

also available  
with color code  
acc. to DIN 47100 and  
with orange jacket

# CONTINUOUS FLEX CABLES



## SD 960 CP Very flexible continuous flex polyurethane data cable for small bending radius



Marking for SD 960 CP 07862625: SAB BRÖCKSKES · D-VIERSEN ·

07862501 25 x 0,14 mm<sup>2</sup> SD 960 CP 26 AWG/25c 07862625 AWM Style 20910 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2 CE

SD 960 CP is a very flexible, shielded multi-conductor 80°C, 300 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 SD 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.

B  
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### Construction:

|                         |   |
|-------------------------|---|
| <b>Conductor:</b>       | bare copper strands, extra fine wires                           |
| <b>Insulation:</b>      | PVC, T12 acc. to DIN VDE 0281 part 1 + HD 21.1                  |
| <b>Color code:</b>      | acc. to color code US 2 see page N/25                           |
| <b>Stranding:</b>       | specially adjusted layering with non-woven tape over each layer |
| <b>Wrapping:</b>        | non-woven tape  |
| <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  |

### Outstanding features:

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

### Technical data:

|  |   |
|--|---|
| <b>Peak operating voltage:</b>                     | <b>DIN VDE:</b> max. 350 V<br><b>UL/CSA:</b> 300 V  |
| <b>Testing voltage U:</b>                          | 1500 V acc. to DIN VDE 0472 part 509<br>conductor/screen 1200 V                                   |
| <b>Min. bending radius<br/>continuous flexing:</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> up to +80°C<br><i>static:</i> -30/+70°C<br><i>flexing:</i> -5/+70°C |
| <b>Burning characteristics:</b>                    | flame retardant and self-extinguishing<br>acc. to UL FT1, 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,<br>hydraulic liquids etc.                                |
| <b>Absence of<br/>harmful substances:</b>          | acc. to RoHS directive of the European Union<br>see page N/28                                     |

| item no.                                  | no. of conductors | nominal outer-ø<br>inch | mm   | cable weight<br>≈ lbs/mft |
|---|-------------------|-------------------------|------|---------------------------|
| ▶ 26 AWG (≈ 18/38) • 0.14 mm <sup>2</sup> |                   |                         |      |                           |
| 07862602                                  | 2                 | 0.220                   | 5,0  | 26                        |
| 07862603                                  | 3                 | 0.228                   | 5,2  | 30                        |
| 07862604                                  | 4                 | 0.240                   | 5,6  | 32                        |
| 07862605                                  | 5                 | 0.256                   | 6,0  | 38                        |
| 07862607                                  | 7                 | 0.287                   | 6,8  | 46                        |
| 07862610                                  | 10                | 0.331                   | 7,7  | 60                        |
| 07862614                                  | 14                | 0.350                   | 8,9  | 73                        |
| 07862618                                  | 18                | 0.382                   | 9,1  | 87                        |
| 07862625                                  | 25                | 0.441                   | 11,2 | 109                       |

| item no.                                  | no. of conductors | nominal outer-ø<br>inch | mm   | cable weight<br>≈ lbs/mft |
|---|-------------------|-------------------------|------|---------------------------|
| ▶ 24 AWG (≈ 14/34) • 0.25 mm <sup>2</sup> |                   |                         |      |                           |
| 07862402                                  | 2                 | 0.228                   | 5,3  | 32                        |
| 07862403                                  | 3                 | 0.240                   | 5,6  | 34                        |
| 07862404                                  | 4                 | 0.256                   | 5,9  | 38                        |
| 07862405                                  | 5                 | 0.272                   | 6,4  | 44                        |
| 07862407                                  | 7                 | 0.315                   | 8,1  | 62                        |
| 07862410                                  | 10                | 0.354                   | 9,0  | 74                        |
| 07862414                                  | 14                | 0.378                   | 9,6  | 89                        |
| 07862418                                  | 18                | 0.413                   | 9,8  | 106                       |
| 07862425                                  | 25                | 0.476                   | 12,1 | 136                       |

| item no.                                 | no. of conductors | nominal outer-ø<br>inch | mm   | cable weight<br>≈ lbs/mft |
|--|-------------------|-------------------------|------|---------------------------|
| ▶ 22 AWG (≈ 7/30) • 0.34 mm <sup>2</sup> |                   |                         |      |                           |
| 07862202                                 | 2                 | 0.240                   | 5,5  | 34                        |
| 07862203                                 | 3                 | 0.248                   | 5,8  | 36                        |
| 07862204                                 | 4                 | 0.264                   | 6,2  | 42                        |
| 07862205                                 | 5                 | 0.283                   | 6,6  | 49                        |
| 07862207                                 | 7                 | 0.327                   | 7,6  | 69                        |
| 07862210                                 | 10                | 0.370                   | 9,4  | 82                        |
| 07862214                                 | 14                | 0.394                   | 10,0 | 103                       |
| 07862218                                 | 18                | 0.433                   | 10,5 | 124                       |
| 07862225                                 | 25                | 0.500                   | 12,7 | 155                       |

Other dimensions and colors are possible on request.

