

# CONTINUOUS FLEX CABLES

also available  
with color code  
acc. to US 2



## SD 980 CP High speed continuous flex shielded heavy duty halogen-free PUR data cable



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

Marking for SD 980 CP 77842501: SAB BRÖCKSKES · D-VIERSEN · 77842501 25 x 0.14 mm<sup>2</sup> SD 980 CP 26 AWG/25c 77842625  
AWM Style 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

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 PUR outer jacket cable with colored conductors passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

**B**  
**25**

### Construction:

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

### Outstanding features:

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

### Technical data:

<b>Peak operating voltage:</b>	<b>DIN VDE:</b> max. 350 V <b>UL/CSA:</b> 300 V
<b>Testing voltage U:</b>	1500 V acc. to DIN VDE 0472 part 509 conductor/screen 1200 V
<b>Min. bending radius continuous flexing:</b>	7.5 x O.D.
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range static flexing:</b>	<b>DIN VDE</b> <b>UL/CSA:</b> up to +80°C -50/+90°C -40/+90°C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, CSA FT1 (acc. to dimensions), FT2
<b>Oil resistance:</b>	very good acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chemical resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Continuous flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 26 AWG (≈ 18/38) • 0.14 mm <sup>2</sup>					▶ 24 AWG (≈ 32/38) • 0.25 mm <sup>2</sup>					▶ 22 AWG (≈ 42/38) • 0.34 mm <sup>2</sup>				
77842603	3	0.165	4.2	16	77842403	3	0.181	4.6	19	77842203	3	0.189	4.8	22
77842604	4	0.177	4.5	18	77842404	4	0.189	4.8	22	77842204	4	0.201	5.1	26
77842605	5	0.193	4.9	22	77842405	5	0.205	5.2	27	77842205	5	0.220	5.6	30
77842607	7	0.209	5.3	26	77842407	7	0.228	5.8	32	77842207	7	0.244	6.2	37
77842610	10	0.236	6.0	32	77842410	10	0.260	6.6	41	77842210	10	0.276	7.0	48
77842614	14	0.252	6.4	37	77842414	14	0.276	7.0	51	77842214	14	0.295	7.5	60
77842618	18	0.276	7.0	46	77842418	18	0.307	7.8	61	77842218	18	0.323	8.2	73
77842625	25	0.315	8.0	59	77842425	25	0.354	9.0	81	77842225	25	0.378	9.6	95

Other dimensions and colors are possible on request.

