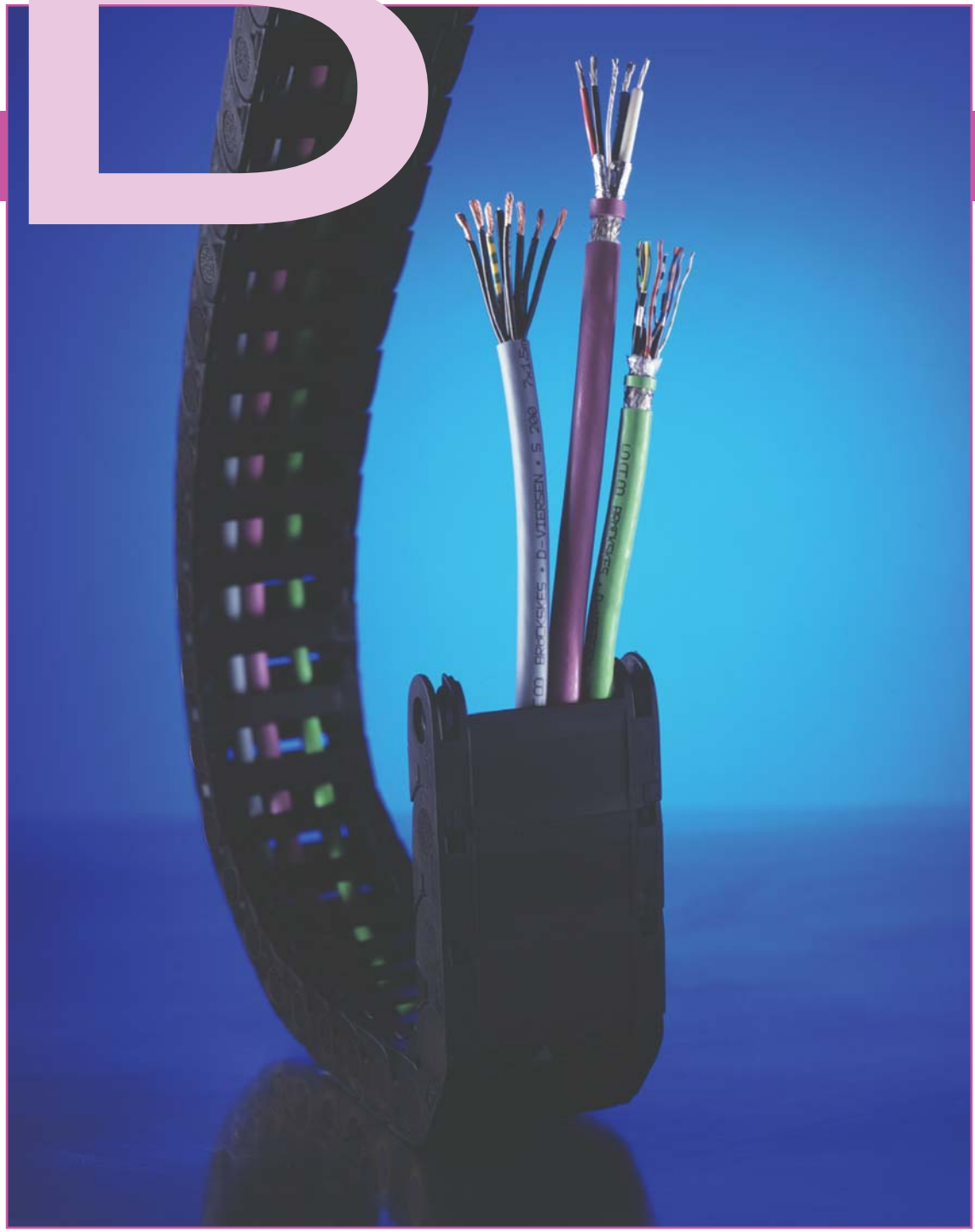
B

Continuous Flex **Cables**



Chapter B

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Chapter B

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 970 HP. With UL recognition, CSA and VDE 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 particularly 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, blue, red** **SD 960 CY/S 960 CY** **SD 960 CY TP, SD 965/S 965** **S 956 MTW/S 965 MTW CY**	Wood working and packaging machines, assembly lines, automation plants, also for the American market

■ Application of PUR cable track cables

SAB PUR cable track cables are particularly for continuously flexible 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 sheath guarantees higher service life and high efficiency.

Exemplary applications:

SD 90/S 90 **SD 90 C/S 90 C** **SD 90 C TP**	Handling, material handling and automation technologies, wood working and packaging machines, welding machine and cutting systemes
SD 200/S 200 **SD 200 C/S 200 C** **SD 200 C TP**	Handling, 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, blue, red** **SD 960 CP/S 960 CP** **SD 960 CP TP**	Handling, 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**	Handling, material handling and automation technologies, wood working and packaging machines, industrial robot construction, car manufacturing industry, high rack construction

Applications

■ Application of halogen-free SABIX® Ultra - continuously flexible with highest fire protection

Fire protection, halogen-free, flexibility and oil resistance are the characteristics united by our new product range S Ultra. Due to the new sheath material the cable can be used for flexible applications and shows the highest fire protection features by the standards EN 60332-1-2, EN 60332-3 Cat C or D, IEC 60754-1, IEC 60754-2, EN 61034, NF C 32-070 C1, NF X 70-100.

Exemplary applications:

SABIX® SD 705 FRNC C1	as festoon cable for polar cranes in nuclear power plants, in rail technology
SABIX® SD 715 C FRNC C1	as sensor cable at the vehicle chassis,
SABIX® SD 745 C FRNC C1 TP	cable chain applications with moderate mechanical stress
SABIX® S 710 FRNC C1	as festoon cable for polar cranes in nuclear power plants, in rail technology
SABIX® S 712 C FRNC C1	as sensor cable at the vehicle chassis or as flexible control cable at the train doors, cable chain applications with moderate mechanical stress

SABIX® cables can be fully recycled and in separate components newly supplied to the resource cycle. Cables with FRNC outer sheath avoid flame propagation in case of local flaming and are flame retardant and self-extinguishing acc. to VDE, EN and IEC. They fulfil the smoke density acc. to IEC, EN, VDE and BS.

Selection index

	Cable type	S 900	S 900 P	S 910 P	S 910 CP	SD 960	S 960 / blue / red	SD 960 CY	S 960 CY	SD 960 CY TP	SD 960 P	S 960 P / blue / red	SD 960 CP	S 960 CP	SD 960 CP TP	S 965 MTW	S 965 MTW CY
Application	Data cables					x		x		x	x		x		x		
	Control cables	x	x	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		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																
	+ 75 °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		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/(UL): 600 V															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 ICE																
	Flame retardant and self-extinguishing acc. to IEC + EN	x	x	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	x	x
	(UL) listed															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	x	x
	Fuel-Oil acc. to CSA																
	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	A	A
	up to 20 m/s²	B	A	A	A	B	B	B	B	B	A	A	A	A	A	B	B
	up to 40 m/s²	B	B	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	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	A	A
	up to 3 m/s	B	A	A	A	B	B	B	B	B	A	A	A	A	A	B	B
	up to 10 m/s	B	B	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	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	A	A
	up to 10 m	B	A	A	A	B	B	B	B	B	A	A	A	A	A	B	B
	up to 25 m	C	B	B	B	C	C	C	C	C	B	B	B	B	B	C	C
	more than 25 m	C	B	B	B	C	C	C	C	C	B	B	B	B	B	C	C
	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 90	S 90	SD 90 C	S 90 C	SD 90 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	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	x		x		x	x		x		x
	Screened			x	x	x			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					x
Temperature range static*	+ 90 °C																				
	+ 80 °C																				
	+ 75 °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	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			x		x	
	Nominal voltage Uo/U: 0,6/1 kV																				
	Voltage UL/CSA: 600 V		x		x																
	Voltage UL/(UL): 600 V																				
	Voltage: UL 600 V / CSA 1000 V																				
	Testing voltage: 1500 V	x		x		x	x		x		x	x		x		x	x		x		x
	Testing voltage: 2000 V																	x		x	
	Testing voltage: 3000 V		x		x			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	x	x	x	x	x
	Zero halogen acc. to DIN VDE and ICE	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															
	(UL) listed																				
	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	x	x	x	x	x
	Fuel-Oil acc. to CSA																				
	Good chemical resistance	x	x	x	x	x						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	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	A	A	A	A	A
	up to 40 m/s²	A	A	A	A	A	C	C	C	C	C	B	B	B	B	B	A	A	A	A	A
	more than 40 m/s²	A	A	A	A	A	C	C	C	C	C	B	B	B	B	B	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	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	A	A	A	A	A
	up to 10 m/s	A	A	A	A	A	C	C	C	C	C	B	B	B	B	B	A	A	A	A	A
	more than 10 m/s	A	A	A	A	A	C	C	C	C	C	B	B	B	B	B	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	A	A	A	A	A
	up to 10 m	A	A	A	A	A	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A
	up to 25 m	A	A	A	A	A	C	C	C	C	C	B	B	B	B	B	A	A	A	A	A
	more than 25 m	A	A	A	A	A	C	C	C	C	C	B	B	B	B	B	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

Selection index

SABIX® Ultra - continuously flexible with highest fire protection

SABIX® Ultra – Fire protection has never been so flexible	Cable type	SABIX® SD 705 FRNC C1	SABIX® S 710 FRNC C1	SABIX® SD 715 C FRNC C1	SABIX® S 712 C FRNC C1	SABIX® SD 745 C FRNC C1 TP
Application	Data cables	x		x		x
	Control cables		x		x	
	Screened			x	x	x
	Twisted pairs					x
Temperature range static*	+ 90 °C					
	– 50 °C					
Voltage	Peak operating voltage < 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V	x		x		x
	Nominal voltage 0,6/1 kV		x		x	
Characteristics, standards and approvals	Halogen-free acc. to DIN VDE 0472 part 815 + IEC 60754-1	x	x	x	x	x
	No flame propagation acc. to IEC 60332 + EN 60332 Cat C or D	x	x	x	x	x
	Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1	x	x	x	x	x
	Corrosiveness of conflagration gases acc. to IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2	x	x	x	x	x
	Smoke density acc. to IEC 61034 + EN 61034	x	x	x	x	x
	Toxicity acc. to NF X 70-100	x	x	x	x	x
	Oil and fuel resistance acc. to EN 50264-1	x	x	x	x	x

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

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 07670601 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.

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:	PVC, TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
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 N/28

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

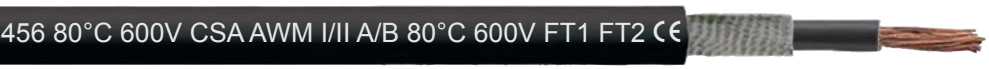
from 283 mm² only UL recognition.
Other dimensions and colors are possible on request.

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



Marking for S 900 P 07681362:
SAB BRÖCKSKES · D-VIERSEN · 07681362 16,0 mm² S 900 P 6 AWG 07680601 AWM Style 10456 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

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
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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 outer jacket
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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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	613

Other dimensions and colors are possible on request.

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

Marking for S 910 P 37681362:

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

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 PUR 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
11

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Wrapping:	non-woven tape
Jacket material:	TPE outer jacket
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	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Continuous flexibility:	very good	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28	

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

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

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 PUR 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
12

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 - PUR TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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 Very flexible continuous flex data cable for small bending radius

Marking for SD 960 31702625:
SAB BRÖCKSKES · D-VIERSEN · 31702501 25 x 0,14 mm² SD 960 26 AWG/25c 31702625 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 N/25
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:

- **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 N/27
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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 blue and red conductors and gray jacket

Ford approved

RoHS

S 960

Very flexible continuous flex control cable for small bending radius with black conductors

Marking for S 960 07521612: SAB BRÖCKSKES · D-VIERSEN ·
07521215 12 x 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
14

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:

- **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** -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 N/27
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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**				
07521812	12	0.453	11.5	142
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
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.

Ford approved

also available with black and red conductors and gray jacket

RoHS

S 960 blue

Very flexible continuous flex control cable for small bending radius with blue conductors

Marking for S 960 blue 07511612: SAB BRÖCKSKES · D-VIERSEN ·
07511215 12 x 1,5 mm² S 960 blue 16 AWG/12c 07511612 AWM Style 2587 90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2

S 960 blue is a very flexible multi-conductor 90°C, 600 V cable designed for continuous flex applications. The S 960 blue 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:	blue 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:

- **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** -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 N/27
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07512002	2	0.217	5.5	27
07512003	3	0.228	5.8	32
07512004	4	0.248	6.3	38
07512005	5	0.276	7.0	48
07512007	7	0.323	8.2	66
07512012	12	0.398	10.1	97
07512018	18	0.472	12.0	142
07512025	25	0.567	14.4	191
07512034	34	0.638	16.2	254
07512050	50	0.752	19.1	351
07512061	61	0.831	21.1	440
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07511902	2	0.232	5.9	32
07511903	3	0.248	6.3	38
07511904	4	0.268	6.8	46
07511905	5	0.295	7.5	57
07511907	7	0.358	9.1	82
07511912	12	0.433	11.0	119
07511918	18	0.516	13.1	175
07511925	25	0.622	15.8	238
07511934	34	0.705	17.9	319
07511950	50	0.831	21.1	450
07511961	61	0.925	23.5	558
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07511802	2	0.244	6.2	37
07511803	3	0.256	6.5	44
07511804	4	0.283	7.2	55
07511805	5	0.311	7.9	68
07511807	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**				
07511812	12	0.453	11.5	142
07511818	18	0.539	13.7	210
07511825	25	0.650	16.5	285
07511834	34	0.736	18.7	382
07511850	50	0.886	22.5	555
07511861	61	0.965	24.5	671
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07511602	2	0.268	6.8	47
07511603	3	0.287	7.3	59
07511604	4	0.315	8.0	73
07511605	5	0.346	8.8	91
07511607	7	0.417	10.6	129
07511612	12	0.512	13.0	194
07511618	18	0.606	15.4	286
07511625	25	0.736	18.7	390
07511634	34	0.831	21.1	522
07511650	50	0.988	25.1	749
07511661	61	1.087	27.6	915
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07511402	2	0.350	8.9	79
07511403	3	0.374	9.5	97
07511404	4	0.409	10.4	120
07511405	5	0.457	11.6	150
07511407	7	0.551	14.0	214
07511412	12	0.681	17.3	323
07511418	18	0.815	20.7	480
07511425	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**				
07511203	3	0.445	11.3	150
07511204	4	0.488	12.4	179
07511205	5	0.543	13.8	230
07511207	7	0.657	16.7	331
► **10 AWG (≈ 186/32) • 6.00 mm²**				
07511003	3	0.516	13.1	214
07511004	4	0.571	14.5	256
07511005	5	0.638	16.2	329
07511007	7	0.764	19.4	470
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07510803	3	0.638	16.2	337
07510804	4	0.709	18.0	428
07510805	5	0.791	20.1	529
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07510603	3	0.764	19.4	507
07510604	4	0.846	21.5	641
07510605	5	0.949	24.1	798
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07510404	4	1.024	26.0	935
07510405	5	1.142	29.0	1195
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07510204	4	1.173	29.8	1284
07510205	5	1.295	32.9	1582
► **1 AWG (≈ 703/28) • 50.00 mm²**				
07510104	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

Very flexible continuous flex control cable for small bending radius with red conductors

Marking for S 960 red 07751607: SAB BRÖCKSKES · D-VIERSEN ·
07750715 7 x 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 CE

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.

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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:

- **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** -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 N/27
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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

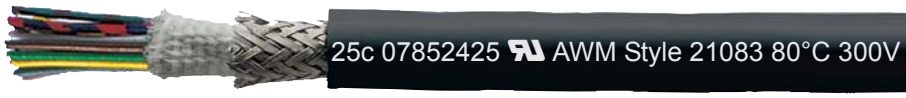
Other dimensions and colors are possible on request.

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

RoHS

SD 960 CY

Very flexible 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.

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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 N/25
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 N/27
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	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 incl. ground	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 incl. ground	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 black and blue conductors and gray jacket

RoHS

S 960 CY

Very flexible shielded continuous flex control cable for small bending radius

Marking for S 960 CY 07851607: SAB BRÖCKSKES · D-VIERSEN ·
07850715 7 x 1,5 mm² S 960 CY 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 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.

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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

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** **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 N/27
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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**				
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
► **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

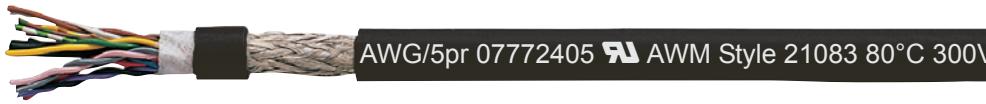
item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07851602	2	0.366	9.3	79
07851603	3	0.382	9.7	92
07851604	4	0.409	10.4	110
07851605	5	0.453	11.5	140
07851607	7	0.531	13.5	192
07851612	12	0.638	16.2	282
07851618	18	0.744	18.9	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

Very flexible shielded twisted pairs continuous flex 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-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.

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 N/25
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:

- **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 N/27
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **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

Other dimensions and colors are possible on request.

also available with orange jacket

RoHS

SD 960 P

Very flexible 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 specially 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.

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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 N/25
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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07762602	2	0.197	4,5	19
07762603	3	0.205	4,7	21
07762604	4	0.217	5,1	24
07762605	5	0.232	5,5	28
07762607	7	0.264	6,3	36
07762610	10	0.299	7.0	43
07762614	14	0.319	7,5	52
07762618	18	0.350	7,6	65
07762625	25	0.409	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	0.209	4,8	22
07762403	3	0.217	5.1	25
07762404	4	0.232	5.4	29
07762405	5	0.248	5.9	34
07762407	7	0.283	6,8	45
07762410	10	0.323	7,6	54
07762414	14	0.346	8,2	67
07762418	18	0.382	9.3	84
07762425	25	0.445	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	0.217	5.0	25
07762203	3	0.224	5.9	28
07762204	4	0.240	5,7	32
07762205	5	0.260	6.1	39
07762207	7	0.295	7.1	51
07762210	10	0.339	8.0	61
07762214	14	0.362	8,6	77
07762218	18	0.402	9,8	97
07762225	25	0.469	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

Very flexible continuous flex polyurethane control cable for small bending radius with black conductors

Marking for S 960 P 07761607: SAB BRÖCKSKES · D-VIERSEN ·
07760715 7 x 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 specially 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
21

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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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

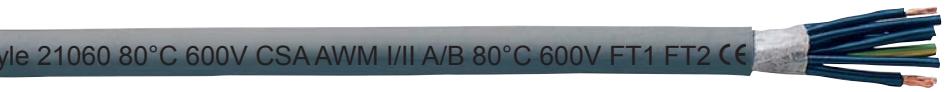
Other dimensions and colors are possible on request.

also available with black and red conductors and orange jacket

RoHS

S 960 P blue

Very flexible continuous flex polyurethane control cable for small bending radius with blue conductors



Marking for S 960 P blue 37211607: SAB BRÖCKSKES · D-VIERSEN ·
37210715 7 x 1,5 mm² S 960 P blue 16 AWG/7c 37211607 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

S 960 P blue is a very flexible multi-conductor 80°C, 600 V cable designed for continuous flex applications. The specially 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 blue 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
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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:	blue 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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
37212002	2	0.252	6.4	31
37212003	3	0.264	6.7	36
37212004	4	0.280	7.1	42
37212005	5	0.303	7.7	52
37212007	7	0.346	8.8	70
37212012	12	0.413	10.5	97
37212018	18	0.472	12.0	134
37212025	25	0.563	14.3	180
37212034	34	0.598	15.2	235
37212050	50	0.728	18.5	245
37212061	61	0.787	20.0	298
► **19 AWG (≈ 42/34) • 0.75 mm²**				
37211902	2	0.268	6.8	37
37211903	3	0.280	7.1	42
37211904	4	0.299	7.6	50
37211905	5	0.323	8.2	60
37211907	7	0.374	9.5	81
37211912	12	0.445	11.3	115
37211918	18	0.516	13.1	161
37211925	25	0.622	15.8	221
37211934	34	0.689	17.5	225
37211950	50	0.787	20.0	401
37211961	61	0.925	23.5	525
► **18 AWG (≈ 56/34) • 1.00 mm²**				
37211802	2	0.276	7.0	41
37211803	3	0.287	7.3	47
37211804	4	0.311	7.9	57
37211805	5	0.335	8.5	69
37211807	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**				
37211812	12	0.461	11.7	136
37211818	18	0.535	13.6	200
37211825	25	0.646	16.4	263
37211834	34	0.709	18.0	350
37211850	50	0.878	22.3	527
37211861	61	0.961	24.4	648
► **16 AWG (≈ 84/34) • 1.50 mm²**				
37211602	2	0.299	7.6	50
37211603	3	0.315	8.0	60
37211604	4	0.339	8.6	73
37211605	5	0.366	9.3	90
37211607	7	0.425	10.8	124
37211612	12	0.508	12.9	181
37211618	18	0.594	15.1	263
37211625	25	0.720	18.3	355
37211634	34	0.803	20.4	467
37211650	50	0.976	24.8	710
37211665	61	1.091	27.7	862
► **14 AWG (≈ 140/34) • 2.50 mm²**				
37211402	2	0.362	9.2	74
37211403	3	0.382	9.7	91
37211404	4	0.413	10.5	113
37211405	5	0.453	11.5	136
37211407	7	0.531	13.5	181
37211412	12	0.654	16.6	293
37211418	18	0.783	19.9	428
37211425	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**				
37211203	3	0.465	11.8	139
37211204	4	0.469	11.9	165
37211205	5	0.516	13.1	200
37211207	7	0.654	16.6	278
► **10 AWG (≈ 186/32) • 6.00 mm²**				
37211003	3	0.528	13.4	203
37211004	4	0.571	14.5	247
37211005	5	0.630	16.0	307
► **8 AWG (≈ 320/32) • 10.00 mm²**				
37210804	4	0.705	17.9	403
37210805	5	0.776	19.7	503
► **6 AWG (≈ 504/32) • 16.00 mm²**				
37210604	4	0.823	20.9	575
37210605	5	0.953	24.2	734
► **4 AWG (≈ 760/32) • 25.00 mm²**				
37210404	4	1.020	25.9	892
37210405	5	1.122	28.5	1089
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
37210204	4	1.150	29.2	1165
37210205	5	1.272	32.3	1420
► **1 AWG (≈ 703/28) • 50.00 mm²**				
37210104	4	1.350	34.3	1659

Other dimensions and colors are possible on request.

also available with black and blue conductors and orange jacket

RoHS

S 960 P red

Very flexible continuous flex polyurethane control cable for small bending radius with red conductors

Marking for S 960 P red 37201607: SAB BRÖCKSKES · D-VIERSEN ·
37200715 7 x 1,5 mm² S 960 P red 16 AWG/7c 37201607 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

S 960 P red is a very flexible multi-conductor 80°C, 600 V cable designed for continuous flex applications. The specially 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 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 in harsh environments.

B 23

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:	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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
37202002	2	0.252	6.4	31
37202003	3	0.264	6.7	36
37202004	4	0.280	7.1	42
37202005	5	0.303	7.7	52
37202007	7	0.346	8.8	70
37202012	12	0.413	10.5	97
37202018	18	0.472	12.0	134
37202025	25	0.563	14.3	180
37202034	34	0.598	15.2	235
37202050	50	0.728	18.5	245
37202061	61	0.787	20.0	298
► **19 AWG (≈ 42/34) • 0.75 mm²**				
37201902	2	0.268	6.8	37
37201903	3	0.280	7.1	42
37201904	4	0.299	7.6	50
37201905	5	0.323	8.2	60
37201907	7	0.374	9.5	81
37201912	12	0.445	11.3	115
37201918	18	0.516	13.1	161
37201925	25	0.622	15.8	221
37201934	34	0.689	17.5	225
37201950	50	0.787	20.0	401
37201961	61	0.925	23.5	525
► **18 AWG (≈ 56/34) • 1.00 mm²**				
37201802	2	0.276	7.0	41
37201803	3	0.287	7.3	47
37201804	4	0.311	7.9	57
37201805	5	0.335	8.5	69
37201807	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**				
37201812	12	0.461	11.7	136
37201818	18	0.535	13.6	200
37201825	25	0.646	16.4	263
37201834	34	0.709	18.0	350
37201850	50	0.878	22.3	527
37201861	61	0.961	24.4	648
► **16 AWG (≈ 84/34) • 1.50 mm²**				
37201602	2	0.299	7.6	50
37201603	3	0.315	8.0	60
37201604	4	0.339	8.6	73
37201605	5	0.366	9.3	90
37201607	7	0.425	10.8	124
37201612	12	0.508	12.9	181
37201618	18	0.594	15.1	263
37201625	25	0.720	18.3	355
37201634	34	0.803	20.4	467
37201650	50	0.976	24.8	710
37201665	61	1.091	27.7	862
► **14 AWG (≈ 140/34) • 2.50 mm²**				
37201402	2	0.362	9.2	74
37201403	3	0.382	9.7	91
37201404	4	0.413	10.5	113
37201405	5	0.453	11.5	136
37201407	7	0.531	13.5	181
37201412	12	0.654	16.6	293
37201418	18	0.783	19.9	428
37201425	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**				
37201203	3	0.465	11.8	139
37201204	4	0.469	11.9	165
37201205	5	0.516	13.1	200
37201207	7	0.654	16.6	278
► **10 AWG (≈ 186/32) • 6.00 mm²**				
37201003	3	0.528	13.4	203
37201004	4	0.571	14.5	247
37201005	5	0.630	16.0	307
► **8 AWG (≈ 320/32) • 10.00 mm²**				
37200804	4	0.705	17.9	403
37200805	5	0.776	19.7	503
► **6 AWG (≈ 504/32) • 16.00 mm²**				
37200604	4	0.823	20.9	575
37200605	5	0.953	24.2	734
► **4 AWG (≈ 760/32) • 25.00 mm²**				
37200404	4	1.020	25.9	892
37200405	5	1.122	28.5	1089
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
37200204	4	1.150	29.2	1165
37200205	5	1.272	32.3	1420
► **1 AWG (≈ 703/28) • 50.00 mm²**				
37200104	4	1.350	34.3	1659

Other dimensions and colors are possible on request.

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

RoHS

SD 960 CP

Very flexible continuous flex 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 CE

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 an 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.

B
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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 N/25
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** **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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07862602	2	0.220	5,0	26
07862603	3	0.228	5.2	30
07862604	4	0.240	5,6	32
07862605	5	0.256	6,0	38
07862607	7	0.287	6,8	46
07862610	10	0.331	7,7	60
07862614	14	0.350	8.9	73
07862618	18	0.382	9.1	87
07862625	25	0.441	11.2	109

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07862402	2	0.228	5.3	32
07862403	3	0.240	5,6	34
07862404	4	0.256	5,9	38
07862405	5	0.272	6,4	44
07862407	7	0.315	8,1	62
07862410	10	0.354	9.0	74
07862414	14	0.378	9.6	89
07862418	18	0.413	9,8	106
07862425	25	0.476	12.1	136

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07862202	2	0.240	5,5	34
07862203	3	0.248	5,8	36
07862204	4	0.264	6.2	42
07862205	5	0.283	6,6	49
07862207	7	0.327	7,6	69
07862210	10	0.370	9.4	82
07862214	14	0.394	10.0	103
07862218	18	0.433	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

Very flexible continuous flex polyurethane control cable for small bending radius

Marking for S 960 CP 07861612: SAB BRÖCKSKES · D-VIERSEN ·
07861215 12 x 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 an 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** -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 VW-1, CSA FT1 and FT2
Oil resistance:	very good - oil rating 60°C acc. to UL 758
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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

Very flexible continuous flex polyurethane shielded twisted pairs 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-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 an 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.

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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 N/25
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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07872602	2	0.272	6.4	40
07872603	3	0.303	6,8	52
07872604	4	0.339	7,9	60
07872605	5	0.362	8,5	71
07872607	7	0.386	9.0	86
07872610	10	0.437	10,6	100
07872614	14	0.504	12.6	125
07872618	18	0.539	14,1	153
07872625	25	0.606	16,2	184
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07872402	2	0.299	6,8	53
07872403	3	0.323	7,5	60
07872404	4	0.362	8,4	73
07872405	5	0.390	9.2	83
07872407	7	0.413	4,8	107
07872410	10	0.472	11,9	122
07872414	14	0.547	14,3	159
07872418	18	0.587	15,6	192
07872425	25	0.669	17.6	250
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07872202	2	0.311	7.1	56
07872203	3	0.335	7,7	67
07872204	4	0.378	8,9	80
07872205	5	0.406	9,6	97
07872207	7	0.433	10,5	119
07872210	10	0.496	12.5	138
07872214	14	0.575	15,1	179
07872218	18	0.618	16,4	218
07872225	25	0.705	18,6	288

Other dimensions and colors are possible on request.

NFPA 79 for Industrial Machinery

RoHS

S 965 MTW Type MTW

Very flexible continuous flex control cable and machine-tool cable for small bending radius with red conductors

Marking for S 965 MTW 37270715:

SAB SAB BRÖCKSKES · D-VIERSEN · 37270715 7x1,5mm² S 965 MTW 16 AWG/7c 37271607 (UL) Type MTW 600V AWM Style 2587 90°C 600V CE

S 965 MTW is a very flexible multi-conductor 90°C, 600 V cable designed for continuous flex applications. Also machine-tool cable for use as specified in the National Electrical Code (NFPA 70) and in the National Fire Protection Association Electrical Standard for Industrial Machinery (NFPA 79). The S 965 MTW is designed for use on cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	special formulated PVC
Color code:	red conductors with consecutive numbers; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Jacket material:	special oil resistant PVC
Jacket color:	black

Outstanding features:

- **very good flexibility**
- **reinforced outer jacket**
- **oil resistant**
- **NFPA 79 for Industrial Machinery**
- **UV resistant jacket**

Technical data:

Nominal voltage:	**DIN VDE:** Uo/U 300/500 V **UL/(UL):** 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/(UL):** 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
Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
37272002	2	0.307	7.8	46
37272003	3	0.319	8.1	54
37272004	4	0.346	8.8	65
37272005	5	0.378	9.6	76
37272007	7	0.437	11.1	108
37272012	12	0.555	14.1	162
37272018	18	0.642	16.3	226
37272025	25	0.780	19.8	304
37272034	34	0.894	22.7	418
37272050	50	1.051	26.7	576
37272061	61	1.157	29.4	707
► **19 AWG (≈ 42/34) • 0.75 mm²**				
37271902	2	0.323	8.2	52
37271903	3	0.339	8.6	61
37271904	4	0.366	9.3	73
37271905	5	0.398	10.1	89
37271907	7	0.465	11.8	122
37271912	12	0.587	14.9	183
37271918	18	0.681	17.3	258
37271925	25	0.835	21.2	354
37271934	34	0.949	24.1	477
37271950	50	1.126	28.6	670
37271961	61	1.240	31.5	822
► **18 AWG (≈ 56/34) • 1.00 mm²**				
37271802	2	0.331	8.4	56
37271803	3	0.346	8.8	67
37271804	4	0.374	9.5	81
37271805	5	0.409	10.4	99
37271807	7	0.480	12.2	138

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **18 AWG (≈ 56/34) • 1.00 mm²**				
37271812	12	0.606	15.4	207
37271818	18	0.709	18.0	298
37271825	25	0.878	22.3	419
37271834	34	0.976	24.8	542
37271850	50	1.165	29.6	772
37271861	61	1.283	32.6	946
► **16 AWG (≈ 84/34) • 1.50 mm²**				
37271602	2	0.354	9.0	67
37271603	3	0.370	9.4	82
37271604	4	0.402	10.2	99
37271605	5	0.441	11.2	122
37271607	7	0.528	13.4	177
37271612	12	0.654	16.6	259
37271618	18	0.776	19.7	382
37271625	25	0.953	24.2	526
37271634	34	1.071	27.2	698
37271650	50	1.280	32.5	999
37271661	61	1.409	35.8	1223
► **14 AWG (≈ 140/34) • 2.50 mm²**				
37271402	2	0.402	10.2	89
37271403	3	0.421	10.7	112
37271404	4	0.461	11.7	137
37271405	5	0.508	12.9	171
37271407	7	0.622	15.8	254
37271412	12	0.768	19.5	375
37271418	18	0.921	23.4	563
37271425	25	1.118	28.4	761

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
37271203	3	0.476	12.1	153
37271204	4	0.516	13.1	188
37271205	5	0.594	15.1	247
37271207	7	0.705	17.9	353
► **10 AWG (≈ 186/32) • 6.00 mm²**				
37271003	3	0.563	14.3	215
37271004	4	0.610	15.5	266
37271005	5	0.673	17.1	331
37271007	7	0.815	20.7	485
► **8 AWG (≈ 320/32) • 10.00 mm²**				
37270803	3	0.709	18.0	334
37270804	4	0.783	19.9	431
37270805	5	0.890	22.6	564
► **6 AWG (≈ 504/32) • 16.00 mm²**				
37270603	3	0.913	23.2	533
37270604	4	1.004	25.5	681
37270605	5	1.122	28.5	876
► **4 AWG (≈ 760/32) • 25.00 mm²**				
37270404	4	1.134	28.8	934
37270405	5	1.272	32.3	1203
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
37270204	4	1.295	32.9	1263
37270205	5	1.453	36.9	1624
► **1 AWG (≈ 703/28) • 50.00 mm²**				
37270104	4	1.654	42.0	1905

Other dimensions and colors are possible on request.

NFPA 79 for Industrial Machinery

also available with black conductors and gray jacket

RoHS

S 965 MTW CY

Type MTW — **Very flexible shielded continuous flex control cable and machine-tool cable for small bending radius with red conductors**

Marking for S 965 MTW CY 37281207:
SAB SAB BRÖCKSKES · D-VIERSEN · 37280715 7x1,5mm² S 965 MTW CY 16 AWG/7c 37281607 (UL) Type MTW 600V AWM Style 2587 90°C 600V CE

S 965 MTW CY is a very flexible, shielded multi-conductor 90°C, 600 V cable designed for continuous flex applications. Also machine-tool cable for use as specified in the National Electrical Code (NFPA 70) and in the National Fire Protection Association Electrical Standard for Industrial Machinery (NFPA 79). An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The S 965 MTW CY is designed for use on cable tracks, pick and place units, automated handling equipment, machine tools, conveyor systems and other continuous flexing applications.

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Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	special formulated PVC
Color code:	red conductors with consecutive numbers; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Inner jacket:	special formulated PVC
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	special oil resistant PVC
Jacket color:	black

Technical data:

Nominal voltage:	**DIN VDE:** Uo/U 300/500 V **UL/(UL):** 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** **UL/(UL):** 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
Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

Outstanding features:

- **very good EMC characteristics**
- **very good flexibility**
- **oil resistant**
- **NFPA 79 for Industrial Machinery**
- **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**				
37282002	2	0.390	9.9	82
37282003	3	0.409	10.4	100
37282004	4	0.437	11.1	113
37282005	5	0.472	12.0	133
37282007	7	0.563	14.3	187
37282012	12	0.661	16.8	254
37282018	18	0.772	19.6	349
37282025	25	0.921	23.4	462
► **19 AWG (≈ 42/34) • 0.75 mm²**				
37281902	2	0.413	10.5	98
37281903	3	0.429	10.9	109
37281904	4	0.457	11.6	125
37281905	5	0.500	12.7	152
37281907	7	0.591	15.0	208
37281912	12	0.701	17.8	289
37281918	18	0.819	20.8	399
37281925	25	0.921	23.4	517
► **18 AWG (≈ 56/34) • 1.00 mm²**				
37281802	2	0.421	10.7	103
37281803	3	0.445	11.3	116
37281804	4	0.465	11.8	134
37281805	5	0.512	13.0	163

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **18 AWG (≈ 56/34) • 1.00 mm²**				
37281807	7	0.602	15.3	222
37281812	12	0.720	18.3	314
37281818	18	0.839	21.3	437
37281825	25	1.004	25.5	582
► **16 AWG (≈ 84/34) • 1.50 mm²**				
37281602	2	0.445	11.3	116
37281603	3	0.461	11.7	134
37281604	4	0.504	12.8	163
37281605	5	0.567	14.4	203
37281607	7	0.650	16.5	278
37281612	12	0.783	19.9	384
37281618	18	0.917	23.3	540
37281625	25	1.087	27.6	708
► **14 AWG (≈ 140/34) • 2.50 mm²**				
37281402	2	0.504	12.8	153
37281403	3	0.531	13.5	181
37281404	4	0.587	14.9	220
37281405	5	0.630	16.0	260
37281407	7	0.744	18.9	369
37281412	12	0.909	23.1	532
37281418	18	1.055	26.8	741
37281425	25	1.272	32.3	1000

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
37281203	3	0.598	15.2	237
37281204	4	0.646	16.4	292
37281205	5	0.709	18.0	353
► **10 AWG (≈ 186/32) • 6.00 mm²**				
37281003	3	0.669	17.0	308
37281004	4	0.724	18.4	374
37281005	5	0.803	20.4	464
► **8 AWG (≈ 320/32) • 10.00 mm²**				
37280804	4	0.925	23.5	587
37280805	5	1.016	25.8	728
► **6 AWG (≈ 504/32) • 16.00 mm²**				
37280604	4	1.142	29.0	880
37280605	5	1.276	32.4	1116
► **4 AWG (≈ 760/32) • 25.00 mm²**				
37280404	4	1.287	32.7	1173
37280405	5	1.417	36.0	1462
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
37280204	4	1.457	37.0	1546
► **1 AWG (≈ 703/28) • 50.00 mm²**				
37280104	4	1.823	46.3	2267

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 outer jacket 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. 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.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Color code:	with reference to DIN 47100
Stranding:	specially adjusted layering with netting tape over each layer and one additional non-woven tape over the outer layer
Jacket material:	TPE outer jacket
Jacket color:	gray

Outstanding features:

- **halogen-free**
- **labs uncritical**
  (labs = enamel moisturing interfering substances)
- **flexible at low temperatures**
- **travel > 10 m is possible**
- **high abrasion resistance**
- **min. 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 + EN 60332-1-2, UL VW-1, CSA FT1 (acc. to dimension) and FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

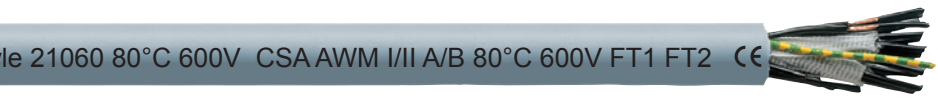
item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
77742603	3	0.150	3.8	11
77742604	4	0.161	4.1	13
77742605	5	0.177	4.5	15
77742607	7	0.193	4.9	19
77742610	10	0.220	5.6	24
77742614	14	0.236	6.0	30
77742618	18	0.260	6.6	36
77742625	25	0.299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



Marking for S 980 P 77741807: SAB BRÖCKSKES · D-VIERSEN · 77741807 S 980 P 18 x 0,75 mm² 19 AWG/18c 77741918
AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

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.

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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 netting tape over each layer and one additional non-woven tape over the outer layer
Jacket material:	TPE outer jacket
Jacket color:	gray

Outstanding features:

- **halogen-free**
- **labs uncritical**
  (labs = enamel moisturing interfering substances)
- **flexible at low temperatures**
- **travel > 10 m is possible**
- **high abrasion resistance**
- **min. 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 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
77742034	34	0.638	16.2	227
77742050	50	0.740	18.8	319
77742061	61	0.827	21.0	392

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **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
77741934	34	0.697	17.7	272
77741950	50	0.815	20.7	389
77741961	61	0.945	24.0	505

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **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
77741834	34	0.724	18.4	331
77741850	50	0.902	22.9	511
77741861	61	0.984	25.0	608

Continued on next page

also available with blue, red and white conductors

RoHS

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

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

Marking for S 980 P 77741807: SAB BRÖCKSKES · D-VIERSEN · 77741807 S 980 P 18 x 0,75 mm² 19 AWG/18c 77741918
AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

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.

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 netting tape over each layer and one additional non-woven tape over the outer layer
Jacket material:	TPE outer jacket
Jacket color:	gray

Outstanding features:

- **halogen-free**
- **labs uncritical**
  (labs = enamel moisturing interfering substances)
- **flexible at low temperatures**
- **travel > 10 m is possible**
- **high abrasion resistance**
- **min. 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 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
77741634	34	0.811	20.6	457
77741650	50	0.996	25.3	689
77741661	61	1.091	27.7	825

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **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 outer jacket 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.

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Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Color code:	with reference to DIN 47100
Stranding:	specially adjusted layering with netting tape over each layer
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TPE outer jacket
Jacket color:	gray

Outstanding features:

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

Technical data:

Peak operating voltage:	**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 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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.

also available with blue, red and white conductors

RoHS

S 980 CP

High speed continuous flex shielded heavy duty halogen free TPE outer jacket control cable

Marking for S 980 CP 77840715: SAB BRÖCKSKES · D-VIERSEN · 77840715 7 x 1,5 mm² S 980 CP 16 AWG/7c 77841607
AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

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 netting tape over each layer
Inner jacket:	special SABIX®
Wrapping:	netting tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TPE outer jacket
Jacket color:	gray

Outstanding features:

- **labs uncritical**
  (labs = enamel moisturing interfering substances)
- **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 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
77842030	30	0.709	18.0	292
77842036	36	0.756	19.2	335

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **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
77841930	30	0.748	19.0	351
77841936	36	0.803	20.4	403

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **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
77841830	30	0.776	19.7	405
77841836	36	0.898	22.8	521

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also available with blue, red and white conductors

RoHS

S 980 CP

High speed continuous flex shielded heavy duty halogen free TPE outer jacket control cable

Marking for S 980 CP 77840715: SAB BRÖCKSKES · D-VIERSEN · 77840715 7 x 1,5 mm² S 980 CP 16 AWG/7c 77841607
AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

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.

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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 netting tape over each layer
Inner jacket:	special SABIX®
Wrapping:	netting tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TPE outer jacket
Jacket color:	gray

Outstanding features:

- **labs uncritical**
  (labs = enamel moisturing interfering substances)
- **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 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
77841630	30	0.925	23.5	581
77841636	36	0.980	24.9	675
► **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
► **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

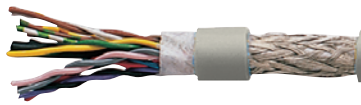
Other dimensions and colors are possible on request.

also available with color code acc. to US 3

RoHS

SD 980 CP TP

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



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

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-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.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Color code:	with reference to DIN 47100
Stranding:	conductors twisted to pairs, pairs twisted in specially adjusted layering with netting tape over each layer
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TPE outer jacket
Jacket color:	gray

Outstanding features:

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

Technical data:

Peak operating voltage:	**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 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
► **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

Other dimensions and colors are possible on request.

SD 86 Continuous flex cable track 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
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 N/27
Chem. resistance:	see page N/9
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
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

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
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

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
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 x 1,5 mm² CE

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 N/27
Chem. resistance:	see page N/9
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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 cable track 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.

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
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 N/27
Chem. resistance:	see page N/9
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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

Marking for S 86 C 37820715:
SAB BRÖCKSKES · D-VIERSEN · S 86 C 7 x 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 N/27
Chem. resistance:	see page N/9
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
37823005	30	0.705	17.9	317
37823605	36	0.768	19.5	376
► **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
37823007	30	0.783	19.9	404
37823607	36	0.843	21.4	395
► **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
37822710	27	0.787	20.0	429
37823010	30	0.819	20.8	465
37823610	36	0.878	22.3	548

Continued on next page

S 86 C Shielded continuous flex cable for moderate flexing applications

Marking for S 86 C 37820715:
SAB BRÖCKSKES · D-VIERSEN · S 86 C 7 x 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 N/27
Chem. resistance:	see page N/9
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
► 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
37823015	30	0.902	22.9	598
37823615	36	0.976	24.8	715
► 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
37823025	30	1.142	29.0	948
37823625	36	1.244	31.6	1126
► 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
37820740	7	0.752	19.1	398
► 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
37820760	7	0.874	22.2	543
► 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

Shielded twisted pairs continuous flex cable track data cable for moderate flexing applications

RoHS

CE

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
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 N/27
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
► **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
► **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 90 Continuous flex polyurethane cable track data cable

Marking for SD 90 07782502:
SAB BRÖCKSKES · D-VIERSEN · SD 90 25 x 0,25 mm² CE

SD 90 is a continuous flex cable with a polyurethane outer jacket that provides cost effective operation of machine tools requiring long service life in harsh environments. The polyurethane outer jacket provides excellent resistance to abrasion and mineral oils in continuous flex applications. Passes the stringent VDE test 0282 part 10 and HD 22.10 oil test.

B
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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
Stranding:	specially adjusted layering with non-woven tape over each layer
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:

- **oil resistant**
- **improved abrasion resistance**
- **high tear resistance**
- **good chemical resistance**
- **increased efficiency**

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:*	-30/+70 °C -5/+70 °C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07780201	2	0.130	3.3	8
07780301	3	0.138	3.5	9
07780401	4	0.146	3.7	11
07780501	5	0.157	4.0	13
07780701	7	0.181	4.6	18
07781201	12	0.217	5.5	26
07781801	18	0.248	6.3	36
07782501	25	0.295	7.5	47

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07780202	2	0.138	3.5	10
07780302	3	0.150	3.8	13
07780402	4	0.161	4.1	15
07780502	5	0.173	4.4	19
07780702	7	0.201	5.1	26
07781202	12	0.240	6.1	36
07781802	18	0.280	7.1	52
07782502	25	0.339	8.6	71

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07780203	2	0.165	4.2	14
07780303	3	0.173	4.4	17
07780403	4	0.189	4.8	21
07780503	5	0.205	5.2	26
07780703	7	0.240	6.1	35
07781203	12	0.287	7.3	50
07781803	18	0.346	8.8	75
07782503	25	0.409	10.4	99

Other dimensions and colors are possible on request.

S 90 Continuous flex polyurethane cable

Marking for S 90 07780715:
SAB BRÖCKSKES · D-VIERSEN · S 90 7 x 1,5 mm² CE

S 90 is a continuous flex cable with a polyurethane outer jacket that provides cost effective operation of machine tools requiring long service life in harsh environments. The polyurethane outer jacket provides excellent resistance to abrasion and mineral oils in continuous flex applications. Passes the stringent VDE test 0282 part 10 and HD 22.10 oil test.

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:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **oil resistant**
- **improved abrasion resistance**
- **high tear resistance**
- **good chemical resistance**
- **increased efficiency**

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:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-40/+70 °C +5/+70 °C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

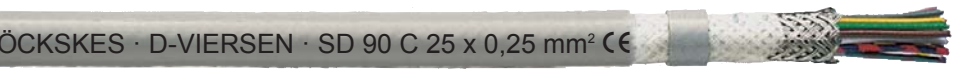
item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07780205	2	0.209	5.3	22
07780305	3	0.220	5.6	27
07780405	4	0.236	6.0	32
07780505	5	0.256	6.5	39
07780705	7	0.299	7.6	54
07781205	12	0.374	9.5	77
07781805	18	0.437	11.1	118
07782505	25	0.520	13.2	155
07783605	36	0.579	14.7	214
07785005	50	0.709	18.0	304
07786505	65	0.795	20.2	392
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07780207	2	0.228	5.8	27
07780307	3	0.240	6.1	34
07780407	4	0.260	6.6	41
07780507	5	0.283	7.2	51
07780707	7	0.335	8.5	71
07781207	12	0.417	10.6	108
07781807	18	0.488	12.4	157
07782507	25	0.579	14.7	205
07783607	36	0.665	16.9	296
07785007	50	0.791	20.1	405
07786507	65	0.890	22.6	523
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07780210	2	0.236	6.0	31
07780310	3	0.248	6.3	40
07780410	4	0.272	6.9	49
07780510	5	0.295	7.5	60
07780710	7	0.346	8.8	85

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07781210	12	0.433	11.0	128
07781810	18	0.504	12.8	185
07782510	25	0.618	15.7	257
07783610	36	0.709	18.0	368
07785010	50	0.827	21.0	492
07786510	65	0.933	23.7	647
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07780215	2	0.260	6.6	39
07780315	3	0.276	7.0	52
07780415	4	0.299	7.6	65
07780515	5	0.327	8.3	81
07780715	7	0.402	10.2	118
07781215	12	0.484	12.3	174
07781815	18	0.567	14.4	255
07782515	25	0.709	18.0	358
07783615	36	0.791	20.1	501
07785015	50	0.941	23.9	686
07786515	65	1.055	26.8	888
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07780225	2	0.331	8.4	62
07780325	3	0.350	8.9	84
07780425	4	0.398	10.1	110
07780525	5	0.437	11.1	135
07780725	7	0.520	13.2	192
07781225	12	0.646	16.4	290
07781825	18	0.776	19.7	437
07782525	25	0.941	23.9	591
07783625	36	1.071	27.2	843

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
07780240	2	0.402	10.2	97
07780340	3	0.425	10.8	128
07780440	4	0.457	11.6	160
07780540	5	0.508	12.9	205
07780740	7	0.598	15.2	286
07781240	12	0.744	18.9	442
► **10 AWG (≈ 186/32) • 6.00 mm²**				
07780260	2	0.492	12.5	146
07780360	3	0.520	13.2	192
07780460	4	0.567	14.4	245
07780560	5	0.626	15.9	310
07780760	7	0.736	18.7	431
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07780361	3	0.626	15.9	280
07780461	4	0.681	17.3	383
07780561	5	0.752	19.1	487
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07780362	3	0.732	18.6	446
07780462	4	0.799	20.3	571
07780562	5	0.882	22.4	726
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07780463	4	0.949	24.1	838
07780563	5	1.051	26.7	1076
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07780464	4	1.083	27.5	1119
07780564	5	1.197	30.4	1438
► **1 AWG (≈ 703/28) • 50.00 mm²**				
07780465	4	1.280	32.5	1582

Other dimensions and colors are possible on request.

SD 90 C Continuous flex shielded polyurethane cable track data cable



Marking for SD 90 C 07882502:
SAB BRÖCKSKES · D-VIERSEN · SD 90 C 25 x 0,25 mm²

SD 90 C is a continuous flex cable with a polyurethane outer jacket that provides cost effective operation of machine tools requiring long service life in harsh environments. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The polyurethane outer jacket provides excellent resistance to abrasion and mineral oils in continuous flex applications. Passes the stringent VDE test 0282 part 10 and HD 22.10 oil test.

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
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:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **very good EMC characteristics**
- **improved abrasion resistance**
- **high tear resistance**
- **good chemical resistance**
- **increased efficiency**

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:*	-30/+70 °C -5/+70 °C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07880201	2	0.154	3.9	13
07880301	3	0.161	4.1	15
07880401	4	0.169	4.3	17
07880501	5	0.181	4.6	21
07880701	7	0.205	5.2	26
07881201	12	0.240	6.1	35
07881801	18	0.272	6.9	47
07882501	25	0.319	8.1	60
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07880202	2	0.165	4.2	17
07880302	3	0.173	4.4	19
07880402	4	0.185	4.7	22
07880502	5	0.197	5.0	26
07880702	7	0.224	5.7	34
07881202	12	0.264	6.7	46
07881802	18	0.303	7.7	65
07882502	25	0.362	9.2	86
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07880203	2	0.189	4.8	22
07880303	3	0.197	5.0	24
07880403	4	0.213	5.4	28
07880503	5	0.228	5.8	34
07880703	7	0.264	6.7	46
07881203	12	0.311	7.9	62
07881803	18	0.370	9.4	91
07882503	25	0.457	11.6	131

Other dimensions and colors are possible on request.

S 90 C Continuous flex shielded polyurethane cable

Marking for S 90 C 07880515:
SAB BRÖCKSKES · D-VIERSEN · S 90 C 5 x 1,5 mm²

S 90 C is a continuous flex cable with a polyurethane outer jacket that provides cost effective operation of machine tools requiring long service life in harsh environments. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The polyurethane outer jacket provides excellent resistance to abrasion and mineral oils in continuous flex applications. Passes the stringent VDE test 0282 part 10 and HD 22.10 oil test.

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:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
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:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-40/+70 °C +5/+70 °C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

Outstanding features:

- **very good EMC characteristics**
- **improved abrasion resistance**
- **high tear resistance**
- **good chemical resistance**
- **increased efficiency**

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07880205	2	0.299	7.6	57
07880305	3	0.311	7.9	61
07880405	4	0.327	8.3	69
07880505	5	0.350	8.9	79
07880705	7	0.406	10.3	106
07881205	12	0.476	12.1	139
07881805	18	0.535	13.6	184
07882505	25	0.642	16.3	183
07883605	36	0.724	18.4	341
07884405	44	0.795	20.2	392
07885205	52	0.823	20.9	437
07886505	65	0.925	23.5	541

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07880207	2	0.319	8.1	68
07880307	3	0.331	8.4	73
07880407	4	0.350	8.9	81
07880507	5	0.374	9.5	93
07880707	7	0.441	11.2	126
07881207	12	0.516	13.1	169
07881807	18	0.587	14.9	228
07882507	25	0.724	18.4	327
07883607	36	0.795	20.2	425
07884407	44	0.874	22.2	491
07885207	52	0.921	23.4	568
07886507	65	1.028	26.1	694

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07880210	2	0.319	8.1	73
07880310	3	0.339	8.6	79
07880410	4	0.362	9.2	91
07880510	5	0.402	10.2	112
07880710	7	0.453	11.5	140
07881210	12	0.531	13.5	196
07881810	18	0.622	15.8	269
07882510	25	0.748	19.0	374
07883610	36	0.823	20.9	491
07884410	44	0.921	23.4	583
07885210	52	0.965	24.5	671
07886510	65	1.039	26.4	817

Continued on next page

S 90 C Continuous flex shielded polyurethane cable

Marking for S 90 C 07880515:
SAB BRÖCKSKES · D-VIERSEN · S 90 C 5 x 1,5 mm²

S 90 C is a continuous flex cable with a polyurethane outer jacket that provides cost effective operation of machine tools requiring long service life in harsh environments. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The polyurethane outer jacket provides excellent resistance to abrasion and mineral oils in continuous flex applications. Passes the stringent VDE test 0282 part 10 and HD 22.10 oil test.

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:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
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:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-40/+70 °C +5/+70 °C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

Outstanding features:

- **very good EMC characteristics**
- **improved abrasion resistance**
- **high tear resistance**
- **good chemical resistance**
- **increased efficiency**

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07880215	2	0.350	8.9	87
07880315	3	0.366	9.3	97
07880415	4	0.406	10.3	119
07880515	5	0.433	11.0	136
07880715	7	0.500	12.7	179
07881215	12	0.583	14.8	247
07881815	18	0.705	17.9	368
07882515	25	0.823	20.9	483
07883615	36	0.921	23.4	656
07884415	44	1.024	26.0	784
07885215	52	1.063	27.0	889
07886515	65	1.201	30.5	1100

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07880225	2	0.437	11.1	134
07880325	3	0.457	11.6	150
07880425	4	0.496	12.6	175
07880525	5	0.535	13.6	208
07880725	7	0.642	16.3	294
07881225	12	0.791	20.1	430
07881825	18	0.890	22.6	573
07882525	25	1.063	27.0	767
07883625	36	1.201	30.5	1046
► **12 AWG (≈ 224/34) • 4.00 mm²**				
07880240	2	0.500	12.7	163
07880340	3	0.524	13.3	194
07880440	4	0.559	14.2	232
07880540	5	0.606	15.4	288
07880740	7	0.728	18.5	412

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **10 AWG (≈ 186/32) • 6.00 mm²**				
07880260	2	0.614	15.6	228
07880360	3	0.618	15.7	274
07880460	4	0.673	17.1	340
07880560	5	0.740	18.8	432
07880760	7	0.850	21.6	571
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07880461	4	0.795	20.2	508
07880561	5	0.866	22.0	637
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07880462	4	0.913	23.2	716
07880562	5	1.008	25.6	925
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07880463	4	1.071	27.2	1031
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07880464	4	1.213	30.8	1348

Other dimensions and colors are possible on request.

with colored conductors

RoHS

SD 90 C TP Continuous flex shielded twisted pairs polyurethane cable

CE

Marking for SD 90 C TP 07710325:
SAB BRÖCKSKES · D-VIERSEN · SD 90 C TP 3 x 2 x 0,25 mm² CE

S 90 C TP is a flexible, multi-paired cable with polyurethane outer jacket that provides cost-effective operation of machine tools requiring a long service life in harsh environments. The tear resistant polyurethane 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
Stranding:	conductors twisted to pairs, pairs twisted in specially adjusted layering with non-woven tape over the outer layer
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:

- **very good EMC characteristics**
- **improved abrasion resistance**
- **high tear resistance**
- **good chemical resistance**
- **increased efficiency**

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:*	-30/+70 °C -5/+70 °C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07710214	2	0.193	4.9	21
07710314	3	0.213	5.4	25
07710414	4	0.236	6.0	30
07710514	5	0.256	6.5	36
07710714	7	0.276	7.0	45
07711814	18	0.409	10.4	96
07712514	25	0.476	12.1	125
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07710225	2	0.213	5.4	27
07710325	3	0.232	5.9	32
07710425	4	0.264	6.7	40
07710525	5	0.283	7.2	47
07710725	7	0.299	7.6	60
07711825	18	0.472	12.0	137
07712525	25	0.547	13.9	181
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07710234	2	0.248	6.3	36
07710334	3	0.272	6.9	42
07710434	4	0.311	7.9	52
07710534	5	0.346	8.8	65
07710734	7	0.370	9.4	85
07711834	18	0.583	14.8	193
07712534	25	0.673	17.1	263

Other dimensions and colors are possible on request.

SD 200

Continuous flex halogen free TPE outer jacket control 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 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.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	TPE
Color code:	with reference to DIN 47100
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Jacket material:	TPE outer jacket
Jacket color:	gray

Outstanding features:

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

Technical data:

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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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 outer jacket 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 x 1,5 mm²

B
49

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 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.

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:	TPE outer jacket
Jacket color:	gray

Outstanding features:

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

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2
Min. bending radius *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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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 outer jacket control cable with extreme temperature range

Marking for S 200 07740116:
SAB BRÖCKSKES · D-VIERSEN · S 200 1 x 10,0 mm² CE

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

B
50

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 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.

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:	TPE outer jacket
Jacket color:	gray

Outstanding features:

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

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2
Min. bending radius *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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
► **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	0.827	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
► **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	1.021	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 outer jacket shielded control data cable with extreme temperature range

RoHS

CE

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

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 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
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:	TPE outer jacket
Jacket color:	gray

Outstanding features:

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

Technical data:

Peak operating voltage:	max. 350 V acc. to DIN VDE
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509 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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
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 outer jacket 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 x 1,5 mm²

B
52

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 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 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:	TPE outer jacket
Jacket color:	gray

Outstanding features:

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

Technical data:

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 10^6 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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
► **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
► **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 outer jacket 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 x 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 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 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:	TPE outer jacket
Jacket color:	gray

Outstanding features:

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

Technical data:

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 10^6 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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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	79
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 outer jacket 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 x 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 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 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:	TPE outer jacket
Jacket color:	gray

Outstanding features:

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

Technical data:

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 10^6 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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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
► **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
► **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 TPE outer jacket shielded twisted pairs control 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-conductor 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
Stranding:	conductors twisted to pairs, pairs twisted in specially adjusted layering with non-woven tape over ech layer
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	TPE outer jacket
Jacket color:	gray

Outstanding features:

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

Technical data:

Peak operating voltage:	max. 350 V acc. to DIN VDE
Testing voltage:	1500 V acc. to DIN VDE 0472 part 509 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
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

► **26 AWG (≈ 18/38) • 0.14 mm²**

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
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**

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
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

► **22 AWG (≈ 42/38) • 0.34 mm²**

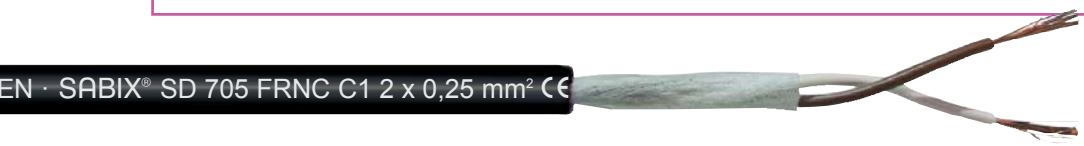
item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
07890234	2	0.213	5.4	27
07890334	3	0.236	6.0	35
07890434	4	0.272	6.9	42
07890534	5	0.291	7.4	49
07890734	7	0.315	8.0	63
07891034	10	0.378	9.6	81
07891434	14	0.457	11.6	122
07891834	18	0.492	12.5	150
07892534	25	0.579	14.7	210

Other dimensions and colors are possible on request.

RoHS

SABIX® SD 705 FRNC C1

Continuous flex halogen free data cable with extended temperature range and highest fire protection



CE

Marking for SABIX® SD 705 FRNC C1 67050225:
SAB BRÖCKSKES · D-VIERSEN · SABIX® SD 705 FRNC C1 2 x 0,25 mm² CE

SABIX® SD 705 FRNC C1 is a halogen free, flexible, flame retardent, multi-conductor data cable designed for flexible applications in areas with highest fire protection requirements e.g. power plant technology, railway applications.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Color code:	with reference to DIN 47100
Stranding:	in layers
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black

Outstanding features:

- **halogen-free**
- **continuously flexible**
- **no flame propagation**
- **flame retardant and self-extinguishing**
- **oil and fuel resistant**
- **good acid and alkalines resistance**
- **NF C 32-070 C1**
- **UV resistant jacket**

Technical data:

Peak operating voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	< 24 AWG = 800 V ≥ 24 AWG = 1200 V
Min. bending radius *fixed installation:* *flexing:* *continuous flexing:*	 5 x O.D. 10 x O.D. 12.5 x O.D.
Radiation resistance:	1 x 10^7 cJ/kg (100 kGy)
Temperature range *static:* *flexing:*	 -50/+90 °C -30/+90 °C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1
Corrosivity:	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034
Toxicity:	acc. to NF X 70-100
Oil and fuel resistance:	acc. to EN 50264-1
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
67050214	2	0.126	3.2	9
67050314	3	0.134	3.4	11
67050514	5	0.154	3.9	16
67050714	7	0.177	4.5	22
► **24 AWG (≈ 32/38) • 0.25 mm²**				
67050225	2	0.138	3.5	12
67050325	3	0.146	3.7	14
67050425	4	0.157	4.0	17
67051025	10	0.240	6.1	40
67051225	12	0.248	6.3	43
67051425	14	0.260	6.6	48
67051825	18	0.287	7.3	60
67052525	25	0.343	8.7	79
► **22 AWG (≈ 42/38) • 0.34 mm²**				
67050234	2	0.161	4.1	16
67050534	5	0.209	5.3	29
67050734	7	0.248	6.3	42
67051034	10	0.287	7.3	51
67052534	25	0.437	11.1	121

Other dimensions and colors are possible on request.

SABIX® S 710 FRNC C1

Continuous flex halogen free control cable with extended temperature range and highest fire protection

RoHS

CE

Marking for SABIX® S 710 FRNC C1 67100415:
SAB BRÖCKSKES · D-VIERSEN · SABIX® S 710 FRNC C1 4 x 1,5 mm² CE

SABIX® S 710 FRNC C1 is a halogen free, flexible, flame retardent, multi-conductor control cable designed for flexible applications in areas with highest fire protection requirements e.g. power plant technology, railway applications.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	SABIX®
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	in layers
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black

Outstanding features:

- **halogen-free**
- **continuously flexible**
- **no flame propagation**
- **flame retardant and self-extinguishing**
- **oil and fuel resistant**
- **good acid and alkalines resistance**
- **NF C 32-070 C1**
- **UV resistant jacket**

Technical data:

Nominal voltage:	0.6/1 kV
Testing voltage:	4000 V
Min. bending radius	
fixed installation:	4 x O.D.
flexing:	6 x O.D.
continuous flexing:	12.5 x O.D.
Radiation resistance:	1 x 10^7 cJ/kg (100 kGy)
Temperature range	
static:	-50/+90 °C
flexing:	-30/+90 °C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1
Corrosivity:	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034
Toxicity:	acc. to NF X 70-100
Oil and fuel resistance:	acc. to EN 50264-1
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
67100205	2	0.252	6.4	42
67100505	5	0.323	8.2	65
► **19 AWG (≈ 42/34) • 0.75 mm²**				
67100507	5	0.354	9.0	81
67100707	7	0.421	10.7	114
► **18 AWG (≈ 56/34) • 1.00 mm²**				
67100310	3	0.311	7.9	62
67100510	5	0.366	9.3	92
67100710	7	0.437	11.1	130
67101210	12	0.535	13.6	191
67101810	18	0.634	16.1	273

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **16 AWG (≈ 84/34) • 1.50 mm²**				
67100215	2	0.339	8.6	75
67100315	3	0.362	9.2	85
67100415	4	0.382	9.7	101
67100515	5	0.429	10.9	127
67100715	7	0.516	13.1	185
67101215	12	0.622	15.8	262
67101815	18	0.736	18.7	378
67102415	24	0.858	21.8	485
67102515	25	0.870	22.1	494
► **14 AWG (≈ 140/34) • 2.50 m²**				
67100325	3	0.425	10.8	123
67100425	4	0.476	12.1	161
67100525	5	0.531	13.5	198
67100725	7	0.622	15.8	274
67101225	12	0.756	19.2	392

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
67100440	4	0.531	13.5	216
► **10 AWG (≈ 183/32) • 6.00 mm²**				
67100460	4	0.606	15.4	287
► **8 AWG (≈ 320/32) • 10.00 mm²**				
67100461	4	0.756	19.2	517
► **6 AWG (≈ 504/32) • 16.00 mm²**				
67100462	4	0.870	22.1	675
► **1 AWG (≈ 703/28) • 50.00 mm²**				
67100465	4	1.413	35.9	1846

Other dimensions and colors are possible on request.

RoHS

SABIX® SD 715 C FRNC C1

Continuous flex halogen free shielded data cable with extended temperature range and highest fire protection

CE

Marking for SABIX® SD 715 C FRNC C1 6715725:
SAB BRÖCKSKES · D-VIERSEN · SABIX® SD 715 C FRNC C1 7 x 0,25 mm² CE

SABIX® SD 715 C FRNC C1 is a halogen free, flexible, flame retardent, tinned copper shielded, multi-conductor data cable designed for flexible applications in areas with highest fire protection requirements e.g. power plant technology, railway applications. 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:	SABIX®
Color code:	with reference to DIN 47100
Stranding:	in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding optical coverage ≥ 85%
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black

Outstanding features:

- **halogen-free**
- **continuously flexible**
- **good EMC characteristics**
- **no flame propagation**
- **flame retardant and self-extinguishing**
- **oil and fuel resistant**
- **good acid and alkalines resistance**
- **NF C 32-070 C1**
- **UV resistant jacket**

Technical data:

Peak operating voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	< 24 AWG = 800 V ≥ 24 AWG = 1200 V
Min. bending radius *fixed installation:* *flexing:* *continuous flexing:*	 5 x O.D. 10 x O.D. 15 x O.D.
Radiation resistance:	1 x 10^7 cJ/kg (100 kGy)
Temperature range *static:* *flexing:*	 -50/+90 °C -30/+90 °C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1
Corrosivity:	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034
Toxicity:	acc. to NF X 70-100
Oil and fuel resistance:	acc. to EN 50264-1
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
67150214	2	0.146	3.7	15
67150314	3	0.154	3.9	17
67151214	12	0.272	6.9	46
67151814	18	0.291	7.4	59
67152514	25	0.350	8.9	80
► **24 AWG (≈ 32/38) • 0.25 mm²**				
67150225	2	0.157	4.0	17
67150425	4	0.177	4.5	24
67150525	5	0.205	5.2	31
67150625	6	0.244	6.2	42
67150725	7	0.260	6.6	48
67150825	8	0.280	7.1	54
67151225	12	0.307	7.8	65
67151825	18	0.378	9.6	103
67152525	25	0.390	9.9	123

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
67150434	4	0.213	5.4	32
67150534	5	0.244	6.2	42
67150734	7	0.276	7.0	54
67151234	12	0.335	8.5	79
► **20 AWG (≈ 28/34) • 0.50 mm²**				
67150205	2	0.205	5.2	29
67150405	4	0.240	6.1	42
67150505	5	0.260	6.6	50

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **19 AWG (≈ 42/34) • 0.75 mm²**				
67150475	4	0.268	6.8	53
67150575	5	0.291	7.4	63
67150775	7	0.362	9.2	95
► **16 AWG (≈ 84/34) • 1.50 mm²**				
67150715	7	0.417	10.6	146

Other dimensions and colors are possible on request.

SABIX® S 712 C FRNC C1

Continuous flex halogen free shielded control cable with extended temperature range and highest fire protection

RoHS

CE

Marking for SABIX® S 712 C FRNC C1 67120315:
SAB BRÖCKSKES · D-VIERSEN · SABIX® S 712 C FRNC C1 3 x 1,5 mm² CE

SABIX® S 712 C FRNC C1 is a halogen free, flexible, flame retardent, tinned copper shielded, multi-conductor control cable designed for flexible applications in areas with highest fire protection requirements e.g. power plant technology, railway applications. 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:	SABIX®
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Wrapping:	non-woven tape
Stranding:	in layers
Screen:	tinned copper braiding optical coverage ≥ 85%
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black

Outstanding features:

- **halogen-free**
- **continuously flexible**
- **good EMC characteristics**
- **no flame propagation**
- **flame retardant and self-extinguishing**
- **oil and fuel resistant**
- **good acid and alkalines resistance**
- **NF C 32-070 C1**
- **UV resistant jacket**

Technical data:

Nominal voltage:	0.6/1 kV
Testing voltage:	conductor/conductor 2000 V conductor/screen 4000 V
Min. bending radius *fixed installation:* *flexing:* *continuous flexing:*	 5 x O.D. 10 x O.D. 15 x O.D.
Radiation resistance:	1 x 10^7 cJ/kg (100 kGy)
Temperature range *static:* *flexing:*	 -50/+90 °C -30/+90 °C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1
Corrosivity:	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034
Toxicity:	acc. to NF X 70-100
Oil and fuel resistance:	acc. to EN 50264-1
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
67120205	2	0.280	7.1	54
67120505	5	0.346	8.8	81
► **19 AWG (≈ 42/34) • 0.75 mm²**				
67120507	5	0.378	9.6	99
67120707	7	0.449	11.4	142
► **18 AWG (≈ 56/34) • 1.00 mm²**				
67120510	5	0.386	9.8	109
67120710	7	0.480	12.2	168
67121210	12	0.563	14.3	226
67121810	18	0.669	17.0	330

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **16 AWG (≈ 84/34) • 1.50 mm²**				
67120215	2	0.350	8.9	88
67120315	3	0.374	9.5	100
67120415	4	0.413	10.5	129
67120515	5	0.472	12.0	165
67121215	12	0.657	16.7	319
67121815	18	0.772	19.6	444
67122515	25	0.909	23.1	581
► **14 AWG (≈ 140/34) • 2.50 mm²**				
67120225	2	0.429	10.9	135
67120325	3	0.453	11.5	153
67120425	4	0.504	12.8	193
67120525	5	0.559	14.2	233
67121225	12	0.795	20.2	468

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
67120440	4	0.559	14.2	251
67120540	5	0.634	16.1	323
67120740	7	0.744	18.9	438
► **10 AWG (≈ 183/32) • 6.00 mm²**				
67120260	2	0.551	14.0	228
67120460	4	0.654	16.6	345
► **6 AWG (≈ 504/32) • 16.00 mm²**				
67120462	4	0.909	23.1	760
► **4 AWG (≈ 760/32) • 25.00 mm²**				
67120463	4	1.071	27.2	1085
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
67120464	4	1.217	30.9	1459

Other dimensions and colors are possible on request.

RoHS

SABIX® SD 745 C FRNC C1 TP

Continuous flex halogen free shielded twisted pairs data cable with extended temperature range and highest fire protection

CE

Marking for SABIX® SD 745 C FRNC C1 TP 67450250:
SAB BRÖCKSKES · D-VIERSEN · SABIX® SD 745 C FRNC C1 TP 2 x 2 x 0,50 mm² CE

SABIX® SD 745 C FRNC C1 TP is a halogen free, flexible, flame retardent, tinned copper shielded, twisted pairs, multi-conductor data cable designed for flexible applications in areas with highest fire protection requirements e.g. power plant technology, railway applications. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

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Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Color code:	with reference to DIN 47100
Stranding:	pairwise, pairs in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding optical coverage ≥ 85%
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black

Outstanding features:

- **halogen-free**
- **continuously flexible**
- **good EMC characteristics**
- **no flame propagation**
- **flame retardant and self-extinguishing**
- **oil and fuel resistant**
- **good acid and alkalines resistance**
- **NF C 32-070 C1**
- **UV resistant jacket**

Technical data:

Peak operating voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	< 24 AWG = 800 V ≥ 24 AWG = 1200 V
Min. bending radius *fixed installation:* *flexing:* *continuous flexing:*	 5 x O.D. 10 x O.D. 15 x O.D.
Radiation resistance:	1 x 10^7 cJ/kg (100 kGy)
Temperature range *static:* *flexing:*	 -50/+90 °C -30/+90 °C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1
Corrosivity:	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034
Toxicity:	acc. to NF X 70-100
Oil and fuel resistance:	acc. to EN 50264-1
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
67450214	2	0.193	4.9	25
67450414	4	0.244	6.2	37
67450514	5	0.264	6.7	44
67450614	6	0.272	6.9	48
67451014	10	0.343	8.7	71
67451414	14	0.402	10.2	99
► **24 AWG (≈ 32/38) • 0.25 mm²**				
67450225	2	0.213	5.4	30
67450425	4	0.272	6.9	46
67450625	6	0.299	7.6	61
67450725	7	0.311	7.9	69
67450825	8	0.366	9.3	89
67451025	10	0.386	9.8	99
67451225	12	0.421	10.7	116
67451425	14	0.445	11.3	128
67451625	16	0.461	11.7	138
► **22 AWG (≈ 42/38) • 0.34 mm²**				
67450734	7	0.394	10.0	107
67451034	10	0.457	11.6	128
67451834	18	0.594	15.1	234
► **20 AWG (≈ 28/34) • 0.50 mm²**				
67450250	2	0.280	7.1	50
67450350	3	0.307	7.8	60
67450450	4	0.366	9.3	80
67451050	10	0.524	13.3	177
67451850	18	0.673	17.1	300
67452550	25	0.764	19.4	382
► **19 AWG (≈ 42/34) • 0.75 mm²**				
67450275	2	0.315	8.0	62
67450475	4	0.425	10.8	115
67450875	8	0.591	15.0	225
67451075	10	0.602	15.3	243

Other dimensions and colors are possible on request.