

also available with black and red conductors and orange jacket

# CONTINUOUS FLEX CABLES



## 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 mm<sup>2</sup> 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 CE

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.

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	PVC, Tl2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Color code:</b>	blue 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
<b>Jacket material:</b>	PU acc. to UL 758 with mat surface
<b>Jacket color:</b>	gray

### Outstanding features:

- very good oil resistant
- very good chemical resistance
- high abrasion resistance
- very good flexibility

### 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</b> <i>continuous flexing:</i>	7.5 x O.D.
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b> <i>static:</i> <i>flexing:</i>	<b>DIN VDE</b> <b>UL/CSA:</b> up to +80°C -40/+70°C +5/+70°C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to UL VW-1, CSA FT1 and FT2
<b>Oil resistance:</b>	very good - oil rating 60°C acc. to UL 758
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Absence of harmful substances:</b>	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 20 AWG (33/34) • 0.50 mm<sup>2</sup></b>				
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
<b>▶ 19 AWG (42/34) • 0.75 mm<sup>2</sup></b>				
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
<b>▶ 18 AWG (56/34) • 1.00 mm<sup>2</sup></b>				
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
<b>▶ 18 AWG (56/34) • 1.00 mm<sup>2</sup></b>				
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
<b>▶ 16 AWG (84/34) • 1.50 mm<sup>2</sup></b>				
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
<b>▶ 14 AWG (140/34) • 2.50 mm<sup>2</sup></b>				
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
<b>▶ 12 AWG (224/34) • 4.00 mm<sup>2</sup></b>				
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
<b>▶ 10 AWG (192/32) • 6.00 mm<sup>2</sup></b>				
37211003	3	0.528	13.4	203
37211004	4	0.571	14.5	247
37211005	5	0.630	16.0	307
<b>▶ 8 AWG (320/32) • 10.00 mm<sup>2</sup></b>				
37210804	4	0.705	17.9	403
37210805	5	0.776	19.7	503
<b>▶ 6 AWG (512/32) • 16.00 mm<sup>2</sup></b>				
37210604	4	0.823	20.9	575
37210605	5	0.953	24.2	734
<b>▶ 4 AWG (798/32) • 25.00 mm<sup>2</sup></b>				
37210404	4	1.020	25.9	892
37210405	5	1.122	28.5	1089
<b>▶ 2 AWG (1102/32) • 35.00 mm<sup>2</sup></b>				
37210204	4	1.150	29.2	1165
37210205	5	1.272	32.3	1420
<b>▶ 1 AWG (703/28) • 50.00 mm<sup>2</sup></b>				
37210104	4	1.350	34.3	1659

Other dimensions and colors are possible on request.

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)