

CONTINUOUS FLEX CABLES

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



SD 960 CY Very flexible shielded continuous flex data cable for small bending radius



25c 07852425 AWM Style 21083 80°C 300V

Marking for SD 960 CY 07852425:

SAB BRÖCKSKES · D-VIERSEN · 07852502 25 x 0,25 mm² SD 960 CY 24 AWG/25c 07852425 AWM Style 21083 80°C 300V

SD 960 CY is a very flexible, shielded multi-conductor 80°C, 300 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 SD 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, extra fine wires |
| Insulation: | PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1 |
| Color code: | acc. to color code US 2 see page N/25 |
| Stranding: | specially adjusted layering with non-woven tape over each layer |
| Wrapping: | non-woven tape |
| 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:

| | |
|--|--|
| Peak operating voltage: | DIN VDE: max. 350 V UL: 300 V |
| Testing voltage U: | 1500 V acc. to DIN VDE 0472 part 509 conductor/screen 1200 V |
| Min. bending radius continuous flexing: | 7.5 x O.D. |
| Radiation resistance: | 8 x 10 ⁷ cJ/kg |
| Temperature range static: | DIN VDE -30/+70°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 |
| 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 | nominal outer-Ø mm | cable weight ≈ lbs/mft |
|---|--------------------------------|----------------------|--------------------|------------------------|
| ▶ 26 AWG (18/38) • 0.14 mm² | | | | |
| 07852602 | 2 | 0.177 | 4.5 | 17 |
| 07852603 | 3 | 0.185 | 4.7 | 20 |
| 07852604 | 4 | 0.205 | 5.2 | 24 |
| 07852605 | 5 | 0.220 | 5.6 | 28 |
| 07852607 | 7 | 0.252 | 6.4 | 38 |
| 07852610 | 10 | 0.295 | 7.5 | 45 |
| 07852614 | 14 | 0.335 | 8.5 | 60 |
| 07852618 | 18 | 0.366 | 9.3 | 73 |
| 07852625 | 25 | 0.433 | 11.0 | 100 |

| item no. | no. of conductors incl. ground | nominal outer-Ø inch | nominal outer-Ø mm | cable weight ≈ lbs/mft |
|---|--------------------------------|----------------------|--------------------|------------------------|
| ▶ 24 AWG (32/38) • 0.25 mm² | | | | |
| 07852402 | 2 | 0.193 | 4.9 | 20 |
| 07852403 | 3 | 0.205 | 5.2 | 24 |
| 07852404 | 4 | 0.217 | 5.5 | 28 |
| 07852405 | 5 | 0.244 | 6.2 | 36 |
| 07852407 | 7 | 0.280 | 7.1 | 43 |
| 07852410 | 10 | 0.335 | 8.5 | 60 |
| 07852414 | 14 | 0.362 | 9.2 | 75 |
| 07852418 | 18 | 0.398 | 10.1 | 92 |
| 07852425 | 25 | 0.492 | 12.5 | 134 |

| item no. | no. of conductors incl. ground | nominal outer-Ø inch | nominal outer-Ø mm | cable weight ≈ lbs/mft |
|---|--------------------------------|----------------------|--------------------|------------------------|
| ▶ 22 AWG (42/38) • 0.34 mm² | | | | |
| 07852202 | 2 | 0.201 | 5.1 | 22 |
| 07852203 | 3 | 0.213 | 5.4 | 26 |
| 07852204 | 4 | 0.228 | 5.8 | 31 |
| 07852205 | 5 | 0.252 | 6.4 | 40 |
| 07852207 | 7 | 0.291 | 7.4 | 49 |
| 07852210 | 10 | 0.346 | 8.8 | 69 |
| 07852214 | 14 | 0.378 | 9.6 | 86 |
| 07852218 | 18 | 0.425 | 10.8 | 114 |
| 07852225 | 25 | 0.512 | 13.0 | 153 |

Other dimensions and colors are possible on request.

also available with black and blue conductors and gray jacket

CONTINUOUS FLEX CABLES



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 CE

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, Tl2 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 |

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 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 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.

