

also available  
with red and blue  
conductors  
and gray jacket

# CONTINUOUS FLEX CABLES



## S 960 Continuous flex control cable for small bending radius with black conductors



Marking for S 960 07521612: SAB BRÖCKSKES · D-VIERSEN ·  
07521215 12 G 1.5 mm<sup>2</sup> S 960 16 AWG/12c 07521612 AWM Style 2587 90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2 CE

S 960 is a very flexible multi-conductor 90°C, 600 V cable designed for continuous flex applications. The S 960 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.

B  
12

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<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
<b>Jacket material:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Jacket color:</b>	black

### Outstanding features:

- very good flexibility
- small bending radius
- reinforced outer jacket
- UV resistant jacket

### 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>	8 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 +90°C -40/+70°C +5/+70°C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2
<b>Oil resistance:</b>	acc. to our internal standard see page O/29
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
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▶ <b>20 AWG (≈ 28/34) • 0.50 mm<sup>2</sup></b>				
07522002	2	0.217	5.5	27
07522003	3	0.228	5.8	32
07522004	4	0.248	6.3	38
07522005	5	0.276	7.0	48
07522007	7	0.323	8.2	66
07522012	12	0.398	10.1	97
07522018	18	0.472	12.0	142
07522025	25	0.567	14.4	191
07522034	34	0.638	16.2	254
07522050	50	0.752	19.1	351
07522061	61	0.831	21.1	440

▶ <b>19 AWG (≈ 42/34) • 0.75 mm<sup>2</sup></b>				
07521902	2	0.232	5.9	32
07521903	3	0.248	6.3	38
07521904	4	0.268	6.8	46
07521905	5	0.295	7.5	57
07521907	7	0.358	9.1	82
07521912	12	0.433	11.0	119
07521918	18	0.516	13.1	175
07521925	25	0.622	15.8	238
07521934	34	0.705	17.9	319
07521950	50	0.831	21.1	450
07521961	61	0.925	23.5	558

▶ <b>18 AWG (≈ 56/34) • 1.00 mm<sup>2</sup></b>				
07521802	2	0.244	6.2	37
07521803	3	0.256	6.5	44
07521804	4	0.283	7.2	55
07521805	5	0.311	7.9	68
07521807	7	0.370	9.4	95

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
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▶ <b>18 AWG (≈ 56/34) • 1.00 mm<sup>2</sup></b>				
07521809	9	0.445	11.3	136
07521812	12	0.453	11.5	142
07521815	15	0.515	13.1	187
07521818	18	0.539	13.7	210
07521825	25	0.650	16.5	285
07521834	34	0.736	18.7	382
07521850	50	0.886	22.5	555
07521861	61	0.965	24.5	671

▶ <b>16 AWG (≈ 84/34) • 1.50 mm<sup>2</sup></b>				
07521602	2	0.268	6.8	47
07521603	3	0.287	7.3	59
07521604	4	0.315	8.0	73
07521605	5	0.346	8.8	91
07521607	7	0.417	10.6	129
07521609	9	0.496	12.6	179
07521612	12	0.512	13.0	194
07521618	18	0.606	15.4	286
07521625	25	0.736	18.7	390
07521634	34	0.831	21.1	522
07521650	50	0.988	25.1	749
07521661	61	1.087	27.6	915

▶ <b>14 AWG (≈ 140/34) • 2.50 mm<sup>2</sup></b>				
07521402	2	0.350	8.9	79
07521403	3	0.374	9.5	97
07521404	4	0.409	10.4	120
07521405	5	0.457	11.6	150
07521407	7	0.551	14.0	214
07521412	12	0.681	17.3	323
07521418	18	0.815	20.7	480
07521425	25	0.988	25.1	654

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
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▶ <b>12 AWG (≈ 224/34) • 4.00 mm<sup>2</sup></b>				
07521203	3	0.445	11.3	150
07521204	4	0.488	12.4	179
07521205	5	0.543	13.8	230
07521207	7	0.657	16.7	331

▶ <b>10 AWG (≈ 186/32) • 6.00 mm<sup>2</sup></b>				
07521003	3	0.516	13.1	214
07521004	4	0.571	14.5	256
07521005	5	0.638	16.2	329
07521007	7	0.764	19.4	470

▶ <b>8 AWG (≈ 320/32) • 10.00 mm<sup>2</sup></b>				
07520803	3	0.638	16.2	337
07520804	4	0.709	18.0	428
07520805	5	0.791	20.1	529

▶ <b>6 AWG (≈ 504/32) • 16.00 mm<sup>2</sup></b>				
07520603	3	0.764	19.4	507
07520604	4	0.846	21.5	641
07520605	5	0.949	24.1	798

▶ <b>4 AWG (≈ 760/32) • 25.00 mm<sup>2</sup></b>				
07520404	4	1.024	26.0	935
07520405	5	1.142	29.0	1195

▶ <b>2 AWG (≈ 1083/32) • 35.00 mm<sup>2</sup></b>				
07520204	4	1.173	29.8	1284
07520205	5	1.295	32.9	1582

▶ <b>1 AWG (≈ 703/28) • 50.00 mm<sup>2</sup></b>				
07520104	4	1.374	34.9	1796

Other dimensions and colors are possible on request.