

# Continuous Flex

## S 960 CY red

Shielded continuous flex control cable for small bending radius with red conductors



90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2 CE



Marking for S 960 CY red 07851607

SAB BRÖCKSKES · D-VIERSEN · 07850715 7 x 1.5 mm<sup>2</sup> S 960 CY red 16 AWG/7c 07851607

AWM Style 2587 90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2 CE

### Construction:

|                         |  |
|-------------------------|--|
| <b>Conductor:</b>       | bare copper strands<br>acc. to IEC 60228, VDE 0295, class 6  |
| <b>Insulation:</b>      | PVC, Tl2<br>acc. to EN 50363-3 + VDE 0207-363-3  |
| <b>Color code:</b>      | red conductors with consecutive numbers<br>acc. to EN 50334 + VDE 0293-334,<br>green/yellow ground from 3 conductors |
| <b>Stranding:</b>       | specially adjusted layering with<br>non-woven tape over each layer   |
| <b>Inner jacket:</b>    | PVC, TM2<br>acc. to EN 50363-3 + VDE 0207-363-3  |
| <b>Shielding:</b>       | tinned copper braiding   |
| <b>Wrapping:</b>        | non-woven tape   |
| <b>Jacket material:</b> | PVC, TM2<br>acc. to EN 50363-3 + VDE 0207-363-3  |
| <b>Jacket color:</b>    | black (RAL 9005)   |

### Technical data:

|  |  |                                 |
|--|--|---------------------------------|
| <b>Nominal voltage:</b>  | Uo/U 300/500 V   |                                 |
| <b>Voltage UL/CSA:</b>   | 600 V  |                                 |
| <b>Testing voltage:</b>  | conductor/conductor: 2000 V<br>conductor/shielding: 2000 V   |                                 |
| <b>Min. bending radius:</b><br><i>continuously flexing:</i>    | 7.5 x O.D.   |                                 |
| <b>Radiation resistance:</b>                                   | 8 x 10 <sup>7</sup> cJ/kg  |                                 |
| <b>Temperature range:</b><br><i>static:</i><br><i>flexing:</i> | DIN VDE<br>-40/+70°C   | UL/CSA: up to +90°C<br>+5/+70°C |
| <b>Burning characteristics:</b>                                | flame retardant and self-extinguishing<br>acc. to IEC 60332-1-2 + VDE 0482-332-1-2,<br>UL VW-1, CSA FT1, FT2 |                                 |
| <b>Oil resistance:</b>   | acc. to our internal standard, see page O/29   |                                 |
| <b>Approvals:</b>  | UR AWM, CSA AWM, CE, EAC, RoHS   |                                 |
| <b>Absence of harmful substances:</b>                          | acc. to RoHS directive of the European Union<br>see page O/30  |                                 |

B  
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### Outstanding features:



- very good EMC characteristics
- very good flexibility
- small bending radius
- UV resistant jacket

| 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> |                                |                      |      |                       |
| 07852002  | 2                              | 0.311                | 7.9  | 53                    |
| 07852003  | 3                              | 0.323                | 8.2  | 61                    |
| 07852004  | 4                              | 0.343                | 8.7  | 70                    |
| 07852005  | 5                              | 0.370                | 9.4  | 83                    |
| 07852007  | 7                              | 0.421                | 10.7 | 110                   |
| 07852012  | 12                             | 0.516                | 13.1 | 163                   |
| 07852018  | 18                             | 0.594                | 15.1 | 226                   |
| 07852025  | 25                             | 0.697                | 17.7 | 296                   |
| <b>▶ 19 AWG (≈ 42/34) ▪ 0.75 mm<sup>2</sup></b> |                                |                      |      |                       |
| 07851902  | 2                              | 0.327                | 8.3  | 60                    |
| 07851903  | 3                              | 0.343                | 8.7  | 69                    |
| 07851904  | 4                              | 0.366                | 9.3  | 81                    |
| 07851905  | 5                              | 0.394                | 10.0 | 95                    |
| 07851907  | 7                              | 0.457                | 11.6 | 126                   |
| 07851912  | 12                             | 0.551                | 14.0 | 185                   |
| 07851918  | 18                             | 0.638                | 16.2 | 261                   |
| 07851925  | 25                             | 0.764                | 19.4 | 350                   |
| <b>▶ 18 AWG (≈ 56/34) ▪ 1.00 mm<sup>2</sup></b> |                                |                      |      |                       |
| 07851802  | 2                              | 0.339                | 8.6  | 66                    |
| 07851803  | 3                              | 0.350                | 8.9  | 75                    |
| 07851804  | 4                              | 0.374                | 9.5  | 88                    |
| 07851805  | 5                              | 0.406                | 10.3 | 105                   |
| 07851807  | 7                              | 0.476                | 12.1 | 144                   |
| 07851812  | 12                             | 0.579                | 14.7 | 222                   |
| 07851818  | 18                             | 0.665                | 16.9 | 305                   |
| 07851825  | 25                             | 0.791                | 20.1 | 404                   |
| 07851836  | 36                             | 0.890                | 22.6 | 574                   |

| item no.   | no. of conductors incl. ground | nominal outer-ø inch | mm   | cable weight ≈lbs/mft |
|--|--------------------------------|----------------------|------|-----------------------|
| <b>▶ 16 AWG (≈ 84/34) ▪ 1.50 mm<sup>2</sup></b>  |                                |                      |      |                       |
| 07851602   | 2                              | 0.366                | 9.3  | 79                    |
| 07851603   | 3                              | 0.382                | 9.7  | 92                    |
| 07851604   | 4                              | 0.409                | 10.4 | 110                   |
| 07851605   | 5                              | 0.453                | 11.5 | 140                   |
| 07851607   | 7                              | 0.531                | 13.5 | 192                   |
| 07851612   | 12                             | 0.638                | 16.2 | 282                   |
| 07851618   | 18                             | 0.744                | 18.9 | 394                   |
| 07851625   | 25                             | 0.886                | 22.5 | 530                   |
| <b>▶ 14 AWG (≈ 140/34) ▪ 2.50 mm<sup>2</sup></b> |                                |                      |      |                       |
| 07851402   | 2                              | 0.449                | 11.4 | 122                   |
| 07851403   | 3                              | 0.472                | 12.0 | 147                   |
| 07851404   | 4                              | 0.516                | 13.1 | 179                   |
| 07851405   | 5                              | 0.571                | 14.5 | 229                   |
| 07851407   | 7                              | 0.622                | 15.8 | 294                   |
| 07851412   | 12                             | 0.803                | 20.4 | 438                   |
| 07851418   | 18                             | 0.933                | 23.7 | 610                   |
| 07851425   | 25                             | 1.110                | 28.2 | 815                   |
| <b>▶ 12 AWG (≈ 224/34) ▪ 4.00 mm<sup>2</sup></b> |                                |                      |      |                       |
| 07851203   | 3                              | 0.539                | 13.7 | 202                   |
| 07851204   | 4                              | 0.575                | 14.6 | 251                   |
| 07851205   | 5                              | 0.630                | 16.0 | 304                   |
| 07851207   | 7                              | 0.760                | 19.3 | 440                   |
| <b>▶ 10 AWG (≈ 186/32) ▪ 6.00 mm<sup>2</sup></b> |                                |                      |      |                       |
| 07851003   | 3                              | 0.638                | 16.2 | 288                   |
| 07851004   | 4                              | 0.685                | 17.4 | 347                   |
| 07851005   | 5                              | 0.760                | 19.3 | 416                   |

| item no.  | no. of conductors incl. ground | nominal outer-ø inch | mm   | cable weight ≈lbs/mft |
|---|--------------------------------|----------------------|------|-----------------------|
| <b>▶ 8 AWG (≈ 320/32) ▪ 10.00 mm<sup>2</sup></b>  |                                |                      |      |                       |
| 07850804  | 4                              | 0.835                | 21.2 | 531                   |
| 07850805  | 5                              | 0.925                | 23.5 | 644                   |
| <b>▶ 6 AWG (≈ 504/32) ▪ 16.00 mm<sup>2</sup></b>  |                                |                      |      |                       |
| 07850604  | 4                              | 0.980                | 24.9 | 734                   |
| 07850605  | 5                              | 1.079                | 27.4 | 902                   |
| <b>▶ 4 AWG (≈ 760/32) ▪ 25.00 mm<sup>2</sup></b>  |                                |                      |      |                       |
| 07850404  | 4                              | 1.165                | 29.6 | 1124                  |
| 07850405  | 5                              | 1.291                | 32.8 | 1329                  |
| <b>▶ 2 AWG (≈ 1083/32) ▪ 35.00 mm<sup>2</sup></b> |                                |                      |      |                       |
| 07850204  | 4                              | 1.303                | 33.1 | 1418                  |
| <b>▶ 1 AWG (≈ 703/28) ▪ 50.00 mm<sup>2</sup></b>  |                                |                      |      |                       |
| 07850104  | 4                              | 1.567                | 39.8 | 2022                  |

Other dimensions and colors are available on request