

# Continuous Flex Cables for Track

## SD 980 CP TP

High speed continuous flex twisted pairs heavy duty shielded halogen-free polyurethane data cable



Marking for SD 980 CP TP 77892403:

SAB BRÖCKSKES · D-VIERSEN · 77890325 3 x 2 x 0.25 mm<sup>2</sup> SD 980 CP TP 24 AWG/3pr 77892403 AWM Style 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

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### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Insulation:</b>	TPE
<b>Color code:</b>	DIN 47100, see below
<b>Stranding:</b>	conductors twisted to pairs, pairs twisted in specially adjusted layering with netting tape over each layer
<b>Shielding:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	PUR, TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with matte surface
<b>Jacket color:</b>	grayish tan (RAL 7032)

### Technical data:

<b>Peak operating voltage:</b>	max. 350 V	
<b>Voltage UL/CSA:</b>	300 V	
<b>Testing voltage:</b>	conductor/conductor: 2000 V conductor/shielding: 2000 V	
<b>Min. bending radius:</b>	<i>continuously flexing:</i> 7.5 x O.D.	
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range:</b>	<b>DIN VDE</b> static: -50/+90°C flexing: -40/+90°C	<b>UL/CSA:</b> up to +80°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1	
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, CSA FT1 (acc.to dimension), FT2	
<b>Oil resistance:</b>	very good - TMPU acc. to IEC 50363-10-2 + VDE 0207-363-10-2	
<b>Chemical resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids, etc.	
<b>Continuous flexibility:</b>	very good	
<b>Approvals:</b>	UR AWM, CSA AWM, CE, RoHS	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30	

### Outstanding features:



- free from paint wetting impairment substances (PWIS-free)
- flexible at low temperatures
- halogen-free
- travel > 10 m is possible
- good EMC characteristics
- high abrasion resistance
- small bending radius

item no.	no. of pairs	outer-ø		cable weight
		±10% inch	±10% mm	≈lbs/mft
<b>▶ 26 AWG (≈ 18/38) ▪ 0.14 mm<sup>2</sup></b>				
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
<b>▶ 24 AWG (≈ 32/38) ▪ 0.25 mm<sup>2</sup></b>				
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	105
77892418	18	0.457	11.6	126
77892425	25	0.551	14.0	185

item no.	no. of pairs	outer-ø		cable weight
		±10% inch	±10% mm	≈lbs/mft
<b>▶ 22 AWG (≈ 42/38) ▪ 0.34 mm<sup>2</sup></b>				
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
<b>▶ 20 AWG (≈ 28/34) ▪ 0.50 mm<sup>2</sup></b>				
77892002	2	0.268	6.8	40
77892003	3	0.299	7.6	53
77892004	4	0.343	8.7	66
77892005	5	0.370	9.4	76
77892007	7	0.406	10.3	99
77892010	10	0.476	12.1	132
77892014	14	0.563	14.3	189
77892018	18	0.634	16.1	244
77892025	25	0.709	18.0	309

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

Other dimensions and colors are available on request

#### DIN 47100 color code:

- #1- white/brown, #2- green/yellow, #3- gray/pink, #4- blue/red, #5- black/purple, #6- gray-pink/red-blue, #7- white-green/brown-green, #8- white-yellow/yellow-brown, #9- white-gray/gray-brown, #10- white-pink/pink-brown, #11- white-blue/brown-blue, #12- white-red/brown-red, #13- white-black/brown-black, #14- gray-green/yellow-gray, #15- pink-green/yellow-pink, #16- green-blue/yellow-blue, #17- green-red/yellow-red, #18- green-black/yellow-black, #19- blue-blue/pink-blue, #20- gray-red/pink-red, #21- gray-black/pink-black, #22- blue-black, red-black, #23- white/brown, #24- green/yellow, #25- gray/pink



#### Possible on request:

- 20 AWG & 19 AWG
- with colored conductors acc. to US 3

