also available with black and blue conductors and gray jacket

RoHS

# S 960 CY

**Very flexible shielded continuous flex control cable for small bending radius**


Marking for S 960 CY 07851607: SAB BRÖCKSKES · D-VIERSEN ·
07850715 7 x 1,5 mm² S 960 CY 16 AWG/7c 07851607 AWM Style 2587 90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2

S 960 CY is a very flexible, shielded multi-conductor 90°C, 600 V cable designed for continuous flex applications. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The S 960 CY 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.

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## Construction:

| | |
|---|---|
| **Conductor:** | bare copper strands acc. to. IEC 60228, EN 60228, VDE 0295, class 6 |
| **Insulation:** | PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1 |
| **Color code:** | red conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors |
| **Stranding:** | specially adjusted layering with non-woven tape over each layer |
| **Inner jacket:** | PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1 |
| **Screen:** | tinned copper braiding |
| **Wrapping:** | non-woven tape |
| **Jacket material:** | PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1 |
| **Jacket color:** | black |

## Outstanding features:

- **very good EMC characteristics**
- **very good flexibility**
- **small bending radius**

## Technical data:

| | |
|---|---|
| **Nominal voltage:** | **DIN VDE:** Uo/U 300/500 V<br>**UL/CSA:** 600 V |
| **Testing voltage U:** | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2<br>conductor/screen 2000 V |
| **Min. bending radius** *continuous flexing:* | 7.5 x O.D. |
| **Radiation resistance:** | 8 x $10^7$ cJ/kg |
| **Temperature range** *static:* *flexing:* | **DIN VDE** **UL/CSA:** up to +90°C<br>-40/+70°C<br>+5/+70°C |
| **Burning characteristics:** | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2, UL VW-1, CSA FT1 and FT2 |
| **Oil resistance:** | acc. to our internal standard see page N/25 |
| **Absence of harmful substances:** | 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 |
|---|---|---|---|---|
| ► **20 AWG (33/34) • 0.50 mm²** | | | | |
| 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 |
| ► **19 AWG (42/34) • 0.75 mm²** | | | | |
| 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 |
| ► **18 AWG (56/34) • 1.00 mm²** | | | | |
| 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 | 405 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈ lbs/mft |
|---|---|---|---|---|
| ► **16 AWG (84/34) • 1.50 mm²** | | | | |
| 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 |
| ► **14 AWG (140/34) • 2.50 mm²** | | | | |
| 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 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈ lbs/mft |
|---|---|---|---|---|
| ► **12 AWG (224/34) • 4.00 mm²** | | | | |
| 07851203 | 3 | 0.539 | 13.7 | 202 |
| 07851204 | 4 | 0.575 | 14.6 | 251 |
| 07851205 | 5 | 0.630 | 16.0 | 304 |
| ► **10 AWG (192/32) • 6.00 mm²** | | | | |
| 07851003 | 3 | 0.638 | 16.2 | 288 |
| 07851004 | 4 | 0.685 | 17.4 | 347 |
| 07851005 | 5 | 0.760 | 19.3 | 416 |
| ► **8 AWG (320/32) • 10.00 mm²** | | | | |
| 07850804 | 4 | 0.835 | 21.2 | 532 |
| 07850805 | 5 | 0.925 | 23.5 | 644 |
| ► **6 AWG (512/32) • 16.00 mm²** | | | | |
| 07850604 | 4 | 0.980 | 24.9 | 734 |
| 07850605 | 5 | 1.079 | 27.4 | 902 |
| ► **4 AWG (798/32) • 25.00 mm²** | | | | |
| 07850404 | 4 | 1.165 | 29.6 | 1124 |
| 07850405 | 5 | 1.291 | 32.8 | 1329 |
| ► **2 AWG (1102/32) • 35.00 mm²** | | | | |
| 07850204 | 4 | 1.303 | 33.1 | 1418 |
| ► **1 AWG (703/28) • 50.00 mm²** | | | | |
| 07850104 | 4 | 1.567 | 39.8 | 2022 |

Other dimensions and colors are possible on request.