

# Continuous Flex Cables for Track

## S 980 P

High speed continuous flex heavy duty halogen-free polyurethane control cable



Marking for S 980 P 77742012:

SAB BRÖCKSKES · D-VIERSEN · 77741205 S 980 P 12 x 0.50 mm<sup>2</sup> 20 AWG/12c 77742012 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
<b>Stranding:</b>	specially adjusted layering with netting tape over each layer and one additional non-woven tape over the outer layer
<b>Jacket material:</b>	PUR, TMPU acc. to EN 50363-3 + VDE 0207-363-3-10-2 with matte surface
<b>Jacket color:</b>	gray (RAL 7000)

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	Uo/U 300/500 V	
<b>Voltage UL/CSA:</b>	600 V	
<b>Testing voltage:</b>	conductor/conductor: 2000 V	
<b>Min. bending radius:</b>	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>	<b>UL/CSA:</b>
<i>static:</i>	-50/+90°C	up to +80°C
<i>flexing:</i>	-40/+90°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, 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	

B  
25

item no.	no. of conductors incl. ground	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft
<b>▶ 20 AWG (≈ 28/34) ▪ 0.50 mm<sup>2</sup></b>				
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
<b>▶ 19 AWG (≈ 42/34) ▪ 0.75 mm<sup>2</sup></b>				
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
<b>▶ 18 AWG (≈ 56/34) ▪ 1.00 mm<sup>2</sup></b>				
77741803	3	0.287	7.3	46
77741804	4	0.311	7.9	56
77741805	5	0.339	8.6	66
77741807	7	0.394	10.0	86
77741812	12	0.461	11.7	131
77741818	18	0.539	13.7	185
77741825	25	0.642	16.3	252

item no.	no. of conductors incl. ground	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft
<b>▶ 16 AWG (≈ 84/34) ▪ 1.50 mm<sup>2</sup></b>				
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
<b>▶ 14 AWG (≈ 140/34) ▪ 2.50 mm<sup>2</sup></b>				
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
<b>▶ 12 AWG (≈ 224/34) ▪ 4.00 mm<sup>2</sup></b>				
77741203	3	0.413	10.5	148
77741204	4	0.453	11.5	156
77741205	5	0.496	12.6	182
<b>▶ 10 AWG (≈ 186/32) ▪ 6.00 mm<sup>2</sup></b>				
77741003	3	0.480	12.2	173
77741004	4	0.524	13.3	217
77741005	5	0.575	14.6	253

item no.	no. of conductors incl. ground	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft
<b>▶ 8 AWG (≈ 320/32) ▪ 10.00 mm<sup>2</sup></b>				
77740803	3	0.622	15.8	281
77740804	4	0.685	17.4	360
77740805	5	0.768	19.5	439
<b>▶ 6 AWG (≈ 504/32) ▪ 16.00 mm<sup>2</sup></b>				
77740603	3	0.732	18.6	399
77740604	4	0.811	20.6	554
77740605	5	0.965	24.5	714
<b>▶ 4 AWG (≈ 760/32) ▪ 25.00 mm<sup>2</sup></b>				
77740404	4	1.024	26.0	835
77740405	5	1.138	28.9	1016
<b>▶ 2 AWG (≈ 1083/32) ▪ 35.00 mm<sup>2</sup></b>				
77740204	4	1.161	29.5	1093
77740205	5	1.291	32.8	1332
<b>▶ 1 AWG (≈ 703/28) ▪ 50.00 mm<sup>2</sup></b>				
77740104	4	1.425	36.2	1566

Other dimensions and colors are available on request



### Possible on request:

- with blue, red or white conductors

