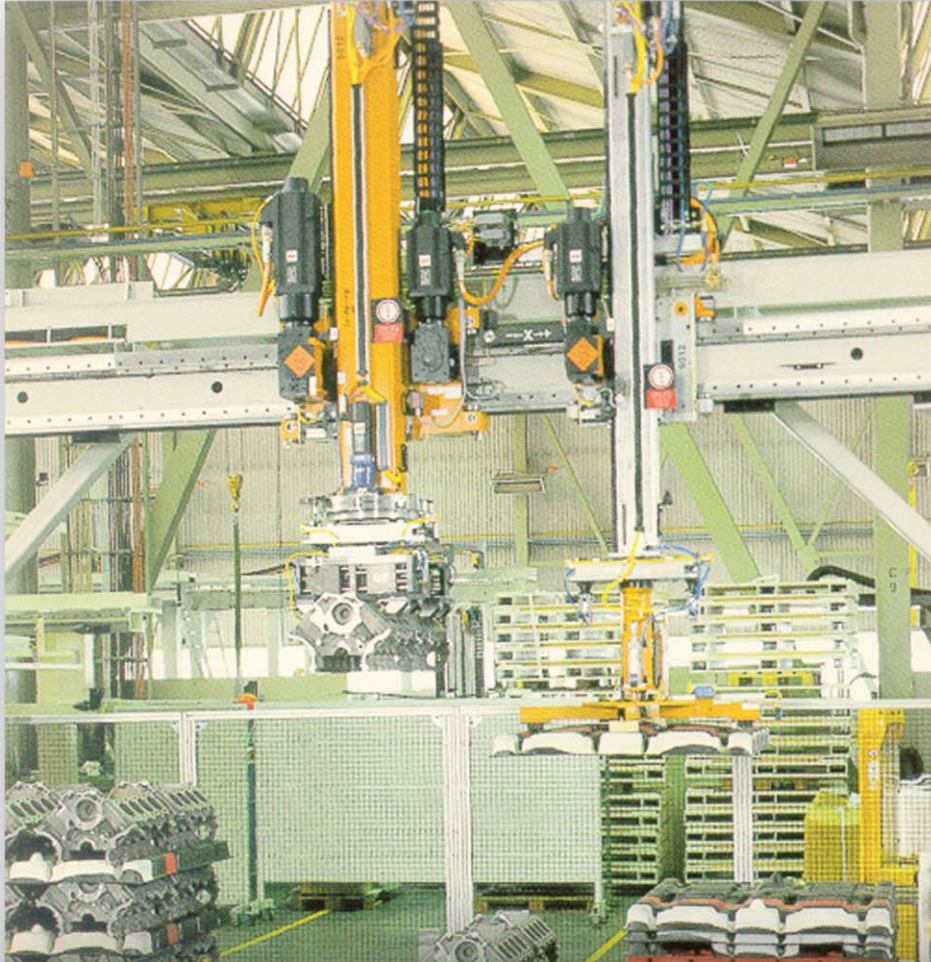


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- ▲ **S 980 P** continuously flexible TPE/PUR control cable
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- ▲ **SL 841 C** combined TPE/PUR motor connection cable with overall copper screen 0,6/1 kv
- ▲ **SL 842 C** TPE/PUR feedback cable with 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 mm² CE

Construction:

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

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:

Peak operating voltage:	max. 350 V acc. to DIN VDE
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509
Min. bending radius <i>continuously flexible:</i>	7,5 x d
Radiation resistance:	5 x 10 ⁶ cJ/kg
Temperature range <i>fixed laying:</i>	-50/+90 °C
<i>flexible application:</i>	-40/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
07740201	2 x 0,14	0,11	3,2	2,7	11
07740301	3 x 0,14	0,11	3,3	4,0	13
07740401	4 x 0,14	0,11	3,6	5,4	15
07740501	5 x 0,14	0,11	3,8	6,7	18
07740701	7 x 0,14	0,11	4,4	9,4	24
07741001	10 x 0,14	0,11	5,1	13,4	30
07741201	12 x 0,14	0,11	5,2	16,1	34
07741401	14 x 0,14	0,11	5,5	18,8	38
07741801	18 x 0,14	0,11	6,0	24,2	48
07742501	25 x 0,14	0,11	7,1	33,6	63
07743201	32 x 0,14	0,11	7,6	43,0	78
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 ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
07741202	12 x 0,25	0,11	5,8	28,8	49
07741402	14 x 0,25	0,11	6,1	33,6	56
07741802	18 x 0,25	0,11	6,8	43,2	71
07742502	25 x 0,25	0,11	8,1	60,0	94
07743202	32 x 0,25	0,11	8,8	76,8	120
07740203	2 x 0,34	0,11	3,7	6,5	17
07740303	3 x 0,34	0,11	3,9	9,8	21
07740403	4 x 0,34	0,11	4,2	13,1	25
07740503	5 x 0,34	0,11	4,5	16,3	30
07740703	7 x 0,34	0,11	5,2	22,8	41
07741003	10 x 0,34	0,11	6,1	32,6	52
07741203	12 x 0,34	0,11	6,3	39,2	60
07741403	14 x 0,34	0,11	6,6	45,7	69
07741803	18 x 0,34	0,11	7,3	58,8	87
07742503	25 x 0,34	0,11	8,9	81,6	119
07743203	32 x 0,34	0,11	9,5	104,4	149

Other dimensions and colours are possible on request.

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:

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

Outstanding features:

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

Technical Data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2
Min. bending radius continuously flexible:	7,5 x d
Radiation resistance:	5 x 10 ⁸ cJ/kg
Temperature range fixed laying:	-50/+90 °C
flexible application:	-40/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Oil resistance:	very good - TPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Also available as hybrid cable for example

16 x 0,5 mm² + 3 x 1,0 mm²

9 x 0,5 mm² + 3 x 1,0 mm²

see page 24

Peak operating voltage of data conductors: max. 500 V

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
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 ²	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:

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

Outstanding features:

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

Technical Data:

Peak operating voltage:	max. 350 V acc. to DIN VDE
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509 core/screen 1200 V
Min. bending radius <i>continuously flexible:</i>	7,5 x d
Radiation resistance:	5 x 10 ⁸ cJ/kg
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	-50/+90 °C -40/+90 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union

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

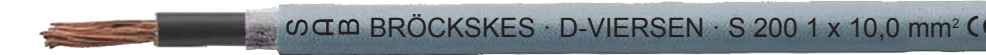
item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
07840703	7 x 0,34	0,11	5,7	38,9	53
07841203	12 x 0,34	0,11	6,9	68,6	82
07841803	18 x 0,34	0,11	8,0	96,6	115
07842503	25 x 0,34	0,11	9,6	131,5	155
07843203	32 x 0,34	0,11	10,2	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:

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

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

Also available as hybrid cable for example

3G1,0 + 16 x 0,34 mm²

3G1,0 + 8 x 0,34 mm²

1G0,5 + 4 x 0,34 mm²

Peak operating voltage of data conductors: max. 500 V

item no.	no. of cores x cross section n x mm ²	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 ²	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



BRÖCKSKES · D-VIERSEN · SD 200 C TP 3 x 2 x 0,5 mm² CE



Marking for SD 200 C TP 07890350:

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

Construction:

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

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**

Technical Data:

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

item no.	no. of pairs x cross section n x 2 x mm ²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ~ kg/km
07890214	2 x 2 x 0,14	0,11	4,6	15,9	28
07890314	3 x 2 x 0,14	0,11	5,1	20,2	34
07890414	4 x 2 x 0,14	0,11	5,8	24,8	41
07890514	5 x 2 x 0,14	0,11	6,3	28,7	48
07890714	7 x 2 x 0,14	0,11	6,7	35,8	60
07891014	10 x 2 x 0,14	0,11	7,7	47,4	72
07891414	14 x 2 x 0,14	0,11	9,1	62,7	97
07891814	18 x 2 x 0,14	0,11	9,8	73,7	117
07892514	25 x 2 x 0,14	0,11	11,7	114,1	169
07890225	2 x 2 x 0,25	0,11	5,1	21,3	37
07890325	3 x 2 x 0,25	0,11	5,7	28,3	43
07890425	4 x 2 x 0,25	0,11	6,6	44,2	60
07890525	5 x 2 x 0,25	0,11	7,0	51,6	64
07890725	7 x 2 x 0,25	0,11	7,5	54,1	83
07891025	10 x 2 x 0,25	0,11	9,1	83,5	113
07891425	14 x 2 x 0,25	0,11	10,9	108,5	154
07891825	18 x 2 x 0,25	0,11	11,6	133,3	188
07892525	25 x 2 x 0,25	0,11	13,6	171,9	246
07890234	2 x 2 x 0,34	0,11	5,4	25,2	41
07890334	3 x 2 x 0,34	0,11	6,0	33,5	51
07890434	4 x 2 x 0,34	0,11	7,1	53,6	70
07890534	5 x 2 x 0,34	0,11	7,4	53,1	76
07890734	7 x 2 x 0,34	0,11	8,0	66,3	97

item no.	no. of pairs x cross section n x 2 x mm ²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ~ kg/km
07891034	10 x 2 x 0,34	0,11	9,4	90,5	123
07891434	14 x 2 x 0,34	0,11	11,6	138,3	183
07891834	18 x 2 x 0,34	0,11	12,5	169,0	224
07892534	25 x 2 x 0,34	0,11	14,5	220,8	297
07890250	2 x 2 x 0,50	0,16	6,5	34,5	68
07890350	3 x 2 x 0,50	0,16	7,2	47,5	80
07890450	4 x 2 x 0,50	0,16	8,4	61,4	94
07890550	5 x 2 x 0,50	0,16	9,0	70,8	108
07890750	7 x 2 x 0,50	0,16	9,8	92,5	141
07891050	10 x 2 x 0,50	0,16	12,1	143,2	196
07891450	14 x 2 x 0,50	0,16	14,1	191,7	265
07891850	18 x 2 x 0,50	0,16	15,7	257,3	351
07892550	25 x 2 x 0,50	0,16	18,1	336,3	451
07890275	2 x 2 x 0,75	0,16	7,2	47,5	76
07890375	3 x 2 x 0,75	0,16	8,2	66,2	97
07890475	4 x 2 x 0,75	0,16	9,8	101,0	136
07890575	5 x 2 x 0,75	0,16	11,1	113,4	165
07890775	7 x 2 x 0,75	0,16	11,9	147,8	215
07891075	10 x 2 x 0,75	0,16	14,3	203,7	280
07891475	14 x 2 x 0,75	0,16	17,0	296,9	390
07891875	18 x 2 x 0,75	0,16	18,5	355,9	487
07892575	25 x 2 x 0,75	0,16	21,2	479,8	629

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



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



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

Construction:

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

Technical Data:

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

Outstanding features:

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



On request with
green-yellow insulation

S 910 P

Colour of insulation: ► black

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	AWG/ MCM	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
37681340	1 x 4,00	0,16	12	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 ²	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:

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

Technical Data:

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

Outstanding features:

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

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
77740301	3 x 0,14	0,11	3,8	4,0	16
77740401	4 x 0,14	0,11	4,1	5,4	19
77740501	5 x 0,14	0,11	4,5	6,7	23
77740701	7 x 0,14	0,11	4,9	9,4	28
77741001	10 x 0,14	0,11	5,6	13,4	36
77741401	14 x 0,14	0,11	6,0	18,8	45
77741801	18 x 0,14	0,11	6,6	24,2	54
77742501	25 x 0,14	0,11	7,6	33,6	71
77740302	3 x 0,25	0,11	4,2	7,2	21
77740402	4 x 0,25	0,11	4,4	9,6	25
77740502	5 x 0,25	0,11	4,8	12,0	30
77740702	7 x 0,25	0,11	5,4	16,8	37

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
77741002	10 x 0,25	0,11	6,2	24,0	49
77741402	14 x 0,25	0,11	6,6	33,6	62
77741802	18 x 0,25	0,11	7,3	43,2	77
77742502	25 x 0,25	0,11	8,6	60,0	102
77740303	3 x 0,34	0,11	4,4	9,8	24
77740403	4 x 0,34	0,11	4,7	13,1	29
77740503	5 x 0,34	0,11	5,2	16,3	35
77740703	7 x 0,34	0,11	5,8	22,8	44
77741003	10 x 0,34	0,11	6,6	32,6	59
77741403	14 x 0,34	0,11	7,1	45,7	75
77741803	18 x 0,34	0,11	7,8	58,8	93
77742503	25 x 0,34	0,11	9,2	81,6	124

Other dimensions and colours are possible on request.



Possible on request!

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



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 mm² 19 AWG/18c 77741918

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

Construction:

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

Outstanding features:

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

Technical Data:

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

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
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 ²	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:

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

Technical Data:

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

Outstanding features:

- labs uncritical**
(labs = enamel 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 ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
77840301	3 x 0,14	0,11	4,2	14,3	24
77840401	4 x 0,14	0,11	4,5	15,7	27
77840501	5 x 0,14	0,11	4,9	20,6	33
77840701	7 x 0,14	0,11	5,3	23,4	38
77841001	10 x 0,14	0,11	6,0	29,4	47
77841401	14 x 0,14	0,11	6,4	34,9	55
77841801	18 x 0,14	0,11	7,0	43,8	68
77842501	25 x 0,14	0,11	8,0	57,3	88
77840302	3 x 0,25	0,11	4,6	17,6	29
77840402	4 x 0,25	0,11	4,8	20,0	32
77840502	5 x 0,25	0,11	5,2	25,9	40
77840702	7 x 0,25	0,11	5,8	30,9	47

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
77841002	10 x 0,25	0,11	6,6	41,7	61
77841402	14 x 0,25	0,11	7,0	53,2	76
77841802	18 x 0,25	0,11	7,8	64,7	91
77842502	25 x 0,25	0,11	9,0	86,3	120
77840303	3 x 0,34	0,11	4,8	20,2	32
77840403	4 x 0,34	0,11	5,1	26,9	39
77840503	5 x 0,34	0,11	5,6	30,4	44
77840703	7 x 0,34	0,11	6,2	38,9	55
77841003	10 x 0,34	0,11	7,0	52,2	72
77841403	14 x 0,34	0,11	7,5	67,0	89
77841803	18 x 0,34	0,11	8,2	82,5	108
77842503	25 x 0,34	0,11	9,6	110,7	142

Other dimensions and colours are possible on request.



Possible on request!

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



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 FT2 CE

Marking for S 980 CP 77840715: SAB BRÖCKSKES · D-VIERSEN · 77840715 7 x 1,5 mm² 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:

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

Technical Data:

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

Outstanding features:

- labs uncritical**
(labs = enamel 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 ²	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 ²	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



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:

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

Technical Data:

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

Outstanding features:

- labs uncritical**
(labs = enamel 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 ²	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 ²	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 mm² + 2 x (2 x 0,34 mm²) **DESINA** CE

Construction:

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

Technical Data:

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

Outstanding features:

- very good EMC characteristics
- 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.

DESINA
INDRAMAT
SIEMENS



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 mm² (1000V) + 2 x (2 x 0,34 mm²) (300V) **DESINA** AWM Style 20235 80°C CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

Construction:

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

Technical Data:

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

Outstanding features:

- 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

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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.

SL 823 C PUR motor connection cable with TPE cores and overall copper screen 0.6/1 kV



Marking for SL 823 C 08230415:
SAB BRÖCKSKES · D-VIERSEN · SL 823 C 0,6/1 kV 4 x 1,5 mm² **DESINA** CE

Construction:

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

Technical Data:

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

Outstanding features:

- very good EMC characteristics
- 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**

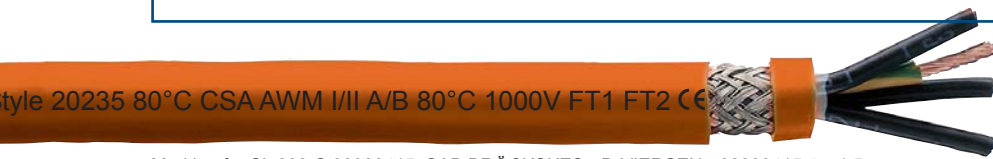
DESINA

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

Other dimensions and colours are possible on request.



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 mm²
 SL 833 C 16 AWG/4c 08331604 1000V **DESINA** AWM Style 20235 80°C CSA AWM I/II A/B 80°C 1000V FT1 FT2 CE

Construction:

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

Technical Data:

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

Outstanding features:

- UL + CSA approvals**
- 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**

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
08330415	4 x 1,50	0,16	9,1	83,5	126
08330425	4 x 2,50	0,16	11,0	142,5	192
08330440	4 x 4,00	0,16	12,5	206,7	273
08330460	4 x 6,00	0,21	15,5	298,3	399
08330470	4 x 10,0	0,21	17,8	495,2	605
08330480	4 x 16,0	0,21	22,8	750,0	951
08330490	4 x 25,0	0,21	25,7	1120,2	1331
08330495	4 x 35,0	0,21	29,2	1534,3	1732
08330496	4 x 50,0	0,31	34,3	2144,0	2428

Other dimensions and colours are possible on request.

DESINA

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



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



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

Construction:

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

Technical Data:

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

Outstanding features:

- very good EMC characteristics
- 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



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 mm² 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

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 mm² + 2 x 0,5 mm²
 AWM-Style 20235 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 CE

Construction:

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

Technical Data:

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

Outstanding features:

- 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.

**DESINA®
SIEMENS**

INDRAMAT





SL 839 C PUR transmission cable with overall copper screen



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

Marking for SL 839 C 08390138:

Construction:

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

Technical Data:

Peak operatin voltage:	max. 30 V	
Voltage UL:	30 V	
Testing voltage U:	750 V	
Min. bending radius		
<i>fixed laying:</i>	5 x d	
<i>flexible application:</i>	10 x d	
<i>continuously flexible:</i>	12 x d	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL: up to +80°C
<i>fixed laying:</i>	-40/+70 °C	
<i>flexible application:</i>	-20/+70 °C	
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc. or oilrating 60°C acc. to UL 758	
Weather resistance:	very good	
Absence of harmful substances:	acc. to RoHS directive of the European Union	

Outstanding features:

- 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
NEW! 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 mm² + 3 x 1,0 mm² CE



Marking for PUR-Sensorleitung 07489001:

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

Construction:

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

Technical Data:

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

Outstanding features:

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

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 ²	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 mm² 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:

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

Technical Data:

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

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 ²	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 ²	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 ²	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 WTTTC

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) WTTTC 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:

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

Outstanding features:

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

Technical Data:

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

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

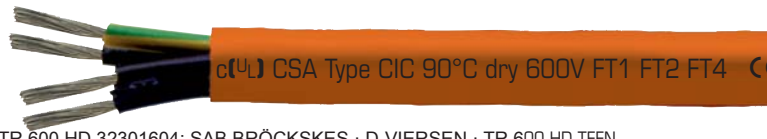
tem no.	no. of cores x cross section n x AWG	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
32121609	9 x 16	0,16	13,1	129,6	270
32121612	12 x 16	0,16	14,5	172,8	324
32121616	16 x 16	0,16	16,0	230,4	410
32121618	18 x 16	0,16	16,8	259,2	453
32121619	19 x 16	0,16	17,6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

TR 600 C HD Typ WTTTC 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 III -40°C FT4 (UL) WTTTC 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 III -40°C FT4

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

Construction:

Conductor:	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
Insulation:	special formulated PVC/Nylon
Colour code:	black cores with consecutive white numbers and a green-yellow earth wire
Stranding:	in layers
TR 600 C HD Inner sheath:	PVC, black
TR 600 C HD Screen:	tinned copper braiding
Sheath material:	TPE 356
Sheath colour:	orange (RAL 2003)

Technical Data:

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

Outstanding features:

- heavy duty tray cable control and instrumentation cable
- UL-AWM approved for + 105 °C
- Extreme oil resistant
- New: Improved with WTTTC approval
- WTTTC: 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:

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

Technical Data:

Bending radius	
<i>short time use:</i>	> 30 mm (with installation, not operating)
<i>continuously:</i>	> 80 mm
<i>continuously in cable track:</i>	> 100 mm
Strain relief:	max. 1680 N
Temperature range	
<i>storage:</i>	-20/+70 °C
<i>operation:</i>	0/+70 °C
Specific impedance:	0,2 dB/m at 650nm
Reversed bending strength:	> 100.000 cycles ± 90°; r=100 mm; drawing force 2 N
Bending attenuation:	additionally 0,2 dB/m for 10 windings with r=50 mm
Absence of harmful substances:	acc. to RoHS directive of the European Union
POF:	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 mm² 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:

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

Technical Data:

Nominal voltage:	DIN VDE U ₀ /U 300/500 V	UL/CSA 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
Min. bending radius		
fixed laying:	4 x d	
flexible application:	6 x d	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range	DIN VDE	UL/CSA
fixed laying:	-40/+70 °C	up to +80 °C
flexible application:	+5/+70 °C	up to +80 °C
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, UL VW-1, CSA FT1 and FT2	
Oil resistance:	very good - oilrating 60°C acc. to UL 1581	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Absence of harmful substances:	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 ²	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 ²	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 mm² 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:

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

Technical Data:

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

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	SABIX® 336
Colour code:	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
Stranding:	in layers
Inner sheath:	SABIX® 322 - from 4,0 mm ²
Sheath material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Sheath colour:	grey (RAL 7000)

Outstanding features:

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

Technical Data:

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

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
52600207	2 x 0,75	0,21	5,6	14,4	39
52600307	3 x 0,75	0,21	5,9	21,6	47
52600407	4 x 0,75	0,21	6,4	28,8	57
52600507	5 x 0,75	0,21	7,0	36,0	68
52600707	7 x 0,75	0,21	7,6	50,4	87
52601007	10 x 0,75	0,21	9,6	72,0	119
52601207	12 x 0,75	0,21	10,3	86,4	145
52601807	18 x 0,75	0,21	12,0	129,6	206
52602507	25 x 0,75	0,21	14,7	180,0	284
52600210	2 x 1,00	0,21	5,8	19,2	44
52600310	3 x 1,00	0,21	6,1	28,8	54
52600410	4 x 1,00	0,21	6,6	38,4	66
52600510	5 x 1,00	0,21	7,3	48,0	81
52600710	7 x 1,00	0,21	7,9	67,2	103
52601010	10 x 1,00	0,21	10,4	96,0	143
52601210	12 x 1,00	0,21	10,7	115,2	173
52601810	18 x 1,00	0,21	12,5	172,8	247
52602510	25 x 1,00	0,21	15,3	240,0	341
52600215	2 x 1,50	0,26	6,4	28,8	57
52600315	3 x 1,50	0,26	6,8	43,2	72
52600415	4 x 1,50	0,26	7,4	57,6	88
52600515	5 x 1,50	0,26	8,1	72,0	107
52600715	7 x 1,50	0,26	8,8	100,8	139

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ~ kg/km
52601015	10 x 1,50	0,26	11,6	144,0	191
52601215	12 x 1,50	0,26	12,0	172,8	233
52601815	18 x 1,50	0,26	14,0	259,2	336
52602515	25 x 1,50	0,26	17,0	360,0	451
52600225	2 x 2,50	0,26	7,6	48,0	86
52600325	3 x 2,50	0,26	8,5	72,0	114
52600425	4 x 2,50	0,26	8,8	96,0	135
52600525	5 x 2,50	0,26	10,1	120,0	172
52600725	7 x 2,50	0,26	11,0	168,0	224
52601025	10 x 2,50	0,26	14,0	240,0	311
52601225	12 x 2,50	0,26	14,9	288,0	373
52601825	18 x 2,50	0,26	17,4	432,0	539
52602525	25 x 2,50	0,26	21,7	600,0	755
52600340	3 x 4,00	0,31	11,7	115,2	198
52600440	4 x 4,00	0,31	12,6	153,6	243
52600540	5 x 4,00	0,31	13,7	192,0	293
52600360	3 x 6,00	0,31	14,0	172,8	290
52600460	4 x 6,00	0,31	15,1	230,4	357
52600560	5 x 6,00	0,31	16,4	288,0	431
52600461	4 x 10,0	0,41	18,9	384,0	582
52600561	5 x 10,0	0,41	20,6	480,0	709
52600462	4 x 16,0	0,41	22,2	614,4	851
52600562	5 x 16,0	0,41	24,4	768,0	1041

Other dimensions and colours are possible on request.

REMOTE BUS / INSTALLATION REMOTE BUS CABLES

S IBS 618 PUR Interbus-S cable for cable tracks with UL approval **SABIX® IBS 610** halogen-free Interbus-S cable
SABIX® IBS 610 FRNC halogen-free, flame retardant Interbus-S cable



Marking for S IBS 618 06186251:

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

General Construction:

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

Technical Data:

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

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

Remote bus cables

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

item no.	type	no. of pairs x cross section mm ²	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 mm² + 3 x 1,0 mm² or 3 x 2 x 0,25 mm² + 3 x 1,0 mm² are used for the sensor/actuator level of industrial communication

item no.	type	no. of pairs/cores * cross section mm ²	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



BRÖCKSKES · D-VIERSEN · PB 632 2 x 0,34 mm² CE

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

General Construction:

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

Technical Data:

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

	S PB 634	PB 633	PB 632
► Conductor:	0,34 mm ² : bare copper strands acc. to DIN VDE 0812 1,00 mm ² : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6	0,34 mm ² : bare copper strands acc. to DIN VDE 0812 1,00 mm ² : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5	0,34 mm ² : bare copper strands acc. to DIN VDE 0812 1,00 mm ² : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
► Pairwise wrapping:	non-woven tape/Alu foil, non-woven tape	Alu foil, PETP foil	Alu foil, PETP foil
► Pairwise sheathing:	TPE	–	–
► Core insulation:	0,34 mm ² : DIN VDE 0819 part 103 (02Y11) 1,00 mm ² : TPE	0,34 mm ² : DIN VDE 0819 part 103 (02Y11) 1,00 mm ² : PE, 2Y11 acc. to DIN VDE 0207 part 2	0,34 mm ² : DIN VDE 0819 part 103 (02Y11) 1,00 mm ² : PVC, T12 acc. to DIN VDE 0281 part 1
► Outer sheath, redlilac (RAL 4001):	PUR, TMPU acc. to DIN VDE 0282 part 10 with rough surface	PE, 2YM1 acc. to DIN VDE 0207 part 3	PVC, TM1 acc. to DIN VDE 0281 part 1
► Temperature range: <i>fixed laying:</i> <i>flexible application:</i>	-40/+80°C -40/+80°C	-40/+70°C -40/+70°C	-30/+70°C -5/+70°C
► Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2	–	–	X
► Corrosiveness of conflagration gases: in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	X	X	–
► Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10	–	acc. to internal standard
► For fixed installation:	X	X	X
► For flexible application:	X	X	X
► Suitable for cable tracks:	X	–	–
► Weather resistance:	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 approval

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

S PB 640 highly flexible PUR Profibus-DP cable



Marking for S PB 640 06402601:

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

General Construction:

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

Technical Data:

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

Outstanding features:

- short assembling time
- avoidance of connection errors

	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:				
fixed laying:	-30/+70°C	<u>UL: up to +80°C</u> -30/+70°C	-40/+80°C	<u>UL: up to +60°C</u> -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.

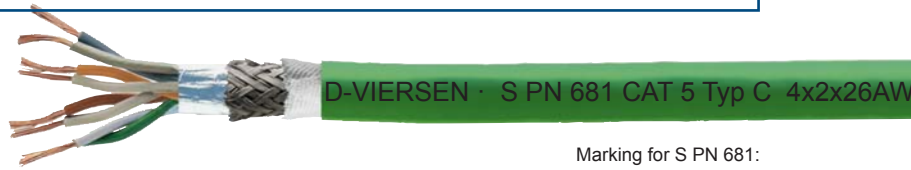
item no..	type	no. of cores x AWG	outer-ø ± mm	copper figure kg/km	cable weight ~ kg/km
06402421	PB 640	2 x AWG 24	8,0 ± 0,4	31,2	63
06402631	PB 640 UL	2 x AWG 24	8,0 ± 0,4	31,2	62
06402601	S PB 640	2 x AWG 24	8,0 ± 0,4	31,2	57
06402611	S PB 640 UL	2 x AWG 24	8,0 ± 0,4	31,2	62

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 approval

S PN 669 Profinet type C, continuously flexible with UL approval
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
Dimension:	2 x 2 x 22 AWG			4 x 2 x 26 AWG
Conductor:	tinned copper strands, fine wires		bare copper strands, fine wires acc. to VDE 0812	tinned copper strands, fine wires
Core insulation:	PE		PE, L/MD acc. to DIN VDE 0819 part 103	SABIX® 151
Colour code:	blue, yellow, white, orange			white cores with numbers 1 - 4 (+ blue, orange, green, brown)
Stranding:	in layers			twisted pairs
Wrapping:	PETP foil			non-woven tapes + alu foil
Inner sheat:	thermoplastic material			---
Wrapping:	alu foil			---
Screen:	tinned copper braiding			
Wrapping:	Vlies			
Outer sheath:	PUR		SABIX® 235	PUR
Sheath colour:	green (similar RAL 6018)			

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