B

Continuous Flex **Cables**

Chapter B

B 2

Item	Description	Page
Cable Track Data and Control Cables with UL Recognition, CSA Approval		
S 900	Continuous flex oil resistant power supply cable for small bend radius applications, UL, CSA, CE	B 7
S 900 P	Continuous flex oil and abrasion resistant power supply cable for small bend radius applications with TPE jacket, UL, CSA, CE	B 8
S 910 P	Continuous flex oil and abrasion resistant power supply cable for small bend radius applications with TPE insulation and jacket, UL, CSA, CE	B 9
S 910 CP	Continuous flex oil and abrasion resistant shielded power supply cable for small bend radius applications with TPE insulation and jacket, UL, CSA, CE	B 10
SD 960	Continuous flex data cable for small bending radius, UL, CE	B 11
S 960	Continuous flex control cable for small bending radius, UL, CSA, CE	B 12
S 960 red	Continuous flex control cable for small bending radius, UL, CSA, CE	B 13
SD 960 CY	Shielded continuous flex data cable for small bending radius, UL, CE	B 14
S 960 CY	Shielded continuous flex control cable for small bending radius, UL, CSA, CE	B 15
S 960 CY red	Shielded continuous flex control cable for small bending radius, UL, CSA, CE	B 16
SD 960 CY TP	Continuous flex twisted pairs shielded data cable for small bending radius, UL, CE	B 17
SD 960 P	Continuous flex polyurethane data cable for small bending radius, UL, CSA, CE	B 18
S 960 P	Continuous flex polyurethane control cable for small bending radius, UL, CSA, CE	B 19
SD 960 CP	Continuous flex shielded polyurethane data cable for small bending radius, UL, CSA, CE	B 20
S 960 CP	Continuous flex shielded polyurethane control cable for small bending radius, UL, CSA, CE	B 21
SD 960 CP TP	Continuous flex twisted pairs shielded polyurethane data cable for small bending radius, UL, CSA, CE	B 22
SD 980 P	High speed continuous flex heavy duty halogen-free TPE data cable, UL, CSA, CE	B 23
S 980 P	High speed continuous flex heavy duty halogen-free TPE control cable, UL, CSA, CE	B 24
SD 980 CP	High speed continuous flex shielded heavy duty halogen-free TPE data cable, UL, CSA, CE	B 25
S 980 CP	High speed continuous flex shielded heavy duty halogen-free TPE control cable, UL, CSA, CE	B 26
SD 980 CP TP	High speed continuous flex twisted pairs heavy duty halogen-free shielded TPE control cable, UL, CSA, CE	B 27

Chapter B

Item	Description	Page
Cable Track Data and Control Cables		
SD 86	Continuous flex data cable for moderate flexing applications, CE	B 28
S 86	Continuous flex cable for moderate flexing applications, CE	B 29
SD 86 C	Shielded continuous flex data cable for moderate flexing applications, CE	B 30
S 86 C	Shielded continuous flex cable for moderate flexing applications, CE	B 31
SD 86 C TP	Continuous flex twisted pairs shielded data cable for moderate flexing applications, CE	B 32
SD 200	Continuous flex halogen-free TPE data cable with extreme temperature range, CE	B 33
S 200	Continuous flex halogen-free TPE control cable with extreme temperature range, CE	B 34-35
SD 200 C	Continuous flex halogen-free TPE shielded data cable with extreme temperature range, CE	B 36
S 200 C	Continuous flex halogen-free TPE shielded control cable with extreme temperature range, CE	B 37-39
SD 200 C TP	Continuous flex halogen-free twisted pairs shielded TPE data cable with extreme temperature range, CE	B 40

Applications

■ Due to high technology automation systems getting increasingly faster in all areas of production and applications, industrial customers are demanding innovative products from the cable industry. Together with our customers, SAB BRÖCKSKES is constantly developing and improving our cable track cables to keep this product range up to date. Cable track cables are produced especially for applications with highly flexible bending stress. One of our top products within this product range is our type S 980 CP. With UL recognition and CSA approval, this cable reflects the high quality standard of our cable track cables.

■ Our highly flexible cables are suitable for constant use with extremely high bending stress during multiple-shift operation. You can use our advanced cable technology in order to enhance the efficiency of your machines and appliances and, therefore, always be one step ahead of your competitors.

■ Application of PVC cable track cables

SAB PVC cable track cables are intended for flexible use, e.g. control or data cables in cable tracks installed on machine tools and robot devices, wherever energy supply and signals are transmitted to machines and appliances that are in permanent movement.

Exemplary applications:

SD 86/S 86 **SD 86 C/S 86 C** **SD 86 C TP**	Wood working and packaging machines, assembly lines, automation plants
S 900 **SD 960/S 960/S 960 red** **SD 960 CY/S 960 CY/S 960 CY red** **SD 960 CY TP**	Wood working and packaging machines, assembly lines, automation plants, also for the American market

■ Application of PUR/TPE cable track cables

SAB PUR/TPE cable track cables are intended for continuously flexing use, e.g. in cable tracks, control or data cables installed on industrial robots, automation plants, robot devices, automation systems, mostly where very high flexibility, abrasion resistance, notch resistance, oil and chemical resistance are requested. The cables are suitable for permanent use with millions of bending cycles during multiple-shift operation. The cut resistant and low-adhesion PUR/TPE sheath guarantees higher service life and high efficiency.

Exemplary applications:

SD 200/S 200 **SD 200 C/S 200 C** **SD 200 C TP**	Pick-n-place, material handling and automation technologies, wood working and packaging machines, industrial robot construction, car manufacturing industry, high rack construction
S 900 P/S 910 P/S 910 CP **SD 960 P/S 960 P** **SD 960 CP/S 960 CP** **SD 960 CP TP**	Pick-n-place, material handling and automation technologies, wood working and packaging machines, car manufacturing industry, press manufacturing
SD 980 P/S 980 P **SD 980 CP/S 980 CP** **SD 980 CP TP**	Pick-n-place, material handling and automation technologies, wood working and packaging machines, industrial robot construction, car manufacturing industry, high rack construction

Selection index

	Cable type	S 900	S 900 P	S 910 P	S 910 CP	SD 960	S 960/ S 960 red	SD 960 CY	S 960 CY/ S 960 CY red	SD 960 CY TP	SD 960 P	S 960 P	SD 960 CP	S 960 CP	SD 960 CP TP
Application	Data cables					x		x		x	x		x		x
	Control cables	x	x	x	x		x		x			x		x	
	Bare copper strands, extra fine wires					x		x		x	x		x		x
	Screened				x			x	x	x			x	x	x
	No coupling of individual signals by twisted-pair cabling,low influence on neighbored cable circuits, effective suppression of crosstalk and side-to-side crosstalk effects									x					x
Temperature range static*	+ 90°C														
	+ 80°C														
	+ 70°C														
	– 30°C														
	– 40°C														
	– 50°C														
Voltage	Peak operating voltage max. 350 V					x		x		x	x		x		x
	Peak operating voltage UL/CSA 300 V					x		x		x	x		x		x
	Nominal voltage Uo/U 300/500 V						x		x			x		x	
	Nominal voltage Uo/U 0,6/1 kV	x	x	x	x										
	Voltage UL/CSA 600 V						x		x			x		x	
	Voltage UL 600 V / CSA 1000 V			x	x										
	Testing voltage 1500 V					x		x		x	x		x		x
	Testing voltage 2000 V														
	Testing voltage 3000 V						x		x			x		x	
Characteristics, standards and approvals	Flexible at low temperature														
	LABS uncritical**	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Zero halogen acc. to DIN VDE and IEC														
	Flame retardant and self-extinguishing acc. to IEC + EN	x	x	x	x				x	x					
	Flame retardant and self-extinguishing acc. to UL/CSA	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	UL recognized	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	CSA approved	x	x	x	x		x		x		x	x	x	x	x
	Oil resistant acc. to internal standard					x	x	x	x	x					
	Oil resistant acc. to DIN VDE	x	x	x	x						x	x	x	x	x
	Good chemical resistance		x	x	x						x	x	x	x	x
	Weathering resistance														
Application A: high service life B: medium service life C: short service life	At acceleration values of up to 05 m/s²	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 20 m/s²	B	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 40 m/s²	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	more than 40 m/s²	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	At path feet rates of up to 1 m/s	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 3 m/s	B	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 10 m/s	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	more than 10 m/s	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	For cable tracks with a length of up to 5 m	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 10 m	B	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 25 m	C	B	B	B	C	C	C	C	C	B	B	B	B	B
	more than 25 m	C	B	B	B	C	C	C	C	C	B	B	B	B	B
	These pages are meant to be helpful for choosing cables, they do not contain any guaranteed characteristics. Please also see the technical data on the particular catalogue pages.														

Temperature range:
from
to

*The temperature range for flexing is mentioned on the particular catalogue page

**LABS = enamel moisturing interfering substances

Selection index

	Cable type	SD 980 P	S 980 P	SD 980 CP	S 980 CP	SD 980 CP TP	SD 86	S 86	SD 86 C	S 86 C	SD 86 C TP	SD 200	S 200	SD 200 C	S 200 C	SD 200 C TP
Application	Data cables	x		x		x	x		x		x	x		x		x
	Control cables		x		x			x		x			x		x	
	Bare copper strands, extra fine wires	x		x		x	x		x		x	x		x		x
	Screened			x	x	x			x	x	x			x	x	x
	No coupling of individual signals by twisted-pair cabling,low influence on neighbored cable circuits, effective suppression of crosstalk and side-to-side crosstalk effects					x					x					x
Temperature range static*	+ 90°C															
	+ 80°C															
	+ 70°C															
	– 30°C															
	– 40°C															
	– 50°C															
Voltage	Peak operating voltage max. 350 V	x		x		x	x		x		x	x		x		x
	Peak operating voltage UL/CSA 300 V	x		x		x										
	Nominal voltage Uo/U 300/500 V		x		x			x		x			x		x	
	Nominal voltage Uo/U 0,6/1 kV															
	Voltage UL/CSA 600 V		x		x											
	Voltage UL 600 V / CSA 1000 V															
	Testing voltage 1500 V	x		x		x	x		x		x	x		x		x
	Testing voltage 2000 V												x		x	
	Testing voltage 3000 V		x		x			x		x						
Characteristics, standards and approvals	Flexible at low temperature	x	x	x	x	x						x	x	x	x	x
	LABS uncritical**	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	Zero halogen acc. to DIN VDE and IEC	x	x	x	x	x						x	x	x	x	x
	Flame retardant and self-extinguishing acc. to IEC + EN	x	x	x	x	x	x	x	x	x	x					
	Flame retardant and self-extinguishing acc. to UL/CSA	x	x	x	x	x										
	UL recognized	x	x	x	x	x										
	CSA approved	x	x	x	x	x										
	Oil resistant acc. to internal standard						x	x	x	x	x					
	Oil resistant acc. to DIN VDE	x	x	x	x	x						x	x	x	x	x
	Good chemical resistance	x	x	x	x	x						x	x	x	x	x
	Weathering resistance											x	x	x	x	x
Application A: high service life B: medium service life C: short service life	At acceleration values of up to 05 m/s²	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 20 m/s²	A	A	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 40 m/s²	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	more than 40 m/s²	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	At path feet rates of up to 1 m/s	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 3 m/s	A	A	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 10 m/s	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	more than 10 m/s	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	For cable tracks with a length of up to 5 m	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	up to 10 m	A	A	A	A	A	B	B	B	B	B	A	A	A	A	A
	up to 25 m	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	more than 25 m	A	A	A	A	A	C	C	C	C	C	A	A	A	A	A
	These pages are meant to be helpful for choosing cables, they do not contain any guaranteed characteristics. Please also see the technical data on the particular catalogue pages.															

Temperature range:

from

to

*The temperature range for flexing is mentioned on the particular catalogue page

**LABS = enamel moisturing interfering substances

also available with green-yellow insulation and gray jacket

RoHS

S 900

Continuous flex oil resistant power supply cable for small bend radius applications

Marking for S 900 07671362:

SAB BRÖCKSKES · D-VIERSEN · 07671362 16.0 mm² S 900 6 AWG AWM Style 10455 90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2

S 900 is an ultra flexible 600 V, UL recognized, CSA approved cable designed for power applications. The design incorporates the IEC 60228 class 6 super fine wire stranding which provides excellent flexibility. The specially blended PVC jacket passes the stringent VDE test 0281 part 1 and HD 21.1 oil test providing the best oil resistance available for a PVC jacket. Recommended applications are power supply cables for spindle motor, cable handling systems requiring power cable, and interconnect wire from power supply to the machine.

B 7

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	black

Outstanding features:

- **highly flexible single conductor for use in cable tracks**
- **UV resistant jacket**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/U 0.6/1 kV
Voltage:	**UL/CSA:** 600 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** -40/+70°C +5/+70°C **UL/CSA:** up to +90°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	very good - PVC TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Color of insulation: ➤ black

item no.	no. of conductors x cross section n x mm²	AWG/ MCM	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈ lbs/mft	ampere at 30°C
07671315	1 x 1.50	16 (≈ 84/34)	0.193	4.9	26	24
07671325	1 x 2.50	14 (≈ 140/34)	0.228	5.8	37	32
07671340	1 x 4.00	12 (≈ 224/34)	0.260	6.6	52	42
07671360	1 x 6.00	10 (≈ 186/32)	0.287	7.3	70	54
07671361	1 x 10.00	8 (≈ 320/32)	0.358	9.1	108	73
07671362	1 x 16.00	6 (≈ 504/32)	0.398	10.1	155	98
07671363	1 x 25.00	4 (≈ 760/32)	0.472	12.0	226	129
07671364	1 x 35.00	2 (≈ 1083/32)	0.539	13.7	305	158
07671365	1 x 50.00	1 (≈ 703/28)	0.622	15.8	425	198
07671385	1 x 54.00	1/0 (≈ 779/28)	0.642	16.3	455	213
07671386	1 x 68.00	2/0 (≈ 969/28)	0.673	17.1	530	226
07671366	1 x 70.00	2/0 (≈ 988/28)	0.681	17.3	540	245
07671387	1 x 86.00	3/0 (≈ 1218/28)	0.776	19.7	696	263
07671367	1 x 95.00	3/0 (≈ 1340/28)	0.827	21.0	770	292
07671388	1 x 108.00	4/0 (≈ 1528/28)	0.886	22.5	864	313
07671368	1 x 120.00	4/0 (≈ 1680/28)	0.898	22.8	942	344
07671389	1 x 127.00	250 MCM (≈ 1799/28)	0.917	23.3	1001	370
07671369	1 x 150.00	250 MCM (≈ 2122/28)	0.969	24.6	1158	391
07671390	1 x 152.00	300 MCM (≈ 2154/28)	0.969	24.6	1158	396
07671391	1 x 177.00	350 MCM (≈ 1443/26)	1.051	26.7	1378	430
07671370	1 x 185.00	350 MCM (≈ 1472/26)	1.051	26.7	1401	448
07671392	1 x 204.00	400 MCM (≈ 1628/26)	1.197	30.4	1620	470
07671393	1 x 232.00	450 MCM (≈ 1850/26)	1.240	31.5	1809	490
07671371	1 x 240.00	450 MCM (≈ 1910/26)	1.240	31.5	1856	528
07671394	1 x 255.00	500 MCM (≈ 2035/26)	1.252	31.8	1962	535
07671395	1 x 283.00	550 MCM (≈ 2257/26)	1.323	33.6	2284	560
07671372*	1 x 300.00	550 MCM (≈ 2388/26)	1.350	34.3	2286	608
07671396*	1 x 306.00	600 MCM (≈ 2442/26)	1.350	34.3	2329	613

***from 283 mm² only UL recognition.**

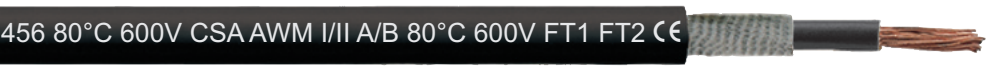
Other dimensions and colors are possible on request.

also available with green-yellow insulation and gray jacket

RoHS

S 900 P

Continuous flex oil and abrasion resistant power supply cable for small bend radius applications with TPE jacket



Marking for S 900 P 07681362:
SAB BRÖCKSKES · D-VIERSEN · 07681362 16.0 mm² S 900 P 6 AWG AWM Style 10456 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

S 900 P is an ultra flexible 600 V, UL recognized, CSA approved cable designed for power applications. The design incorporates the IEC 60228 class 6 super fine wire stranding which provides excellent flexibility. The specially blended TPE outer jacket is abrasion resistant and passes the stringent VDE test 0282 part 10 and HD 22.10 oil test. Recommended applications are power supply cables for spindle motor, cable handling systems requiring power cable, and interconnect wire from power supply to the machine in harsh environment.

B 8

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Wrapping:	non-woven tape
Jacket material:	TPE
Jacket color:	black

Outstanding features:

- **highly flexible single conductor for use in cable tracks**
- **good chemical resistance**
- **high abrasion resistance**
- **UV resistant jacket**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/U 0.6/1 kV
Voltage:	**UL/CSA:** 600 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** -40/+70°C +5/+70°C **UL/CSA:** up to +80°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL + CSA FT1 and FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

Color of insulation: ➤ **black**

item no.	no. of conductors x cross section n x mm²	AWG/ MCM	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈ lbs/mft	ampere at 30°C
07681315	1 x 1.50	16 (≈ 84/34)	0.220	5.6	30	24
07681325	1 x 2.50	14 (≈ 140/34)	0.256	6.5	42	32
07681340	1 x 4.00	12 (≈ 224/34)	0.287	7.3	58	42
07681360	1 x 6.00	10 (≈ 186/32)	0.315	8.0	77	54
07681361	1 x 10.00	8 (≈ 320/32)	0.386	9.8	116	73
07681362	1 x 16.00	6 (≈ 504/32)	0.425	10.8	165	98
07681363	1 x 25.00	4 (≈ 760/32)	0.500	12.7	237	129
07681364	1 x 35.00	2 (≈ 1083/32)	0.551	14.0	308	158
07681365	1 x 50.00	1 (≈ 703/28)	0.634	16.1	429	198
07681385	1 x 54.00	1/0 (≈ 779/28)	0.654	16.6	459	213
07681386	1 x 68.00	2/0 (≈ 969/28)	0.713	18.1	563	226
07681366	1 x 70.00	2/0 (≈ 988/28)	0.713	18.1	574	245
07681387	1 x 86.00	3/0 (≈ 1218/28)	0.787	20.0	702	263
07681367	1 x 95.00	3/0 (≈ 1340/28)	0.827	21.0	766	292
07681388	1 x 108.00	4/0 (≈ 1528/28)	0.886	22.5	859	313
07681368	1 x 120.00	4/0 (≈ 1680/28)	0.898	22.8	937	344
07681389	1 x 127.00	250 MCM (≈ 1799/28)	0.917	23.3	997	370
07681369	1 x 150.00	250 MCM (≈ 2122/28)	0.969	24.6	1153	391
07681390	1 x 152.00	300 MCM (≈ 2154/28)	0.969	24.6	1153	396
07681391	1 x 177.00	350 MCM (≈ 1443/26)	1.051	26.7	1373	430
07681370	1 x 185.00	350 MCM (≈ 1472/26)	1.051	26.7	1396	448
07681392	1 x 204.00	400 MCM (≈ 1628/26)	1.197	30.4	1612	470
07681393	1 x 232.00	450 MCM (≈ 1850/26)	1.240	31.5	1801	490
07681371	1 x 240.00	450 MCM (≈ 1910/26)	1.240	31.5	1848	528
07681394	1 x 255.00	500 MCM (≈ 2035/26)	1.252	31.8	1954	535
07681395	1 x 283.00	550 MCM (≈ 2257/26)	1.323	33.6	2275	560
07681372*	1 x 300.00	550 MCM (≈ 2388/26)	1.350	34.3	2277	608
07681396*	1 x 306.00	600 MCM (≈ 2442/26)	1.350	34.3	2319	6133

***from 283 mm² only UL recognition.**
Other dimensions and colors are possible on request.

CONTINUOUS FLEX CABLES

also available with green-yellow insulation and gray jacket

RoHS

S 910 P

Continuous flex oil resistant power supply cable for small bend radius applications with TPE insulation and jacket

Marking for S 910 P 37681362:

SAB BRÖCKSKES · D-VIERSEN · 37681362 16.0 mm² S 910 P 6 AWG AWM Style 10456 80°C 600V CSA AWM I/II A/B 80°C 1000V FT1 FT2

S 910 P is an ultra flexible 600 V, UL recognized, CSA approved cable designed for power applications. The design incorporates the IEC 60228 class 6 super fine wire stranding which provides excellent flexibility. The specially blended TPE outer jacket passes the stringent VDE test 0281 part 1 and HD 21.1 oil test providing the best oil resistance available for a TPE jacket. Recommended applications are power supply cables for spindle motor, cable handling systems requiring power cable, and interconnect wire from power supply to the machine.

B 9

Construction:

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

Outstanding features:

- **highly flexible single conductor for use in cable tracks**
- **good chemical resistance**
- **high abrasion resistance**
- **UV resistant jacket**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/U 0.6/1 kV	
Voltage:	**UL:** 600 V	**CSA:** 1000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.	
Radiation resistance:	5 x 10^7 cJ/kg	
Temperature range *static:* *flexing:*	**DIN VDE** -50/+90°C -40/+90°C	**UL/CSA:** up to +80°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL + CSA FT1 and FT2	
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10	
Chemical 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 see page O/30	

Color of insulation: ➤ **black**

item no.	no. of conductors x cross section n x mm²	AWG/ MCM	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈ lbs/mft
37681340	1 x 4.00	12 (≈ 224/34)	0.260	6.6	46
37681360	1 x 6.00	10 (≈ 186/32)	0.295	7.5	63
37681361	1 x 10.00	8 (≈ 320/32)	0.331	8.4	93
37681362	1 x 16.00	6 (≈ 504/32)	0.390	9.9	138
37681363	1 x 25.00	4 (≈ 760/32)	0.437	11.1	199
37681364	1 x 35.00	2 (≈ 1083/32)	0.496	12.6	262
37681365	1 x 50.00	1 (≈ 703/28)	0.579	14.7	372
37681366	1 x 70.00	2/0 (≈ 988/28)	0.669	17.0	308
37681367	1 x 95.00	3/0 (≈ 1340/28)	0.803	20.4	688
37681368	1 x 120.00	4/0 (≈ 1680/28)	0.906	23.0	886
37681369	1 x 150.00	250 MCM (≈ 2122/28)	1.012	25.7	1108

Other dimensions and colors are possible on request.

also available with green-yellow insulation and gray jacket

RoHS

S 910 CP

Continuous flex oil and abrasion resistant shielded power supply cable for small bend radius applications with TPE insulation and jacket

Marking for S 910 CP 37692362:
SAB BRÖCKSKES · D-VIERSEN · 37692362 16.0 mm² S 910 CP 6 AWG AWM Style 10456 80°C 600V CSA AWM I/II A/B 80°C 1000V FT1 FT2

S 910 CP is an ultra flexible 600 V, UL recognized, CSA approved cable designed for power applications. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.The design incorporates the IEC 60228 class 6 super fine wire stranding which provides excellent flexibility. The specially blended TPE jacket is abrasion resistant and passes the stringent VDE test 0282 part 10 and HD 22.10 oil test. Recommended applications are power supply cables for spindle motor, cable handling systems requiring power cable, and interconnect wire from power supply to the machine in harsh environment.

Construction:

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

Outstanding features:

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

Technical data:

Nominal voltage:	**DIN VDE:** Uo/U 0.6/1 kV
Voltage:	**UL:** 600 V **CSA:** 1000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** -50/+90°C -40/+90°C **UL/CSA:** up to +80°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL + CSA FT1 and FT2
Oil resistance:	very good - acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

Color of insulation: ➤ black

item no.	no. of conductors x cross section n x mm²	AWG/ MCM	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈ lbs/mft
37692340	1 x 4.00	12 (≈ 224/34)	0.280	7.1	56
37692360	1 x 6.00	10 (≈ 186/32)	0.315	8.0	75
37692361	1 x 10.00	8 (≈ 320/32)	0.350	8.9	106
37692362	1 x 16.00	6 (≈ 504/32)	0.406	10.3	153
37692363	1 x 25.00	4 (≈ 760/32)	0.461	11.7	225
37692364	1 x 35.00	2 (≈ 1083/32)	0.524	13.3	292
37692365	1 x 50.00	1 (≈ 703/28)	0.622	15.8	424
37692366	1 x 70.00	2/0 (≈ 988/28)	0.705	17.9	564
37692367	1 x 95.00	3/0 (≈ 1340/28)	0.902	22.9	802
37692368	1 x 120.00	4/0 (≈ 1680/28)	0.941	23.9	955
37692369	1 x 150.00	250 MCM (≈ 2122/28)	1.047	26.6	1191

Other dimensions and colors are possible on request.

also available with color code acc. to DIN 47100 and with black jacket

RoHS

SD 960 Continuous flex data cable for small bending radius

Marking for SD 960 37102625:
SAB BRÖCKSKES · D-VIERSEN · 37102501 25 x 0.14 mm² SD 960 26 AWG/25c 37102625 AWM Style 21083 80°C 300V

SD 960 is a very flexible multi-conductor 80°C, 300 V cable designed for continuous flex applications. The SD 960 is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	acc. to color code US 2 see page O/27
Stranding:	specially adjusted layering with non-woven tape over each layer
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

- **very good flexibility**
- **small bending radius**
- **reinforced outer jacket**

Technical data:

Peak operating voltage:	**DIN VDE:** max. 350 V **UL:** 300 V
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL:** up to +80°C -30/+70°C -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1
Oil resistance:	acc. to our internal standard see page O/29
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
37102602	2	0.154	3.9	11
37102603	3	0.161	4.1	14
37102604	4	0.177	4.5	16
37102605	5	0.193	4.9	20
37102607	7	0.224	5.7	28
37102610	10	0.264	6.7	33
37102614	14	0.283	7.2	42
37102618	18	0.323	8.2	56
37102625	25	0.398	10.1	78

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
37102402	2	0.165	4.2	15
37102403	3	0.177	4.5	17
37102404	4	0.189	4.8	21
37102405	5	0.209	5.3	26
37102407	7	0.248	6.3	36
37102410	10	0.287	7.3	44
37102414	14	0.319	8.1	58
37102418	18	0.354	9.0	74
37102425	25	0.433	11.0	102

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
37102202	2	0.173	4.4	17
37102203	3	0.185	4.7	20
37102204	4	0.201	5.1	24
37102205	5	0.217	5.5	30
37102207	7	0.260	6.6	41
37102210	10	0.311	7.9	53
37102214	14	0.335	8.5	69
37102218	18	0.374	9.5	87
37102225	25	0.461	11.7	120

Other dimensions and colors are possible on request.

also available with red and blue conductors and gray jacket

RoHS

S 960 Continuous flex control cable for small bending radius with black conductors

Marking for S 960 07521612: SAB BRÖCKSKES · D-VIERSEN · 07521215 12 G 1.5 mm² S 960 16 AWG/12c 07521612 AWM Style 2587 90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2 CE

S 960 is a very flexible multi-conductor 90°C, 600 V cable designed for continuous flex applications. The S 960 is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications.

B 12

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	black

Outstanding features:

- **very good flexibility**
- **small bending radius**
- **reinforced outer jacket**
- **UV resistant jacket**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/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 *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +90°C -40/+70°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	acc. to our internal standard see page O/29
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07522002	2	0.217	5.5	27
07522003	3	0.228	5.8	32
07522004	4	0.248	6.3	38
07522005	5	0.276	7.0	48
07522007	7	0.323	8.2	66
07522012	12	0.398	10.1	97
07522018	18	0.472	12.0	142
07522025	25	0.567	14.4	191
07522034	34	0.638	16.2	254
07522050	50	0.752	19.1	351
07522061	61	0.831	21.1	440
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07521902	2	0.232	5.9	32
07521903	3	0.248	6.3	38
07521904	4	0.268	6.8	46
07521905	5	0.295	7.5	57
07521907	7	0.358	9.1	82
07521912	12	0.433	11.0	119
07521918	18	0.516	13.1	175
07521925	25	0.622	15.8	238
07521934	34	0.705	17.9	319
07521950	50	0.831	21.1	450
07521961	61	0.925	23.5	558
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07521802	2	0.244	6.2	37
07521803	3	0.256	6.5	44
07521804	4	0.283	7.2	55
07521805	5	0.311	7.9	68
07521807	7	0.370	9.4	95

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07521809	9	0.445	11.3	136
07521812	12	0.453	11.5	142
07521815	15	0.515	13.1	187
07521818	18	0.539	13.7	210
07521825	25	0.650	16.5	285
07521834	34	0.736	18.7	382
07521850	50	0.886	22.5	555
07521861	61	0.965	24.5	671
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07521602	2	0.268	6.8	47
07521603	3	0.287	7.3	59
07521604	4	0.315	8.0	73
07521605	5	0.346	8.8	91
07521607	7	0.417	10.6	129
07521609	9	0.496	12.6	179
07521612	12	0.512	13.0	194
07521618	18	0.606	15.4	286
07521625	25	0.736	18.7	390
07521634	34	0.831	21.1	522
07521650	50	0.988	25.1	749
07521661	61	1.087	27.6	915
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07521402	2	0.350	8.9	79
07521403	3	0.374	9.5	97
07521404	4	0.409	10.4	120
07521405	5	0.457	11.6	150
07521407	7	0.551	14.0	214
07521412	12	0.681	17.3	323
07521418	18	0.815	20.7	480
07521425	25	0.988	25.1	654

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
07521203	3	0.445	11.3	150
07521204	4	0.488	12.4	179
07521205	5	0.543	13.8	230
07521207	7	0.657	16.7	331
► **10 AWG (≈ 186/32) • 6.00 mm²**				
07521003	3	0.516	13.1	214
07521004	4	0.571	14.5	256
07521005	5	0.638	16.2	329
07521007	7	0.764	19.4	470
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07520803	3	0.638	16.2	337
07520804	4	0.709	18.0	428
07520805	5	0.791	20.1	529
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07520603	3	0.764	19.4	507
07520604	4	0.846	21.5	641
07520605	5	0.949	24.1	798
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07520404	4	1.024	26.0	935
07520405	5	1.142	29.0	1195
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07520204	4	1.173	29.8	1284
07520205	5	1.295	32.9	1582
► **1 AWG (≈ 703/28) • 50.00 mm²**				
07520104	4	1.374	34.9	1796

Other dimensions and colors are possible on request.

also available with black and blue conductors and gray jacket

RoHS

S 960 red

Continuous flex control cable for small bending radius with red conductors

Marking for S 960 red 07751607: SAB BRÖCKSKES · D-VIERSEN ·
07750715 7 G 1.5 mm² S 960 red 16 AWG/7c 07751607 AWM Style 2587 90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2

S 960 red is a very flexible multi-conductor 90°C, 600 V cable designed for continuous flex applications. The S 960 red is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications.

B 13

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	red conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	black

Outstanding features:

- **very good flexibility**
- **small bending radius**
- **reinforced outer jacket**
- **UV resistant jacket**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/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 *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +90°C -40/+70°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	acc. to our internal standard see page O/29
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07752002	2	0.217	5.5	27
07752003	3	0.228	5.8	32
07752004	4	0.248	6.3	38
07752005	5	0.276	7.0	48
07752007	7	0.323	8.2	66
07752012	12	0.398	10.1	97
07752018	18	0.472	12.0	142
07752025	25	0.567	14.4	191
07752034	34	0.638	16.2	254
07752050	50	0.752	19.1	351
07752061	61	0.831	21.1	440
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07751902	2	0.232	5.9	32
07751903	3	0.248	6.3	38
07751904	4	0.268	6.8	46
07751905	5	0.295	7.5	57
07751907	7	0.358	9.1	82
07751912	12	0.433	11.0	119
07751918	18	0.516	13.1	175
07751925	25	0.622	15.8	238
07751934	34	0.705	17.9	319
07751950	50	0.831	21.1	450
07751961	61	0.925	23.5	558
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07751802	2	0.244	6.2	37
07751803	3	0.256	6.5	44
07751804	4	0.283	7.2	55
07751805	5	0.311	7.9	68
07751807	7	0.370	9.4	95

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07751812	12	0.453	11.5	142
07751818	18	0.539	13.7	210
07751825	25	0.650	16.5	285
07751834	34	0.736	18.7	382
07751850	50	0.886	22.5	555
07751861	61	0.965	24.5	671
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07751602	2	0.268	6.8	47
07751603	3	0.287	7.3	59
07751604	4	0.315	8.0	73
07751605	5	0.346	8.8	91
07751607	7	0.417	10.6	129
07751612	12	0.512	13.0	194
07751618	18	0.606	15.4	286
07751625	25	0.736	18.7	390
07751634	34	0.831	21.1	522
07751650	50	0.988	25.1	749
07751661	61	1.087	27.6	915
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07751402	2	0.350	8.9	79
07751403	3	0.374	9.5	97
07751404	4	0.409	10.4	120
07751405	5	0.457	11.6	150
07751407	7	0.551	14.0	214
07751412	12	0.681	17.3	323
07751418	18	0.815	20.7	480
07751425	25	0.988	25.1	654

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
07751203	3	0.445	11.3	150
07751204	4	0.488	12.4	179
07751205	5	0.543	13.8	230
07751207	7	0.657	16.7	331
► **10 AWG (≈ 186/32) • 6.00 mm²**				
07751003	3	0.516	13.1	214
07751004	4	0.571	14.5	256
07751005	5	0.638	16.2	329
07751007	7	0.764	19.4	470
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07750803	3	0.638	16.2	337
07750804	4	0.709	18.0	428
07750805	5	0.791	20.1	529
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07750603	3	0.764	19.4	507
07750604	4	0.846	21.5	641
07750605	5	0.949	24.1	798
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07750404	4	1.024	26.0	935
07750405	5	1.142	29.0	1195
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07750204	4	1.173	29.8	1284
07750205	5	1.295	32.9	1582
► **1 AWG (≈ 703/28) • 50.00 mm²**				
07750104	4	1.374	34.9	1796

Other dimensions and colors are possible on request.

also available with color code acc. to DIN 47100 and with gray jacket

RoHS

SD 960 CY

Shielded continuous flex data cable for small bending radius

Marking for SD 960 CY 07852425:
SAB BRÖCKSKES · D-VIERSEN · 07852502 25 x 0.25 mm² SD 960 CY 24 AWG/25c 07852425 AWM Style 21083 80°C 300V

SD 960 CY is a very flexible, shielded multi-conductor 80°C, 300 V cable designed for continuous flex applications. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The SD 960 CY is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications.

B
14

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	acc. to color code US 2 see page O/27
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	black

Outstanding features:

- **very good EMC characteristics**
- **very good flexibility**
- **small bending radius**
- **UV resistant jacket**

Technical data:

Peak operating voltage:	**DIN VDE:** max. 350 V **UL:** 300 V
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509 conductor/screen 1200 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL:** up to +80°C -30/+70°C -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1
Oil resistance:	acc. to our internal standard see page O/29
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07852602	2	0.177	4.5	17
07852603	3	0.185	4.7	20
07852604	4	0.205	5.2	24
07852605	5	0.220	5.6	28
07852607	7	0.252	6.4	38
07852610	10	0.295	7.5	45
07852614	14	0.335	8.5	60
07852618	18	0.366	9.3	73
07852625	25	0.433	11.0	100

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07852402	2	0.193	4.9	20
07852403	3	0.205	5.2	24
07852404	4	0.217	5.5	28
07852405	5	0.244	6.2	36
07852407	7	0.280	7.1	43
07852410	10	0.335	8.5	60
07852414	14	0.362	9.2	75
07852418	18	0.398	10.1	92
07852425	25	0.492	12.5	134

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07852202	2	0.201	5.1	22
07852203	3	0.213	5.4	26
07852204	4	0.228	5.8	31
07852205	5	0.252	6.4	40
07852207	7	0.291	7.4	49
07852210	10	0.346	8.8	69
07852214	14	0.378	9.6	86
07852218	18	0.425	10.8	114
07852225	25	0.512	13.0	153

Other dimensions and colors are possible on request.

also available with red and blue conductors and gray jacket

RoHS

S 960 CY

Shielded continuous flex control cable for small bending radius with black conductors

Marking for S 960 CY red 07541607: SAB BRÖCKSKES · D-VIERSEN ·
07540715 7 G 1.5 mm² S 960 CY 16 AWG/7c 07541607 AWM Style 2587 90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2

S 960 CY is a very flexible, shielded multi-conductor 90°C, 600 V cable designed for continuous flex applications. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The S 960 CY is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications.

B 15

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Inner jacket:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	black

Technical data:

Nominal voltage:	**DIN VDE:** Uo/U 300/500 V **UL/CSA:** 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** -40/+70°C +5/+70°C **UL/CSA:** up to +90°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	acc. to our internal standard see page O/29
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:

- **very good EMC characteristics**
- **very good flexibility**
- **small bending radius**
- **UV resistant jacket**

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07542002	2	0.311	7.9	53
07542003	3	0.323	8.2	61
07542004	4	0.343	8.7	70
07542005	5	0.370	9.4	83
07542007	7	0.421	10.7	110
07542012	12	0.516	13.1	163
07542018	18	0.594	15.1	226
07542025	25	0.697	17.7	296
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07541902	2	0.327	8.3	60
07541903	3	0.343	8.7	69
07541904	4	0.366	9.3	81
07541905	5	0.394	10.0	95
07541907	7	0.457	11.6	126
07541912	12	0.551	14.0	185
07541918	18	0.638	16.2	261
07541925	25	0.764	19.4	350
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07541802	2	0.339	8.6	66
07541803	3	0.350	8.9	75
07541804	4	0.374	9.5	88
07541805	5	0.406	10.3	105
07541807	7	0.476	12.1	144
07541812	12	0.579	14.7	222
07541818	18	0.665	16.9	305
07541825	25	0.791	20.1	405
07541836	36	0.890	22.6	574

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07541602	2	0.366	9.3	79
07541603	3	0.382	9.7	92
07541604	4	0.409	10.4	110
07541605	5	0.453	11.5	140
07541607	7	0.531	13.5	192
07541612	12	0.638	16.2	282
07541618	18	0.744	18.9	394
07541625	25	0.886	22.5	530
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07541402	2	0.449	11.4	122
07541403	3	0.472	12.0	147
07541404	4	0.516	13.1	179
07541405	5	0.571	14.5	229
07541407	7	0.622	15.8	294
07541412	12	0.803	20.4	438
07541418	18	0.933	23.7	610
07541425	25	1.110	28.2	815
► **12 AWG (≈ 224/34) • 4.00 mm²**				
07541203	3	0.539	13.7	202
07541204	4	0.575	14.6	251
07541205	5	0.630	16.0	304
07541207	7	0.760	19.3	440
► **10 AWG (≈ 186/32) • 6.00 mm²**				
07541003	3	0.638	16.2	288
07541004	4	0.685	17.4	347
07541005	5	0.760	19.3	416

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07540804	4	0.835	21.2	532
07540805	5	0.925	23.5	644
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07540604	4	0.980	24.9	734
07540605	5	1.079	27.4	902
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07540404	4	1.165	29.6	1124
07540405	5	1.291	32.8	1329
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07540204	4	1.303	33.1	1418
► **1 AWG (≈ 703/28) • 50.00 mm²**				
07540104	4	1.567	39.8	2022

Other dimensions and colors are possible on request.

also available with black and blue conductors and gray jacket

RoHS

S 960 CY red

Shielded continuous flex control cable for small bending radius with red conductors

Marking for S 960 CY red 07851607: SAB BRÖCKSKES · D-VIERSEN ·
07850715 7 G 1.5 mm² S 960 CY red 16 AWG/7c 07851607 AWM Style 2587 90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2 CE

S 960 CY red is a very flexible, shielded multi-conductor 90°C, 600 V cable designed for continuous flex applications. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The S 960 CY red is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications.

B 16

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	red conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Inner jacket:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	black

Outstanding features:

- **very good EMC characteristics**
- **very good flexibility**
- **small bending radius**
- **UV resistant jacket**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/U 300/500 V **UL/CSA:** 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** -40/+70°C +5/+70°C **UL/CSA:** up to +90°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	acc. to our internal standard see page O/29
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07852002	2	0.311	7.9	53
07852003	3	0.323	8.2	61
07852004	4	0.343	8.7	70
07852005	5	0.370	9.4	83
07852007	7	0.421	10.7	110
07852012	12	0.516	13.1	163
07852018	18	0.594	15.1	226
07852025	25	0.697	17.7	296
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07851902	2	0.327	8.3	60
07851903	3	0.343	8.7	69
07851904	4	0.366	9.3	81
07851905	5	0.394	10.0	95
07851907	7	0.457	11.6	126
07851912	12	0.551	14.0	185
07851918	18	0.638	16.2	261
07851925	25	0.764	19.4	350

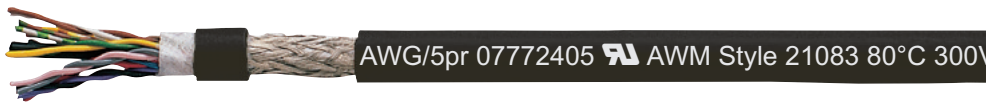
item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07851802	2	0.339	8.6	66
07851803	3	0.350	8.9	75
07851804	4	0.374	9.5	88
07851805	5	0.406	10.3	105
07851807	7	0.476	12.1	144
07851812	12	0.579	14.7	222
07851818	18	0.665	16.9	305
07851825	25	0.791	20.1	405
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07851602	2	0.366	9.3	79
07851603	3	0.382	9.7	92
07851604	4	0.409	10.4	110
07851605	5	0.453	11.5	140
07851607	7	0.531	13.5	192
07851612	12	0.638	16.2	282
07851618	18	0.744	18.9	394
07851625	25	0.886	22.5	530
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07851402	2	0.449	11.4	122
07851403	3	0.472	12.0	147
07851404	4	0.516	13.1	179
07851405	5	0.571	14.5	229
07851407	7	0.622	15.8	294
07851412	12	0.803	20.4	438
07851418	18	0.933	23.7	610
07851425	25	1.110	28.2	815

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
07851203	3	0.539	13.7	202
07851204	4	0.575	14.6	251
07851205	5	0.630	16.0	304
► **10 AWG (≈ 186/32) • 6.00 mm²**				
07851003	3	0.638	16.2	288
07851004	4	0.685	17.4	347
07851005	5	0.760	19.3	416
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07850804	4	0.835	21.2	532
07850805	5	0.925	23.5	644
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07850604	4	0.980	24.9	734
07850605	5	1.079	27.4	902
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07850404	4	1.165	29.6	1124
07850405	5	1.291	32.8	1329
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07850204	4	1.303	33.1	1418
► **1 AWG (≈ 703/28) • 50.00 mm²**				
07850104	4	1.567	39.8	2022

Other dimensions and colors are possible on request.

SD 960 CY TP

Continuous flex twisted pairs shielded data cable for small bending radius



Marking for SD 960 CY TP 07772405:
SAB BRÖCKSKES · D-VIERSEN · 07770525 5 x 2 x 0.25 mm² SD 960 CY TP 24 AWG/5pr 07772405 AWM Style 21083 80°C 300V

SD 960 CY TP is a very flexible, shielded multi-pair 80°C, 300 V cable designed for continuous flex applications. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The SD 960 CY is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems.

B 17

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	acc. to color code US 3 see page O/27
Stranding:	conductors twisted to pairs, pairs twisted in specially adjusted layering with non-woven tape over the outer layer
Screen:	tinned copper braiding
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	black

Outstanding features:

- **very good flexibility**
- **small bending radius**
- **reinforced outer jacket**
- **UV resistant jacket**

Technical data:

Peak operating voltage:	**DIN VDE:** max. 350 V **UL:** 300 V
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509 conductor/screen 1200 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL:** up to +80°C -40/+70°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1
Oil resistance:	acc. to our internal standard see page O/29
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07772602	2	0.220	5.6	26
07772603	3	0.252	6.4	35
07772604	4	0.287	7.3	44
07772605	5	0.311	7.9	52
07772607	7	0.335	8.5	67
07772610	10	0.390	9.9	79
07772614	14	0.453	11.5	101
07772618	18	0.488	12.4	127
07772625	25	0.555	14.1	155
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07772402	2	0.248	6.3	36
07772403	3	0.272	6.9	42
07772404	4	0.311	7.9	52
07772405	5	0.339	8.6	63
07772407	7	0.362	9.2	82
07772410	10	0.425	10.8	100
07772414	14	0.496	12.6	132
07772418	18	0.535	13.6	163
07772425	25	0.618	15.7	217

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07772202	2	0.260	6.6	38
07772203	3	0.283	7.2	47
07772204	4	0.327	8.3	59
07772205	5	0.354	9.0	71
07772207	7	0.382	9.7	97
07772210	10	0.449	11.4	114
07772214	14	0.524	13.3	151
07772218	18	0.575	14.6	202
07772225	25	0.654	16.6	259
► **20 AWG (≈ 28/34) • 0.25 mm²**				
07772002	2	0.291	7.4	48
07772003	3	0.339	8.6	70
07772004	4	0.386	9.8	86
07772005	5	0.425	10.8	108
07772007	7	0.461	11.7	138
07772010	10	0.555	14.1	187
07772014	14	0.657	16.7	251
07772018	18	0.705	17.9	308
07772025	25	0.795	20.2	387

Other dimensions and colors are possible on request.

also available with orange jacket

RoHS

SD 960 P

Continuous flex polyurethane data cable for small bending radius

Marking for SD 960 P 07762225: SAB BRÖCKSKES · D-VIERSEN ·
07762503 25 x 0.34 mm² SD 960 P 22 AWG/25c 07762225 AWM Style 20910 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2

SD 960 P is a very flexible multi-conductor 80°C, 300 V cable designed for continuous flex applications. The special PUR jacket passes not only the stringent VDE test 0282 part 10 and HD 22.10 oil test providing the best oil resistance, but it also provides excellent chemical and abrasion resistance. The SD 960 P is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications in harsh environments.

B 18

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	acc. to color code US 2 see page O/27
Stranding:	specially adjusted layering with non-woven tape over each layer
Jacket material:	PU acc. to UL 758 with mat surface
Jacket color:	gray

Outstanding features:

- **very good oil resistant**
- **very good chemical resistance**
- **high abrasion resistance**
- **very good flexibility**

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 *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +80°C -30/+70°C -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to UL FT1, CSA FT1 and FT2
Oil resistance:	very good - oil rating 60°C acc. to UL 758
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07762602	2	0.177	4.5	19
07762603	3	0.185	4.7	21
07762604	4	0.201	5.1	24
07762605	5	0.217	5.5	28
07762607	7	0.248	6.3	36
07762610	10	0.276	7.0	43
07762614	14	0.295	7.5	52
07762618	18	0.299	7.6	65
07762625	25	0.398	10.1	82

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07762402	2	0.189	4.8	22
07762403	3	0.201	5.1	25
07762404	4	0.213	5.4	29
07762405	5	0.232	5.9	34
07762407	7	0.268	6.8	45
07762410	10	0.299	7.6	54
07762414	14	0.323	8.2	67
07762418	18	0.366	9.3	84
07762425	25	0.449	11.4	108

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07762202	2	0.197	5.0	25
07762203	3	0.209	5.3	28
07762204	4	0.224	5.7	32
07762205	5	0.240	6.1	39
07762207	7	0.280	7.1	51
07762210	10	0.315	8.0	61
07762214	14	0.339	8.6	77
07762218	18	0.386	9.8	97
07762225	25	0.476	12.1	125

Other dimensions and colors are possible on request.

also available with blue and red conductors and orange jacket

RoHS

S 960 P

Continuous flex polyurethane control cable for small bending radius

Marking for S 960 P 07761607: SAB BRÖCKSKES · D-VIERSEN ·
07760715 7 G 1.5 mm² S 960 P 16 AWG/7c 07761607 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

S 960 P is a very flexible multi-conductor 80°C, 600 V cable designed for continuous flex applications. The special PUR jacket passes not only the stringent VDE test 0282 part 10 and HD 22.10 oil test providing the best oil resistance, but it also provides excellent chemical and abrasion resistance. The S 960 P is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications in harsh environments.

B 19

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Jacket material:	PU acc. to UL 758 with mat surface
Jacket color:	gray

Outstanding features:

- **very good oil resistant**
- **very good chemical resistance**
- **high abrasion resistance**
- **very good flexibility**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/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 *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +80°C -40/+70°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	very good - oil rating 60°C acc. to UL 758
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07762002	2	0.252	6.4	31
07762003	3	0.264	6.7	36
07762004	4	0.280	7.1	42
07762005	5	0.303	7.7	52
07762007	7	0.346	8.8	70
07762012	12	0.413	10.5	97
07762018	18	0.472	12.0	134
07762025	25	0.563	14.3	180
07762034	34	0.598	15.2	235
07762050	50	0.728	18.5	245
07762061	61	0.787	20.0	298
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07761902	2	0.268	6.8	37
07761903	3	0.280	7.1	42
07761904	4	0.299	7.6	50
07761905	5	0.323	8.2	60
07761907	7	0.374	9.5	81
07761912	12	0.445	11.3	115
07761918	18	0.516	13.1	161
07761925	25	0.622	15.8	221
07761934	34	0.689	17.5	225
07761950	50	0.787	20.0	401
07761961	61	0.925	23.5	525
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07761802	2	0.276	7.0	41
07761803	3	0.287	7.3	47
07761804	4	0.311	7.9	57
07761805	5	0.335	8.5	69
07761807	7	0.386	9.8	88

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07761812	12	0.461	11.7	136
07761818	18	0.535	13.6	200
07761825	25	0.646	16.4	263
07761834	34	0.709	18.0	350
07761850	50	0.878	22.3	527
07761861	61	0.961	24.4	648
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07761602	2	0.299	7.6	50
07761603	3	0.315	8.0	60
07761604	4	0.339	8.6	73
07761605	5	0.366	9.3	90
07761607	7	0.425	10.8	124
07761612	12	0.508	12.9	181
07761618	18	0.594	15.1	263
07761625	25	0.720	18.3	355
07761634	34	0.803	20.4	467
07761650	50	0.976	24.8	710
07761665	61	1.091	27.7	862
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07761402	2	0.362	9.2	74
07761403	3	0.382	9.7	91
07761404	4	0.413	10.5	113
07761405	5	0.453	11.5	136
07761407	7	0.531	13.5	181
07761412	12	0.654	16.6	293
07761418	18	0.783	19.9	428
07761425	25	1.000	25.4	620

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
07761203	3	0.465	11.8	139
07761204	4	0.469	11.9	165
07761205	5	0.516	13.1	200
07761207	7	0.654	16.6	278
► **10 AWG (≈ 186/32) • 6.00 mm²**				
07761003	3	0.528	13.4	203
07761004	4	0.571	14.5	247
07761005	5	0.630	16.0	307
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07760804	4	0.705	17.9	403
07760805	5	0.776	19.7	503
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07760604	4	0.823	20.9	575
07760605	5	0.953	24.2	734
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07760404	4	1.020	25.9	892
07760405	5	1.122	28.5	1089
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07760204	4	1.150	29.2	1165
07760205	5	1.272	32.3	1420
► **1 AWG (≈ 703/28) • 50.00 mm²**				
07760104	4	1.350	34.3	1659

Other dimensions and colors are possible on request.

Available with blue conductors (P/N series 3721xxxx) and red conductors (P/N series 3720xxxx).
Go to **www.sabcable.com** for more detail and specifications.

also available with color code acc. to DIN 47100 and with orange jacket

RoHS

SD 960 CP

Continuous flex shielded polyurethane data cable for small bending radius

Marking for SD 960 CP 07862625: SAB BRÖCKSKES · D-VIERSEN ·
07862501 25 x 0.14 mm² SD 960 CP 26 AWG/25c 07862625 AWM Style 20910 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2

B 20

SD 960 CP is a very flexible, shielded multi-conductor 80°C, 300 V cable designed for continuous flex applications. The special PUR jacket passes not only the stringent VDE test 0282 part 10 and HD 22.10 oil test providing the best oil resistance, but it also provides excellent chemical and abrasion resistance. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The SD 960 CP is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications in harsh environments.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	acc. to color code US 2 see page O/27
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PU acc. to UL 758 with mat surface
Jacket color:	gray

Outstanding features:

- **very good EMC characteristics**
- **high abrasion resistance**
- **very good flexibility**

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 conductor/screen 1200 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** -30/+70°C -5/+70°C **UL/CSA:** up to +80°C
Burning characteristics:	flame retardant and self-extinguishing acc. to UL FT1, CSA FT1 and FT2
Oil resistance:	very good - oil rating 60°C acc. to UL 758
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07862602	2	0.197	5.0	26
07862603	3	0.205	5.2	30
07862604	4	0.220	5.6	32
07862605	5	0.236	6.0	38
07862607	7	0.268	6.8	46
07862610	10	0.303	7.7	60
07862614	14	0.350	8.9	73
07862618	18	0.358	9.1	87
07862625	25	0.441	11.2	109
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07862402	2	0.209	5.3	32
07862403	3	0.220	5.6	34
07862404	4	0.232	5.9	38
07862405	5	0.252	6.4	44
07862407	7	0.319	8.1	62
07862410	10	0.354	9.0	74
07862414	14	0.378	9.6	89
07862418	18	0.386	9.8	106
07862425	25	0.476	12.1	136
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07862202	2	0.217	5.5	34
07862203	3	0.228	5.8	36
07862204	4	0.244	6.2	42
07862205	5	0.260	6.6	49
07862207	7	0.299	7.6	69
07862210	10	0.370	9.4	82
07862214	14	0.394	10.0	103
07862218	18	0.413	10.5	124
07862225	25	0.500	12.7	155

Other dimensions and colors are possible on request.

also available with orange jacket

RoHS

S 960 CP

Continuous flex shielded polyurethane control cable for small bending radius

Marking for S 960 CP 07861612: SAB BRÖCKSKES · D-VIERSEN ·
07861215 12 G 1.5 mm² S 960 CP 16 AWG/12c 07861612 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

S 960 CP is a very flexible, shielded multi-conductor 80°C, 600 V cable designed for continuous flex applications. The special PUR jacket passes not only the stringent VDE test 0282 part 10 and HD 22.10 oil test providing the best oil resistance, but it also provides excellent chemical and abrasion resistance. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The S 960 CP is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications in harsh environments.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Inner jacket:	special PVC
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PU acc. to UL 758 with mat surface
Jacket color:	gray

Outstanding features:

- **very good EMC characteristics**
- **high abrasion resistance**
- **very good flexibility**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/U 300/500 V **UL/CSA:** 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +80°C -40/+70°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	very good - oil rating 60°C acc. to UL 758
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07862002	2	0.331	8.4	58
07862003	3	0.343	8.7	65
07862004	4	0.358	9.1	73
07862005	5	0.382	9.7	84
07862007	7	0.425	10.8	108
07862012	12	0.508	12.9	155
07862018	18	0.575	14.6	211
07862025	25	0.665	16.9	270
07862030	30	0.665	16.9	281
07862036	36	0.709	18.0	306
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07861902	2	0.346	8.8	65
07861903	3	0.358	9.1	71
07861904	4	0.378	9.6	81
07861905	5	0.402	10.2	94
07861907	7	0.457	11.6	122
07861912	12	0.539	13.7	175
07861918	18	0.626	15.9	248
07861925	25	0.732	18.6	321
07861930	30	0.736	18.7	375
07861936	36	0.799	20.3	411
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07861802	2	0.354	9.0	70
07861803	3	0.366	9.3	77
07861804	4	0.386	9.8	89
07861805	5	0.413	10.5	104
07861807	7	0.472	12.0	138

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07861812	12	0.563	14.3	209
07861818	18	0.646	16.4	288
07861825	25	0.756	19.2	372
07861830	30	0.764	19.4	432
07861836	36	0.886	22.5	530
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07861602	2	0.378	9.6	82
07861603	3	0.390	9.9	93
07861604	4	0.417	10.6	110
07861605	5	0.453	11.5	136
07861607	7	0.520	13.2	177
07861612	12	0.622	15.8	268
07861618	18	0.705	17.9	363
07861625	25	0.886	22.5	517
07861630	30	0.894	22.7	599
07861636	36	0.969	24.6	680
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07861402	2	0.449	11.4	121
07861403	3	0.469	11.9	142
07861404	4	0.508	12.9	171
07861405	5	0.555	14.1	216
07861407	7	0.646	16.4	286
07861412	12	0.768	19.5	398
07861418	18	0.949	24.1	636
07861425	25	1.106	28.1	828

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
07861203	3	0.512	13.0	185
07861204	4	0.559	14.2	240
07861205	5	0.618	15.7	296
07861207	7	0.709	18.0	356
► **10 AWG (≈ 186/32) • 6.00 mm²**				
07861003	3	0.626	15.9	276
07861004	4	0.665	16.9	325
07861005	5	0.728	18.5	393
07861007	7	0.917	23.3	560
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07860803	3	0.760	19.3	430
07860804	4	0.795	20.2	495
07860805	5	0.925	23.5	632
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07860603	3	0.949	24.1	606
07860604	4	0.980	24.9	776
07860605	5	1.063	27.0	872
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07860404	4	1.138	28.9	1062
07860405	5	1.248	31.7	1261
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07860204	4	1.276	32.4	1365

Other dimensions and colors are possible on request.

SD 960 CP TP

Continuous flex twisted pairs shielded polyurethane data cable for small bending radius

Marking for SD 960 CP TP 07872407: SAB BRÖCKSKES · D-VIERSEN ·
07870725 7 x 2 x 0.25 mm² SD 960 CP TP 24 AWG/7pr 07872407 AWM Style 20910 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2

SD 960 CP TP is a very flexible, shielded multi-pair 80°C, 300 V cable designed for continuous flex applications. The special PUR jacket passes not only the stringent VDE test 0282 part 10 and HD 22.10 oil test providing the best oil resistance, but it also provides excellent chemical and abrasion resistance. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The SD 960 CP is designed for use on gantry robots, cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications in harsh environments.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	acc. to color code US 3 see page O/27
Stranding:	conductors twisted to pairs, pairs twisted in specially adjusted layering with non-woven tape over the outer layer
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PU acc. to UL 758 with mat surface
Jacket color:	gray

Outstanding features:

- **very good EMC characteristics**
- **very good flexibility**
- **high abrasion resistance**

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 conductor/screen 1200 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** -40/+70°C +5/+70°C **UL/CSA:** up to +80°C
Burning characteristics:	flame retardant and self-extinguishing acc. to UL FT1, CSA FT1 and FT2
Oil resistance:	very good - oil rating 60°C acc. to UL 758
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

► 26 AWG (≈ 18/38) • 0.14 mm²

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
07872602	2	0.252	6.4	40
07872603	3	0.268	6.8	52
07872604	4	0.311	7.9	60
07872605	5	0.335	8.5	71
07872607	7	0.354	9.0	86
07872610	10	0.417	10.6	100
07872614	14	0.496	12.6	125
07872618	18	0.555	14.1	153
07872625	25	0.638	16.2	184

► 24 AWG (≈ 32/38) • 0.25 mm²

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
07872402	2	0.268	6.8	53
07872403	3	0.295	7.5	60
07872404	4	0.331	8.4	73
07872405	5	0.362	9.2	83
07872407	7	0.386	9.8	107
07872410	10	0.469	11.9	122
07872414	14	0.563	14.3	159
07872418	18	0.614	15.6	192
07872425	25	0.693	17.6	250

► 22 AWG (≈ 42/38) • 0.34 mm²

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
07872202	2	0.280	7.1	56
07872203	3	0.303	7.7	67
07872204	4	0.350	8.9	80
07872205	5	0.378	9.6	97
07872207	7	0.413	10.5	119
07872210	10	0.492	12.5	138
07872214	14	0.594	15.1	179
07872218	18	0.646	16.4	218
07872225	25	0.732	18.6	288

Other dimensions and colors are possible on request.

also available with color code acc. to US 2

RoHS

SD 980 P High speed continuous flex heavy duty halogen-free TPE data cable

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

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

SD 980 P is a continuous flex multi-conductor 80°C, 300 V cable designed specifically for the most stressful ultra high speed applications requiring a very small bending radius. The unique design allows this cable to excel in applications where ordinary flexing cables fail. This halogen-free TPE outer jacketed cable with colored conductors passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Color code:	with reference to DIN 47100, see page O/26
Stranding:	specially adjusted layering with non-woven tape over each layer and one additional non-woven tape over the outer layer
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **halogen-free**
- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **travel > 10 m is possible**
- **high abrasion resistance**
- **minimal bending radius**

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 *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +80°C -50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, CSA FT1 (acc. to dimension) and FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
77742603	3	0.150	3.8	11
77742604	4	0.161	4.1	13
77742605	5	0.177	4.5	15
77742607	7	0.193	4.9	19
77742610	10	0.220	5.6	24
77742614	14	0.236	6.0	30
77742618	18	0.260	6.6	36
77742625	25	0.299	7.6	48

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
77742403	3	0.165	4.2	14
77742404	4	0.173	4.4	17
77742405	5	0.189	4.8	20
77742407	7	0.213	5.4	25
77742410	10	0.244	6.2	33
77742414	14	0.260	6.6	42
77742418	18	0.287	7.3	52
77742425	25	0.339	8.6	69

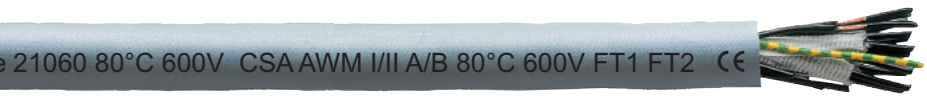
item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
77742203	3	0.173	4.4	16
77742204	4	0.185	4.7	19
77742205	5	0.205	5.2	24
77742207	7	0.228	5.8	30
77742210	10	0.260	6.6	40
77742214	14	0.280	7.1	50
77742218	18	0.307	7.8	62
77742225	25	0.362	9.2	83

Other dimensions and colors are possible on request.

also available with blue, red and white conductors

RoHS

S 980 P High speed continuous flex heavy duty halogen-free TPE control cable



Marking for S 980 P 77741807: SAB BRÖCKSKES · D-VIERSEN · 77741807 S 980 P 18 G 0.75 mm² 19 AWG/18c 77741918
AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

S 980 P is a continuous flex multi-conductor 80°C, 600 V cable designed specifically for the most stressful ultra high speed applications requiring a very small bending radius. The unique design allows this cable to excel in applications where ordinary flexing cables fail. The halogen-free TPE outer jacket cable with black numbered conductors passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion.

B 24

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer and one additional non-woven tape over the outer layer
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **halogen-free**
- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **travel > 10 m is possible**
- **high abrasion resistance**
- **minimal bending radius**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/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 *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +80°C -50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, CSA FT1, FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
77742003	3	0.260	6.6	35
77742004	4	0.280	7.1	41
77742005	5	0.307	7.8	48
77742007	7	0.350	8.9	62
77742012	12	0.413	10.5	93
77742018	18	0.476	12.1	129
77742025	25	0.563	14.3	171
► **19 AWG (≈ 42/34) • 0.75 mm²**				
77741903	3	0.280	7.1	40
77741904	4	0.299	7.6	48
77741905	5	0.331	8.4	57
77741907	7	0.378	9.6	73
77741912	12	0.441	11.2	110
77741918	18	0.524	13.3	155
77741925	25	0.618	15.7	210
► **18 AWG (≈ 56/34) • 1.00 mm²**				
77741803	3	0.287	7.3	46
77741804	4	0.311	7.9	56
77741805	5	0.339	8.6	66
77741807	7	0.394	10.0	86
77741812	12	0.461	11.7	131
77741818	18	0.539	13.7	185
77741825	25	0.642	16.3	252

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **16 AWG (≈ 84/34) • 1.50 mm²**				
77741603	3	0.315	8.0	58
77741604	4	0.350	8.9	73
77741605	5	0.370	9.4	88
77741607	7	0.429	10.9	113
77741612	12	0.512	13.0	175
77741618	18	0.563	14.3	247
77741625	25	0.720	18.3	344
► **14 AWG (≈ 140/34) • 2.50 mm²**				
77741403	3	0.366	9.3	85
77741404	4	0.394	10.0	104
77741405	5	0.437	11.1	126
77741407	7	0.504	12.8	167
77741412	12	0.618	15.7	269
77741418	18	0.732	18.6	388
77741425	25	0.925	23.5	569
► **12 AWG (≈ 224/34) • 4.00 mm²**				
77741203	3	0.413	10.5	149
77741204	4	0.453	11.5	156
77741205	5	0.496	12.6	182

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **10 AWG (≈ 186/32) • 6.00 mm²**				
77741003	3	0.480	12.2	173
77741004	4	0.524	13.3	217
77741005	5	0.575	14.6	253
► **8 AWG (≈ 320/32) • 10.00 mm²**				
77740803	3	0.622	15.8	281
77740804	4	0.685	17.4	360
77740805	5	0.768	19.5	439
► **6 AWG (≈ 504/32) • 16.00 mm²**				
77740603	3	0.732	18.6	399
77740604	4	0.811	20.6	554
77740605	5	0.965	24.5	714
► **4 AWG (≈ 760/32) • 25.00 mm²**				
77740404	4	1.024	26.0	835
77740405	5	1.138	28.9	1016
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
77740204	4	1.161	29.5	1093
77740205	5	1.291	32.8	1333
► **1 AWG (≈ 703/28) • 50.00 mm²**				
77740104	4	1.425	36.2	1566

Other dimensions and colors are possible on request.

also available with color code acc. to US 2

RoHS

SD 980 CP

High speed continuous flex shielded heavy duty halogen-free TPE data cable

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

SD 980 CP is a continuous flex shielded multi-conductor 80°C, 300 V cable designed specifically for the most stressful ultra high speed applications requiring a very small bending radius. The unique design allows this cable to excel in applications where ordinary flexing cables fail. The halogen-free TPE outer jacket cable with colored conductors passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

B 25

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Color code:	with reference to DIN 47100, see page O/26
Stranding:	specially adjusted layering with non-woven tape over each layer
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**

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 conductor/screen 1200 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +80°C -50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, CSA FT1 (acc. to dimensions), FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
77842603	3	0.165	4.2	16
77842604	4	0.177	4.5	18
77842605	5	0.193	4.9	22
77842607	7	0.209	5.3	26
77842610	10	0.236	6.0	32
77842614	14	0.252	6.4	37
77842618	18	0.276	7.0	46
77842625	25	0.315	8.0	59
► **24 AWG (≈ 32/38) • 0.25 mm²**				
77842403	3	0.181	4.6	19
77842404	4	0.189	4.8	22
77842405	5	0.205	5.2	27
77842407	7	0.228	5.8	32
77842410	10	0.260	6.6	41
77842414	14	0.276	7.0	51
77842418	18	0.307	7.8	61
77842425	25	0.354	9.0	81
► **22 AWG (≈ 42/38) • 0.34 mm²**				
77842203	3	0.189	4.8	22
77842204	4	0.201	5.1	26
77842205	5	0.220	5.6	30
77842207	7	0.244	6.2	37
77842210	10	0.276	7.0	48
77842214	14	0.295	7.5	60
77842218	18	0.323	8.2	73
77842225	25	0.378	9.6	95

Other dimensions and colors are possible on request.

S 980 CP

High speed continuous flex shielded heavy duty halogen-free TPE data cable

Marking for S 980 CP 77840715: SAB BRÖCKSKES · D-VIERSEN · 77840715 7 G 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

S 980 CP is a continuous flex shielded multi-conductor 80°C, 600 V cable designed specifically for the most stressful ultra high speed applications requiring a very small bending radius. The unique design allows this cable to excel in applications where ordinary flexing cables fail. The halogen-free TPE outer jacket cable with black numbered conductors passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Inner jacket:	special SABIX®
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **travel > 10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/U 300/500 V **UL/CSA:** 600 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +80°C -50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, CSA FT1, FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
77842003	3	0.339	8.6	58
77842004	4	0.354	9.0	66
77842005	5	0.382	9.7	75
77842007	7	0.425	10.8	92
77842012	12	0.496	12.6	137
77842018	18	0.579	14.7	192
77842025	25	0.673	17.1	255
► **19 AWG (≈ 42/34) • 0.75 mm²**				
77841903	3	0.354	9.0	65
77841904	4	0.374	9.5	74
77841905	5	0.406	10.3	85
77841907	7	0.461	11.7	116
77841912	12	0.543	13.8	171
77841918	18	0.630	16.0	238
77841925	25	0.736	18.7	306
► **18 AWG (≈ 56/34) • 1.00 mm²**				
77841803	3	0.362	9.2	71
77841804	4	0.386	9.8	82
77841805	5	0.413	10.5	95
77841807	7	0.476	12.1	129
77841812	12	0.559	14.2	201
77841818	18	0.634	16.1	269
77841825	25	0.760	19.3	350

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **16 AWG (≈ 84/34) • 1.50 mm²**				
77841603	3	0.374	9.5	80
77841604	4	0.425	10.8	102
77841605	5	0.453	11.5	127
77841607	7	0.520	13.2	168
77841612	12	0.618	15.7	258
77841618	18	0.709	18.0	346
77841625	25	0.909	23.1	521
► **14 AWG (≈ 140/34) • 2.50 mm²**				
77841403	3	0.449	11.4	123
77841404	4	0.476	12.1	146
77841405	5	0.528	13.4	175
77841407	7	0.610	15.5	248
77841412	12	0.736	18.7	376
77841418	18	0.921	23.4	566
77841425	25	1.071	27.2	725
► **12 AWG (≈ 224/34) • 4.00 mm²**				
77841203	3	0.496	12.6	167
77841204	4	0.543	13.8	205
77841205	5	0.598	15.2	251

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **10 AWG (≈ 186/32) • 6.00 mm²**				
77841003	3	0.579	14.7	235
77841004	4	0.622	15.8	294
77841005	5	0.681	17.3	334
► **8 AWG (≈ 320/32) • 10.00 mm²**				
77840803	3	0.740	18.8	372
77840804	4	0.807	20.5	458
77840805	5	0.957	24.3	607
► **6 AWG (≈ 504/32) • 16.00 mm²**				
77840603	3	0.878	22.3	528
77840604	4	0.992	25.2	703
77840605	5	1.110	28.2	845
► **4 AWG (≈ 760/32) • 25.00 mm²**				
77840404	4	1.169	29.7	1011
77840405	5	1.283	32.6	1211
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
77840204	4	1.307	33.2	1289
77840205	5	1.437	36.5	1545

Other dimensions and colors are possible on request.

also available with color code acc. to US 3

RoHS

SD 980 CP TP

High speed continuous flex twisted pairs heavy duty shielded halogen-free TPE control cable

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

SD 980 CP TP is a continuous flex shielded multi-pair 80°C, 300 V cable designed specifically for the most stressful ultra high speed applications requiring a very small bending radius. The unique design allows this cable to excel in applications where ordinary flexing cables fail. The halogen-free TPE outer jacket cable with colored conductors passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Color code:	with reference to DIN 47100, see page O/26
Stranding:	conductors twisted to pairs, pairs twisted in specially adjusted layering with non-woven tape over each layer
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**

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 conductor/screen 1200V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** **UL/CSA:** up to +80°C -50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, CSA FT1 (acc. to dimensions), FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
77892602	2	0.201	5.1	23
77892603	3	0.220	5.6	26
77892604	4	0.248	6.3	32
77892605	5	0.264	6.7	36
77892607	7	0.283	7.2	43
77892610	10	0.331	8.4	56
77892614	14	0.366	9.3	71
77892618	18	0.406	10.3	91
77892625	25	0.461	11.7	117
► **24 AWG (≈ 32/38) • 0.25 mm²**				
77892402	2	0.220	5.6	28
77892403	3	0.244	6.2	35
77892404	4	0.272	6.9	40
77892405	5	0.291	7.4	46
77892407	7	0.311	7.9	57
77892410	10	0.362	9.2	74
77892414	14	0.429	10.9	106
77892418	18	0.457	11.6	126
77892425	25	0.551	14.0	185

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
77892202	2	0.232	5.9	32
77892203	3	0.256	6.5	40
77892204	4	0.291	7.4	48
77892205	5	0.311	7.9	54
77892207	7	0.335	8.5	66
77892210	10	0.390	9.9	87
77892214	14	0.457	11.6	125
77892218	18	0.492	12.5	150
77892225	25	0.579	14.7	215
► **20 AWG (≈ 28/34) • 0.50 mm²**				
77892002	2	0.268	6.8	40
77892003	3	0.299	7.6	53
77892004	4	0.343	8.7	66
77892005	5	0.370	9.4	76
77892007	7	0.406	10.3	99
77892010	10	0.476	12.1	132
77892014	14	0.563	14.3	190
77892018	18	0.634	16.1	244
77892025	25	0.709	18.0	309

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **19 AWG (≈ 42/34) • 0.75 mm²**				
77891902	2	0.303	7.7	53
77891903	3	0.346	8.8	66
77891904	4	0.390	9.9	81
77891905	5	0.437	11.1	108
77891907	7	0.469	11.9	127
77891910	10	0.579	14.7	204
77891914	14	0.681	17.3	271
77891918	18	0.732	18.6	327
77891925	25	0.894	22.7	473

Other dimensions and colors are possible on request.

SD 86 Continuous flex data cable for moderate flexing applications

Marking for SD 86 37722502:
SAB BRÖCKSKES · D-VIERSEN · SD 86 25 x 0.25 mm²

SD 86 has been designed for use in cable tracks, automatic handling equipment and machine components in constant operation. The special cable design makes SD 86 ideally suited for a wide range of moderate flexing operations.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	with reference to DIN 47100, see page O/26
Stranding:	specially adjusted layering with non-woven tape over each layer
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1, reinforced wall thickness
Jacket color:	gray

Outstanding features:

- **very good flexibility**
- **small bending radius**
- **reinforced outer jacket**

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 *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-30/+70°C -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Oil resistance:	acc. to our internal standard see page O/29
Chemical resistance:	see page O/11
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

► **26 AWG (≈ 18/38) • 0.14 mm²**

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
37720201	2	0.122	3.1	9
37720301	3	0.130	3.3	10
37720401	4	0.138	3.5	11
37720501	5	0.150	3.8	14
37720701	7	0.173	4.4	19
37721201	12	0.213	5.4	26
37721801	18	0.252	6.4	40
37722501	25	0.307	7.8	51

► **24 AWG (≈ 32/38) • 0.25 mm²**

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
37720202	2	0.134	3.4	11
37720302	3	0.142	3.6	13
37720402	4	0.154	3.9	15
37720502	5	0.165	4.2	19
37720702	7	0.193	4.9	26
37721202	12	0.244	6.2	38
37721802	18	0.283	7.2	56
37722502	25	0.343	8.7	73

► **22 AWG (≈ 42/38) • 0.34 mm²**

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
37720203	2	0.157	4.0	15
37720303	3	0.165	4.2	17
37720403	4	0.181	4.6	21
37720503	5	0.197	5.0	26
37720703	7	0.240	6.1	38
37721203	12	0.295	7.5	54
37721803	18	0.346	8.8	80
37722503	25	0.429	10.9	108

Other dimensions and colors are possible on request.

S 86 Continuous flex cable for moderate flexing applications

Marking for S 86 37721215:
SAB BRÖCKSKES · D-VIERSEN · S 86 12 G 1.5 mm²

S 86 has been designed for use in cable tracks, automatic handling equipment and machine components in constant operation. The special cable design makes S 86 ideally suited for a wide range of moderate flexing operations.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to EN 50334;green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1, reinforced wall thickness
Jacket color:	gray

Outstanding features:

- **very good flexibility**
- **small bending radius**
- **reinforced outer jacket**

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 *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-40/+70°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2,
Oil resistance:	acc. to our internal standard see page O/29
Chemical resistance:	see page O/11
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 20 AWG (≈ 28/34) • 0.50 mm²				
37720205	2	0.209	5.3	23
37720305	3	0.220	5.6	30
37720405	4	0.244	6.2	37
37720505	5	0.268	6.8	45
37720705	7	0.315	8.0	62
37721205	12	0.390	9.9	91
37721805	18	0.457	11.6	134
37722505	25	0.559	14.2	179
37723605	36	0.626	15.9	251
37724405	44	0.717	18.2	303
37725205	52	0.744	18.9	345
37726505	65	0.846	21.5	441
► 19 AWG (≈ 42/34) • 0.75 mm²				
37720207	2	0.228	5.8	29
37720307	3	0.248	6.3	40
37720407	4	0.268	6.8	47
37720507	5	0.299	7.6	60
37720707	7	0.358	9.1	83
37721207	12	0.437	11.1	120
37721807	18	0.516	13.1	182
37722507	25	0.626	15.9	237
37723607	36	0.713	18.1	343
37724407	44	0.803	20.4	401
37725207	52	0.843	21.4	466
37726507	65	0.957	24.3	595
► 18 AWG (≈ 56/34) • 1.00 mm²				
37720210	2	0.244	6.2	36
37720310	3	0.256	6.5	45
37720410	4	0.280	7.1	55
37720510	5	0.311	7.9	69
37720710	7	0.370	9.4	97
37721210	12	0.453	11.5	142
37721810	18	0.543	13.8	218

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 18 AWG (≈ 56/34) • 1.00 mm²				
37722510	25	0.657	16.7	287
37723610	36	0.740	18.8	405
37724410	44	0.843	21.4	486
37725210	52	0.886	22.5	566
37726510	65	1.000	25.4	716
► 16 AWG (≈ 84/34) • 1.50 mm²				
37720215	2	0.268	6.8	45
37720315	3	0.283	7.2	59
37720415	4	0.315	8.0	74
37720515	5	0.343	8.7	91
37720715	7	0.417	10.6	130
37721215	12	0.512	13.0	194
37721815	18	0.610	15.5	290
37722515	25	0.740	18.8	390
37723615	36	0.839	21.3	551
37724415	44	0.953	24.2	668
37725215	52	1.000	25.4	777
37726515	65	1.130	28.7	967
► 14 AWG (≈ 140/34) • 2.50 mm²				
37720225	2	0.346	8.8	73
37720325	3	0.374	9.5	99
37720425	4	0.406	10.3	120
37720525	5	0.453	11.5	151
37720725	7	0.551	14.0	217
37721225	12	0.681	17.3	323
37721825	18	0.819	20.8	470
37722525	25	0.996	25.3	659
37722725	27	0.996	25.3	698
37723025	30	1.028	26.1	763
37723625	36	1.126	28.6	906
37724425	44	1.268	32.2	1107
37725225	52	1.319	33.5	1276
37726525	65	1.484	37.7	1589

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 12 AWG (≈ 224/34) • 4.00 mm²				
37720240	2	0.390	9.9	109
37720340	3	0.425	10.8	138
37720440	4	0.461	11.7	169
37720540	5	0.516	13.1	220
37720740	7	0.650	16.5	329
► 10 AWG (≈ 186/32) • 6.00 mm²				
37720260	2	0.484	12.3	158
37720360	3	0.512	13.0	202
37720460	4	0.567	14.4	254
37720560	5	0.634	16.1	331
37720760	7	0.768	19.5	472
► 8 AWG (≈ 320/32) • 10.00 mm²				
37720461	4	0.681	17.3	397
37720561	5	0.768	19.5	521
► 6 AWG (≈ 504/32) • 16.00 mm²				
37720462	4	0.823	20.9	602
37720562	5	0.925	23.5	786
► 4 AWG (≈ 760/32) • 25.00 mm²				
37720463	4	0.972	24.7	888
37720563	5	1.098	27.9	1159
► 2 AWG (≈ 1083/32) • 35.00 mm²				
37720464	4	1.130	28.7	1198
37720564	5	1.268	32.2	1564
► 1 AWG (≈ 703/28) • 50.00 mm²				
37720465	4	1.358	34.5	1724
37720565	5	1.524	38.7	2236

Other dimensions and colors are possible on request.

SD 86 C Shielded continuous flex data cable for moderate flexing applications

Marking for SD 86 C 37822502:
SAB BRÖCKSKES · D-VIERSEN · SD 86 C 25 x 0.25 mm² CE

SD 86 C has been designed for use in cable tracks, automatic handling equipment and machine components in constant operation. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The special cable design makes SD 86 C ideally suited for a wide range of moderate flexing operations.

B 30

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	with reference to DIN 47100, see page O/26
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

- **very good flexibility**
- **good EMC characteristics**
- **small bending radius**
- **reinforced outer jacket**

Technical data:

Peak operating voltage:	max. 350 V acc. to DIN VDE
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509 conductor/screen 1200 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-30/+70°C -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Oil resistance:	acc. to our internal standard see page O/29
Chemical resistance:	see page O/11
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
37820201	2	0.146	3.7	13
37820301	3	0.154	3.9	15
37820401	4	0.161	4.1	16
37820501	5	0.173	4.4	20
37820701	7	0.205	5.2	27
37821201	12	0.248	6.3	38
37821801	18	0.280	7.1	50
37822501	25	0.346	8.8	70

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
37820202	2	0.157	4.0	15
37820302	3	0.165	4.2	19
37820402	4	0.177	4.5	22
37820502	5	0.197	5.0	26
37820702	7	0.224	5.7	35
37821202	12	0.272	6.9	49
37821802	18	0.327	8.3	73
37822502	25	0.382	9.7	93

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
37820203	2	0.189	4.8	21
37820303	3	0.197	5.0	25
37820403	4	0.213	5.4	30
37820503	5	0.228	5.8	34
37820703	7	0.268	6.8	44
37821203	12	0.335	8.5	70
37821803	18	0.386	9.8	97
37822503	25	0.461	11.7	135

Other dimensions and colors are possible on request.

S 86 C Shielded continuous flex cable for moderate flexing applications

RoHS

CE

Marking for S 86 C 37820715:
SAB BRÖCKSKES · D-VIERSEN · S 86 C 7 G 1.5 mm² CE

S 86 C has been designed for use in cable tracks, automatic handling equipment and machine components in constant operation. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The special cable design makes S 86 C ideally suited for a wide range of moderate flexing operations.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	black conductors with consecutive numbers acc. to EN 50334;green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Inner jacket:	PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-40/+70°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Oil resistance:	acc. to our internal standard see page O/29
Chemical resistance:	see page O/11
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:

- **very good flexibility**
- **good EMC characteristics**
- **small bending radius**
- **reinforced outer jacket**

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 20 AWG (≈ 28/34) • 0.50 mm²				
37820205	2	0.307	7.8	54
37820305	3	0.319	8.1	60
37820405	4	0.335	8.5	68
37820505	5	0.366	9.3	81
37820705	7	0.406	10.3	105
37821205	12	0.504	12.8	155
37821805	18	0.591	15.0	221
37822505	25	0.681	17.3	284
► 19 AWG (≈ 42/34) • 0.75 mm²				
37820207	2	0.327	8.3	62
37820307	3	0.339	8.6	69
37820407	4	0.366	9.3	83
37820507	5	0.390	9.9	96
37820707	7	0.457	11.6	130
37821207	12	0.551	14.0	190
37821807	18	0.634	16.1	268
37822507	25	0.764	19.4	360
► 18 AWG (≈ 56/34) • 1.00 mm²				
37820210	2	0.339	8.6	68
37820310	3	0.354	9.0	79
37820410	4	0.378	9.6	91
37820510	5	0.402	10.2	106
37820710	7	0.476	12.1	167
37821210	12	0.575	14.6	225
37821810	18	0.665	16.9	312
37822510	25	0.776	19.7	409

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 16 AWG (≈ 84/34) • 1.50 mm²				
37820215	2	0.366	9.3	81
37820315	3	0.382	9.7	94
37820415	4	0.413	10.5	114
37820515	5	0.449	11.4	142
37820715	7	0.524	13.3	193
37821215	12	0.634	16.1	286
37821815	18	0.732	18.6	395
37822515	25	0.878	22.3	534
37822715	27	0.878	22.3	557
► 14 AWG (≈ 140/34) • 2.50 mm²				
37820225	2	0.445	11.3	123
37820325	3	0.472	12.0	151
37820425	4	0.512	13.0	181
37820525	5	0.567	14.4	232
37820725	7	0.657	16.7	307
37821225	12	0.795	20.2	442
37821825	18	0.929	23.6	631
37822525	25	1.110	28.2	834
► 12 AWG (≈ 224/34) • 4.00 mm²				
37820240	2	0.508	12.9	167
37820340	3	0.539	13.7	206
37820440	4	0.591	15.0	261
37820540	5	0.646	16.4	304

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 10 AWG (≈ 186/32) • 6.00 mm²				
37820260	2	0.591	15.0	230
37820360	3	0.618	15.7	285
37820460	4	0.689	17.5	343
37820560	5	0.740	18.8	411
► 8 AWG (≈ 320/32) • 10.00 mm²				
37820461	4	0.819	20.8	534
37820561	5	0.898	22.8	620
► 6 AWG (≈ 504/32) • 16.00 mm²				
37820462	4	0.953	24.2	761
37820562	5	1.063	27.0	902
► 4 AWG (≈ 760/32) • 25.00 mm²				
37820463	4	1.118	28.4	1085
37820563	5	1.244	31.6	1299
► 2 AWG (≈ 1083/32) • 35.00 mm²				
37820464	4	1.283	32.6	1424

Other dimensions and colors are possible on request.

SD 86 C TP

Continuous flex twisted pairs shielded data cable for moderate flexing applications

Marking for SD 86 C TP 37640325:
SAB BRÖCKSKES · D-VIERSEN · SD 86 C TP 3 x 2 x 0.25 mm² CE

S 86 C TP is a flexible, multi-paired cable with PVC outer jacket that provides cost-effective operation of machine tools requiring a long service life in harsh environments. The tear resistant PVC jacket is resistant to mineral oils and abrasion in cable track applications. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. Specially paired conductors ensure maximum interference suppression in analog or digital signal transmission.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	with reference to DIN 47100, see page O/26
Stranding:	conductors twisted to pairs, pairs twisted in specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Jacket material:	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

- **very good flexibility**
- **good EMC characteristics**
- **small bending radius**
- **reinforced outer jacket**

Technical data:

Peak operating voltage:	max. 350 V acc. to DIN VDE
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509 conductor/screen 1200 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	8 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-30/+70°C -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Oil resistance:	acc. to our internal standard see page O/29
Chemical resistance:	see page O/11
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
37640214	2	0.193	4.9	21
37640314	3	0.213	5.4	27
37640414	4	0.244	6.2	33
37640514	5	0.264	6.7	39
37640714	7	0.283	7.2	53
37641014	10	0.343	8.7	64
37641214	12	0.374	9.5	73
37641414	14	0.394	10.0	81
37641814	18	0.429	10.9	106
37642514	25	0.500	12.7	141

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
37640225	2	0.213	5.4	27
37640325	3	0.240	6.1	35
37640425	4	0.272	6.9	40
37640525	5	0.291	7.4	51
37640725	7	0.311	7.9	65
37641025	10	0.378	9.6	83
37641225	12	0.421	10.7	104
37641425	14	0.445	11.3	118
37641825	18	0.492	12.5	148
37642525	25	0.563	14.3	197

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
37640234	2	0.256	6.5	36
37640334	3	0.280	7.1	45
37640434	4	0.335	8.5	60
37640534	5	0.362	9.2	73
37640734	7	0.386	9.8	91
37641034	10	0.457	11.6	120
37641234	12	0.520	13.2	147
37641434	14	0.555	14.1	175
37641834	18	0.594	15.1	214
37642534	25	0.689	17.5	278

Other dimensions and colors are possible on request.

SD 200

Continuous flex halogen-free TPE data cable with extreme temperature range

Marking for SD 200 07742501:
SAB BRÖCKSKES · D-VIERSEN · SD 200 25 x 0.14 mm² CE

SD 200 is a continuous flex multi-conductor cable with a temperature range of -40°C up to +90°C designed for high speed applications in the most extreme conditions. The halogen-free TPE outer jacket passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Color code:	with reference to DIN 47100, see page O/26
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **high abrasion resistance**
- **minimal bending radius**
- **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 *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07740201	2	0.126	3.2	7
07740301	3	0.130	3.3	9
07740401	4	0.142	3.6	10
07740501	5	0.150	3.8	12
07740701	7	0.173	4.4	16
07741001	10	0.201	5.1	20
07741201	12	0.205	5.2	23
07741401	14	0.217	5.5	26
07741801	18	0.236	6.0	32
07742501	25	0.280	7.1	42
07743201	32	0.299	7.6	52

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07740202	2	0.138	3.5	10
07740302	3	0.146	3.7	12
07740402	4	0.154	3.9	14
07740502	5	0.165	4.2	17
07740702	7	0.193	4.9	23
07741002	10	0.224	5.7	29
07741202	12	0.228	5.8	33
07741402	14	0.240	6.1	38
07741802	18	0.268	6.8	48
07742502	25	0.319	8.1	63
07743202	32	0.346	8.8	81

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07740203	2	0.146	3.7	11
07740303	3	0.154	3.9	14
07740403	4	0.165	4.2	17
07740503	5	0.177	4.5	20
07740703	7	0.205	5.2	28
07741003	10	0.240	6.1	35
07741203	12	0.248	6.3	40
07741403	14	0.260	6.6	46
07741803	18	0.287	7.3	58
07742503	25	0.350	8.9	80
07743203	32	0.374	9.5	100

Other dimensions and colors are possible on request.

S 200 Continuous flex halogen-free TPE control cable with extreme temperature range

Marking for S 200 07740116:
SAB BRÖCKSKES · D-VIERSEN · S 200 1 G 10.0 mm² CE

Marking for S 200 07741215:
SAB BRÖCKSKES · D-VIERSEN · S 200 12 G 1.5 mm² CE

S 200 is a continuous flex multi-conductor cable with a temperature range of -40°C up to +90°C designed for high speed applications in the most extreme conditions. The halogen-free TPE outer jacket passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Color code from 2 conductors:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **high abrasion resistance**
- **minimal 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 *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07740205	2	0.193	4.9	18
07740305	3	0.201	5.1	23
07740405	4	0.217	5.5	28
07740505	5	0.236	6.0	34
07740705	7	0.272	6.9	45
07741205	12	0.327	8.3	66
07741805	18	0.390	9.9	97
07742505	25	0.469	11.9	132
07743605	36	0.539	13.7	188
07745005	50	0.634	16.1	255
07746505	65	0.717	18.2	331
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07740207	2	0.213	5.4	24
07740307	3	0.224	5.7	30
07740407	4	0.240	6.1	36
07740507	5	0.264	6.7	44
07740707	7	0.303	7.7	60

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07741207	12	0.378	9.6	92
07741807	18	0.445	11.3	135
07742507	25	0.547	13.9	186
07743607	36	0.606	15.4	257
07745007	50	0.724	18.4	353
07746507	65	0.819	20.8	459
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07740210	2	0.228	5.8	29
07740310	3	0.240	6.1	37
07740410	4	0.260	6.6	45
07740510	5	0.283	7.2	56
07740710	7	0.331	8.4	77
07741210	12	0.409	10.4	116
07741810	18	0.484	12.3	172
07742510	25	0.594	15.1	237
07743610	36	0.669	17.0	334
07745010	50	0.795	20.2	458
07746510	65	0.902	22.9	595

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07740115	1	0.157	4.0	17
07740215	2	0.252	6.4	37
07740315	3	0.264	6.7	49
07740415	4	0.287	7.3	61
07740515	5	0.315	8.0	75
07740715	7	0.378	9.6	106
07741215	12	0.469	11.9	163
07741815	18	0.559	14.2	245
07742515	25	0.673	17.1	331
07743615	36	0.756	19.2	467
07745015	50	0.906	23.0	642
07746515	65	1.024	26.0	834

Continued on next page

S 200 Continuous flex halogen-free TPE control cable with extreme temperature range

RoHS

CE

Marking for S 200 07740116:
SAB BRÖCKSKES · D-VIERSEN · S 200 1 x 10.0 mm²

Marking for S 200 07741215:
SAB BRÖCKSKES · D-VIERSEN · S 200 12 G 1.5 mm²

B 35

S 200 is a continuous flex multi-conductor cable with a temperature range of -40°C up to +90°C designed for high speed applications in the most extreme conditions. The halogen-free TPE outer jacket passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Color code from 2 conductors:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **high abrasion resistance**
- **minimal 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 *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07740125	1	0.181	4.6	25
07740225	2	0.315	8.0	58
07740325	3	0.335	8.5	78
07740425	4	0.370	9.4	99
07740525	5	0.409	10.4	122
07740725	7	0.488	12.4	171
07741225	12	0.622	15.8	272
07741825	18	0.732	18.6	401
07742525	25	0.894	22.7	547
07743625	36	1.004	25.5	770
► **12 AWG (≈ 224/34) • 4.00 mm²**				
07740140	1	0.213	5.4	36
07740240	2	0.366	9.3	85
07740340	3	0.386	9.8	114
07740440	4	0.425	10.8	141
07740540	5	0.476	12.1	183
07740740	7	0.575	14.6	261
► **10 AWG (≈ 186/32) • 6.00 mm²**				
07740160	1	0.240	6.1	51
07740260	2	0.425	10.8	123

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **10 AWG (≈ 186/32) • 6.00 mm²**				
07740360	3	0.461	11.7	165
07740460	4	0.504	12.8	208
07740560	5	0.571	14.5	269
07740760	7	0.681	17.3	377
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07740161	1	0.280	7.1	79
07740361	3	0.571	14.5	274
07740461	4	0.622	15.8	340
07740561	5	0.677	17.2	421
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07740162	1	0.327	8.3	119
07740362	3	0.677	17.2	406
07740462	4	0.748	19.0	524
07740562	5	0.835	21.2	657
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07740163	1	0.390	9.9	181
07740363	3	0.811	20.6	618
07740463	4	0.898	22.8	794
07740563	5	1.000	25.4	998

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07740164	1	0.453	11.5	243
07740464	4	1.039	26.4	1074
07740564	5	1.157	29.4	1351
► **1 AWG (≈ 703/28) • 50.00 mm²**				
07740165	1	0.551	14.0	357
07740465	4	1.252	31.8	1518
► **2/0 AWG (≈ 988/28) • 70.00 mm²**				
07740166	1	0.657	16.7	500
► **3/0 AWG (≈ 1340/28) • 95.00 mm²**				
07740167	1	0.807	20.5	685
► **4/0 AWG (≈ 1680/28) • 120.00 mm²**				
07740168	1	0.846	21.5	836
► **250 MCM (≈ 2122/28) • 150.00 mm²**				
07740169	1	0.969	24.6	1064
► **350 MCM (≈ 1472/26) • 185.00 mm²**				
07740170	1	1.051	26.7	1290
► **450 MCM (≈ 1910/26) • 240.00 mm²**				
07740171	1	1.185	30.1	1652

Other dimensions and colors are possible on request.

SD 200 C

Continuous flex halogen-free TPE shielded data cable with extreme temperature range

Marking for SD 200 C 07842501:
SAB BRÖCKSKES · D-VIERSEN · SD 200 C 25 x 0.14 mm²

SD 200 C is a continuous flex shielded multi-conductor cable with a temperature range of -40°C up to +90°C designed for high speed applications in the most extreme conditions. The halogen-free TPE outer jacket passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Color code:	with reference to DIN 47100, see page O/26
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **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 conductor/screen 1200 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07840201	2	0.146	3.7	13
07840301	3	0.150	3.8	14
07840401	4	0.161	4.1	16
07840501	5	0.169	4.3	18
07840701	7	0.193	4.9	24
07841201	12	0.224	5.7	32
07841801	18	0.256	6.5	43
07842501	25	0.299	7.6	55
07843201	32	0.327	8.3	69

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07840202	2	0.157	4.0	15
07840302	3	0.165	4.2	17
07840402	4	0.173	4.4	22
07840502	5	0.185	4.7	24
07840702	7	0.213	5.4	32
07841002	10	0.244	6.2	38
07841202	12	0.252	6.4	44
07841802	18	0.287	7.3	59
07842502	25	0.346	8.8	79
07843202	32	0.366	9.3	95

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07840203	2	0.165	4.2	17
07840303	3	0.173	4.4	21
07840403	4	0.185	4.7	24
07840503	5	0.197	5.0	28
07840703	7	0.224	5.7	36
07841203	12	0.264	6.7	50
07841803	18	0.307	7.8	71
07842503	25	0.370	9.4	95
07843203	32	0.402	10.2	122

Other dimensions and colors are possible on request.

S 200 C

Continuous flex halogen-free TPE shielded control cable with extreme temperature range

RoHS

CE

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 G 1.5 mm² CE

S 200 C is a continuous flex shielded multi-conductor cable with a temperature range of -40°C up to +90°C designed for high speed applications in the most extreme conditions. The halogen-free TPE outer jacket passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

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

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07840205	2	0.268	6.8	34
07840305	3	0.276	7.0	39
07840405	4	0.291	7.4	45
07840505	5	0.311	7.9	52
07840705	7	0.354	9.0	68
07841205	12	0.417	10.6	101
07841805	18	0.480	12.2	136
07842505	25	0.583	14.8	201
07843605	36	0.646	16.4	255
07845205	52	0.756	19.2	352
07846505	65	0.854	21.7	435

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07840207	2	0.287	7.3	40
07840307	3	0.299	7.6	47
07840407	4	0.315	8.0	55
07840507	5	0.346	8.8	66
07840707	7	0.386	9.8	83
07841207	12	0.469	11.9	129
07841807	18	0.559	14.2	198
07842507	25	0.654	16.6	259
07843607	36	0.736	18.7	349
07845207	52	0.862	21.9	485
07846507	65	0.965	24.5	583

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07840210	2	0.303	7.7	46
07840310	3	0.315	8.0	55
07840410	4	0.335	8.5	65
07840510	5	0.366	9.3	77
07840710	7	0.421	10.7	107
07841210	12	0.504	12.8	161
07841810	18	0.598	15.2	237
07842510	25	0.724	18.4	323
07843610	36	0.799	20.3	425
07845210	52	0.937	23.8	594
07846510	65	1.055	26.8	726

Continued on next page

S 200 C

Continuous flex halogen-free TPE shielded control cable with extreme temperature range

Marking for S 200 C 07840161:
SAB BRÖCKSKES · D-VIERSEN · S 200 C 1 x 10.0 mm²

Marking for S 200 C 07840515:
SAB BRÖCKSKES · D-VIERSEN · S 200 C 5 G 1.5 mm²

B
38

S 200 C is a continuous flex shielded multi-conductor cable with a temperature range of -40°C up to +90°C designed for high speed applications in the most extreme conditions. The halogen-free TPE outer jacket passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

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

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07840115	1	0.181	4.6	24
07840215	2	0.327	8.3	55
07840315	3	0.346	8.8	70
07840415	4	0.370	9.4	84
07840515	5	0.398	10.1	97
07840715	7	0.469	11.9	138
07841215	12	0.579	14.7	229
07841815	18	0.665	16.9	313
07842515	25	0.803	20.4	425
07843615	36	0.906	23.0	575
07845215	52	1.059	26.9	710
07846515	65	1.177	29.9	974

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07840125	1	0.209	5.3	33
07840225	2	0.390	9.9	82
07840325	3	0.417	10.6	107
07840425	4	0.453	11.5	132
07840525	5	0.496	12.6	159
07840725	7	0.591	15.0	225
07841225	12	0.728	18.5	353
07841825	18	0.858	21.8	497
07842525	25	1.024	26.0	675
07843625	36	1.130	28.7	901
07845225	52	1.299	33.0	1221

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
07840140	1	0.236	6.0	46
07840240	2	0.469	11.9	120
07840340	3	0.476	12.1	151
07840440	4	0.539	13.7	193
07840540	5	0.591	15.0	240
07840740	7	0.709	18.0	327
► **10 AWG (≈ 183/32) • 6.00 mm²**				
07840160	1	0.260	6.6	60
07840260	2	0.539	13.7	169
07840360	3	0.575	14.6	224
07840460	4	0.626	15.9	278
07840560	5	0.677	17.2	326
07840760	7	0.811	20.6	413

Continued on next page

S 200 C

Continuous flex halogen-free TPE shielded control cable with extreme temperature range

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 G 1.5 mm² CE

S 200 C is a continuous flex shielded multi-conductor cable with a temperature range of -40°C up to +90°C designed for high speed applications in the most extreme conditions. The halogen-free TPE outer jacket passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

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

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07840161	1	0.303	7.7	91
07840361	3	0.685	17.4	337
07840461	4	0.736	18.7	419
07840561	5	0.807	20.5	491
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07840162	1	0.358	9.1	138
07840362	3	0.815	20.7	487
07840462	4	0.886	22.5	615
07840562	5	0.972	24.7	740

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07840163	1	0.421	10.7	206
07840363	3	0.941	23.9	704
07840463	4	1.016	25.8	882
07840563	5	1.146	29.1	1082
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07840164	1	0.492	12.5	274
07840464	4	1.185	30.1	1186
07840564	5	1.303	33.1	1424
► **1 AWG (≈ 703/28) • 50.00 mm²**				
07840165	1	0.587	14.9	404
07840465	4	1.398	35.5	1661

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **2/0 AWG (≈ 988/28) • 70.00 mm²**				
07840166	1	0.697	17.7	555
► **3/0 AWG (≈ 1340/28) • 95.00 mm²**				
07840167	1	0.846	21.5	754
► **4/0 AWG (≈ 1680/28) • 120.00 mm²**				
07840168	1	0.894	22.7	911
► **250 MCM (≈ 2122/28) • 150.00 mm²**				
07840169	1	1.031	26.2	1151
► **350 MCM (≈ 1472/26) • 185.00 mm²**				
07840170	1	1.098	27.9	1384
► **450 MCM (≈ 1910/26) • 240.00 mm²**				
07840171	1	1.232	31.3	1759

Other dimensions and colors are possible on request.

SD 200 C TP

Continuous flex halogen-free twisted pairs shielded TPE data cable with extreme temperature range

Marking for SD 200 C TP 07890325:
SAB BRÖCKSKES · D-VIERSEN · SD 200 C TP 3 x 2 x 0.25 mm²

SD 200 C TP is a continuous flex shielded multi-pair cable with a temperature range of -40°C up to +90°C designed for high speed applications even in the most extreme conditions. The halogen-free TPE outer jacket passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Color code:	with reference to DIN 47100, see page O/26
Stranding:	conductors 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
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **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 conductor/screen 1200 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical 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 see page O/30

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07890214	2	0.181	4.6	19
07890314	3	0.201	5.1	22
07890414	4	0.228	5.8	26
07890514	5	0.244	6.2	31
07890614	6	0.252	6.4	36
07890714	7	0.264	6.7	40
07891014	10	0.311	7.9	48
07891414	14	0.354	9.0	65
07891814	18	0.394	10.0	87
07892514	25	0.461	11.7	114
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07890225	2	0.201	5.1	24
07890325	3	0.224	5.7	30
07890425	4	0.252	6.4	35
07890525	5	0.272	6.9	41
07890625	6	0.280	7.1	46
07890725	7	0.291	7.4	55
07891025	10	0.350	8.9	68
07891425	14	0.429	10.9	103
07891825	18	0.457	11.6	127
07892525	25	0.543	13.8	176

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07890234	2	0.213	5.4	27
07890334	3	0.236	6.0	35
07890434	4	0.272	6.9	42
07890534	5	0.291	7.4	49
07890734	7	0.315	8.0	63
07891034	10	0.378	9.6	81
07891434	14	0.457	11.6	122
07891834	18	0.492	12.5	150
07892534	25	0.579	14.7	210
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07890250	2	0.248	6.3	35
07890350	3	0.272	6.9	46
07890450	4	0.311	7.9	57
07890550	5	0.346	8.8	69
07890750	7	0.370	9.4	91
07891050	10	0.445	11.3	127
07891450	14	0.531	13.5	172
07891850	18	0.579	14.7	225
07892550	25	0.669	17.0	293

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07890275	2	0.283	7.2	46
07890375	3	0.311	7.9	57
07890475	4	0.350	8.9	73
07890575	5	0.425	10.8	107
07890775	7	0.457	11.6	143
07891075	10	0.531	13.5	179
07891475	14	0.634	16.1	250
07891875	18	0.681	17.3	311
07892575	25	0.791	20.1	407

Other dimensions and colors are possible on request.