

# CONTINUOUS FLEX CABLES

also available with orange jacket

## S 960 CP Very flexible continuous flex polyurethane control cable for small bending radius



Marking for S 960 CP 07861612: SAB BRÖCKSKES · D-VIERSEN ·  
07861215 12 x 1,5 mm<sup>2</sup> S 960 CP 16 AWG/12c 07861612 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

S 960 CP is a very flexible, shielded multi-conductor 80°C, 600 V cable designed for continuous flex applications. The special 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 an excellent chemical and abrasion resistance. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The S 960 CP 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, T12 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>Inner jacket:</b>	special PVC
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	PU acc. to UL 758 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 conductor/screen 2000 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:</b>	<b>DIN VDE</b> -40/+70°C <b>flexing:</b> +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>	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 directive of the European Union see page N/28

### Outstanding features:

- very good EMC characteristics
- high abrasion resistance
- very good flexibility

item no.	no. of conductors incl. ground	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/mft	item no.	no. of conductors incl. ground	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/mft	item no.	no. of conductors incl. ground	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/mft
<b>▶ 20 AWG (<math>\approx</math> 28/34) • 0.50 mm<sup>2</sup></b> 07862002 2 0.331 8.4 58 07862003 3 0.343 8.7 65 07862004 4 0.358 9.1 73 07862005 5 0.382 9.7 84 07862007 7 0.425 10.8 108 07862012 12 0.508 12.9 155 07862018 18 0.575 14.6 211 07862025 25 0.665 16.9 270 07862030 30 0.665 16.9 281 07862036 36 0.709 18.0 306					<b>▶ 18 AWG (<math>\approx</math> 56/34) • 1.00 mm<sup>2</sup></b> 07861812 12 0.563 14.3 209 07861818 18 0.646 16.4 288 07861825 25 0.756 19.2 372 07861830 30 0.764 19.4 432 07861836 36 0.886 22.5 530					<b>▶ 12 AWG (<math>\approx</math> 224/34) • 4.00 mm<sup>2</sup></b> 07861203 3 0.512 13.0 185 07861204 4 0.559 14.2 240 07861205 5 0.618 15.7 296 07861207 7 0.709 18.0 356 <b>▶ 10 AWG (<math>\approx</math> 186/32) • 6.00 mm<sup>2</sup></b> 07861003 3 0.626 15.9 276 07861004 4 0.665 16.9 325 07861005 5 0.728 18.5 393 07861007 7 0.917 23.3 560 <b>▶ 8 AWG (<math>\approx</math> 320/32) • 10.00 mm<sup>2</sup></b> 07860803 3 0.760 19.3 430 07860804 4 0.795 20.2 495 07860805 5 0.925 23.5 632 <b>▶ 6 AWG (<math>\approx</math> 504/32) • 16.00 mm<sup>2</sup></b> 07860603 3 0.949 24.1 606 07860604 4 0.980 24.9 776 07860605 5 1.063 27.0 872 <b>▶ 4 AWG (<math>\approx</math> 760/32) • 25.00 mm<sup>2</sup></b> 07860404 4 1.138 28.9 1062 07860405 5 1.248 31.7 1261 <b>▶ 2 AWG (<math>\approx</math> 1083/32) • 35.00 mm<sup>2</sup></b> 07860204 4 1.276 32.4 1365 Other dimensions and colors are possible on request.				
<b>▶ 19 AWG (<math>\approx</math> 42/34) • 0.75 mm<sup>2</sup></b> 07861902 2 0.346 8.8 65 07861903 3 0.358 9.1 71 07861904 4 0.378 9.6 81 07861905 5 0.402 10.2 94 07861907 7 0.457 11.6 122 07861912 12 0.539 13.7 175 07861918 18 0.626 15.9 248 07861925 25 0.732 18.6 321 07861930 30 0.736 18.7 375 07861936 36 0.799 20.3 411					<b>▶ 16 AWG (<math>\approx</math> 84/34) • 1.50 mm<sup>2</sup></b> 07861602 2 0.378 9.6 82 07861603 3 0.390 9.9 93 07861604 4 0.417 10.6 110 07861605 5 0.453 11.5 136 07861607 7 0.520 13.2 177 07861612 12 0.622 15.8 268 07861618 18 0.705 17.9 363 07861625 25 0.886 22.5 517 07861630 30 0.894 22.7 599 07861636 36 0.969 24.6 680					<b>▶ 14 AWG (<math>\approx</math> 140/34) • 2.50 mm<sup>2</sup></b> 07861402 2 0.449 11.4 121 07861403 3 0.469 11.9 142 07861404 4 0.508 12.9 171 07861405 5 0.555 14.1 216 07861407 7 0.646 16.4 286 07861412 12 0.768 19.5 398 07861418 18 0.949 24.1 636 07861425 25 1.106 28.1 828				

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