

also available
with red and blue
conductors
and gray jacket

CONTINUOUS FLEX CABLES



S 960 CY Very flexible shielded continuous flex control cable for small bending radius

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



Marking for S 960 CY 07541607: SAB BRÖCKSKES · D-VIERSEN ·

07540715 7 x 1,5 mm² S 960 CY 16 AWG/7c 07541607 U AWM Style 2587 90°C 600V CSA AWM I/II A/B 90°C 600V FT1 FT2 C

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.

B
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Construction:

| | |
|-------------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6 |
| Insulation: | PVC, Tl2 acc. to DIN VDE 0281 part 1 + HD 21.1 |
| Color code: | black 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 |

Technical data:

| | |
|--|---|
| Nominal voltage: | DIN VDE: U ₀ /U 300/500 V UL/CSA: 600 V |
| Testing voltage U: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 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: | DIN VDE -40/+70°C UL/CSA: up to +90°C |
| flexing: | +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/27 |
| Absence of harmful substances: | acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/28 |

Outstanding features:

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

| item no. | no. of conductors incl. ground | nominal outer-ø inch | mm | cable weight ≈ lbs/mft |
|---|--------------------------------|----------------------|------|------------------------|
| • 20 AWG (33/34) • 0.50 mm ² | | | | |
| 07542002 | 2 | 0.311 | 7.9 | 53 |
| 07542003 | 3 | 0.323 | 8.2 | 61 |
| 07542004 | 4 | 0.343 | 8.7 | 70 |
| 07542005 | 5 | 0.370 | 9.4 | 83 |
| 07542007 | 7 | 0.421 | 10.7 | 110 |
| 07542012 | 12 | 0.516 | 13.1 | 163 |
| 07542018 | 18 | 0.594 | 15.1 | 226 |
| 07542025 | 25 | 0.697 | 17.7 | 296 |
| • 19 AWG (42/34) • 0.75 mm ² | | | | |
| 07541902 | 2 | 0.327 | 8.3 | 60 |
| 07541903 | 3 | 0.343 | 8.7 | 69 |
| 07541904 | 4 | 0.366 | 9.3 | 81 |
| 07541905 | 5 | 0.394 | 10.0 | 95 |
| 07541907 | 7 | 0.457 | 11.6 | 126 |
| 07541912 | 12 | 0.551 | 14.0 | 185 |
| 07541918 | 18 | 0.638 | 16.2 | 261 |
| 07541925 | 25 | 0.764 | 19.4 | 350 |
| • 18 AWG (56/34) • 1.00 mm ² | | | | |
| 07541802 | 2 | 0.339 | 8.6 | 66 |
| 07541803 | 3 | 0.350 | 8.9 | 75 |
| 07541804 | 4 | 0.374 | 9.5 | 88 |
| 07541805 | 5 | 0.406 | 10.3 | 105 |
| 07541807 | 7 | 0.476 | 12.1 | 144 |
| 07541812 | 12 | 0.579 | 14.7 | 222 |
| 07541818 | 18 | 0.665 | 16.9 | 305 |
| 07541825 | 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 mm ² | | | | |
| 07541602 | 2 | 0.366 | 9.3 | 79 |
| 07541603 | 3 | 0.382 | 9.7 | 92 |
| 07541604 | 4 | 0.409 | 10.4 | 110 |
| 07541605 | 5 | 0.453 | 11.5 | 140 |
| 07541607 | 7 | 0.531 | 13.5 | 192 |
| 07541612 | 12 | 0.638 | 16.2 | 282 |
| 07541618 | 18 | 0.744 | 18.9 | 394 |
| 07541625 | 25 | 0.886 | 22.5 | 530 |
| • 14 AWG (140/34) • 2.50 mm ² | | | | |
| 07541402 | 2 | 0.449 | 11.4 | 122 |
| 07541403 | 3 | 0.472 | 12.0 | 147 |
| 07541404 | 4 | 0.516 | 13.1 | 179 |
| 07541405 | 5 | 0.571 | 14.5 | 229 |
| 07541407 | 7 | 0.622 | 15.8 | 294 |
| 07541412 | 12 | 0.803 | 20.4 | 438 |
| 07541418 | 18 | 0.933 | 23.7 | 610 |
| 07541425 | 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 mm ² | | | | |
| 07541203 | 3 | 0.539 | 13.7 | 202 |
| 07541204 | 4 | 0.575 | 14.6 | 251 |
| 07541205 | 5 | 0.630 | 16.0 | 304 |
| • 10 AWG (192/32) • 6.00 mm ² | | | | |
| 07541003 | 3 | 0.638 | 16.2 | 288 |
| 07541004 | 4 | 0.685 | 17.4 | 347 |
| 07541005 | 5 | 0.760 | 19.3 | 416 |
| • 8 AWG (320/32) • 10.00 mm ² | | | | |
| 07540804 | 4 | 0.835 | 21.2 | 532 |
| 07540805 | 5 | 0.925 | 23.5 | 644 |
| • 6 AWG (512/32) • 16.00 mm ² | | | | |
| 07540604 | 4 | 0.980 | 24.9 | 734 |
| 07540605 | 5 | 1.079 | 27.4 | 902 |
| • 4 AWG (798/32) • 25.00 mm ² | | | | |
| 07540404 | 4 | 1.165 | 29.6 | 1124 |
| 07540405 | 5 | 1.291 | 32.8 | 1329 |
| • 2 AWG (1102/32) • 35.00 mm ² | | | | |
| 07540204 | 4 | 1.303 | 33.1 | 1418 |
| • 1 AWG (703/28) • 50.00 mm ² | | | | |
| 07540104 | 4 | 1.567 | 39.8 | 2022 |

Other dimensions and colors are possible on request.

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