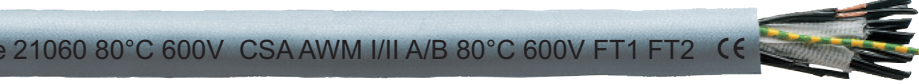


also available with blue, red and white conductors

# CONTINUOUS FLEX CABLES



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



Marking for S 980 P 77741807: SAB BRÖCKSKES · D-VIERSEN · 77741807 S 980 P 18 G 0.75 mm<sup>2</sup> 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 PUR outer jacket cable with black numbered conductors passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion.

B  
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### Construction:

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

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE:</b> U <sub>0</sub> /U 300/500 V <b>UL/CSA:</b> 600 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<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> -50/+90°C <b>UL/CSA:</b> up to +80°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, 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

### Outstanding features:

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

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 20 AWG (≈ 28/34) • 0.50 mm<sup>2</sup></b>					<b>▶ 16 AWG (≈ 84/34) • 1.50 mm<sup>2</sup></b>					<b>▶ 10 AWG (≈ 186/32) • 6.00 mm<sup>2</sup></b>				
77742003	3	0.260	6.6	35	77741603	3	0.315	8.0	58	77741003	3	0.480	12.2	173
77742004	4	0.280	7.1	41	77741604	4	0.350	8.9	73	77741004	4	0.524	13.3	217
77742005	5	0.307	7.8	48	77741605	5	0.370	9.4	88	77741005	5	0.575	14.6	253
77742007	7	0.350	8.9	62	77741607	7	0.429	10.9	113	<b>▶ 8 AWG (≈ 320/32) • 10.00 mm<sup>2</sup></b>				
77742012	12	0.413	10.5	93	77741612	12	0.512	13.0	175	77740803	3	0.622	15.8	281
77742018	18	0.476	12.1	129	77741618	18	0.563	14.3	247	77740804	4	0.685	17.4	360
77742025	25	0.563	14.3	171	77741625	25	0.720	18.3	344	77740805	5	0.768	19.5	439
<b>▶ 19 AWG (≈ 42/34) • 0.75 mm<sup>2</sup></b>					<b>▶ 14 AWG (≈ 140/34) • 2.50 mm<sup>2</sup></b>					<b>▶ 6 AWG (≈ 504/32) • 16.00 mm<sup>2</sup></b>				
77741903	3	0.280	7.1	40	77741403	3	0.366	9.3	85	77740603	3	0.732	18.6	399
77741904	4	0.299	7.6	48	77741404	4	0.394	10.0	104	77740604	4	0.811	20.6	554
77741905	5	0.331	8.4	57	77741405	5	0.437	11.1	126	77740605	5	0.965	24.5	714
77741907	7	0.378	9.6	73	77741407	7	0.504	12.8	167	<b>▶ 4 AWG (≈ 760/32) • 25.00 mm<sup>2</sup></b>				
77741912	12	0.441	11.2	110	77741412	12	0.618	15.7	269	77740404	4	1.024	26.0	835
77741918	18	0.524	13.3	155	77741418	18	0.732	18.6	388	77740405	5	1.138	28.9	1016
77741925	25	0.618	15.7	210	77741425	25	0.925	23.5	569	<b>▶ 2 AWG (≈ 1083/32) • 35.00 mm<sup>2</sup></b>				
<b>▶ 18 AWG (≈ 56/34) • 1.00 mm<sup>2</sup></b>					<b>▶ 12 AWG (≈ 224/34) • 4.00 mm<sup>2</sup></b>					<b>▶ 1 AWG (≈ 703/28) • 50.00 mm<sup>2</sup></b>				
77741803	3	0.287	7.3	46	77741203	3	0.413	10.5	149	77740204	4	1.161	29.5	1093
77741804	4	0.311	7.9	56	77741204	4	0.453	11.5	156	77740205	5	1.291	32.8	1333
77741805	5	0.339	8.6	66	77741205	5	0.496	12.6	182	77740104	4	1.425	36.2	1566
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										

Other dimensions and colors are possible on request.

