

Fuel-Oil
acc. to CSA C22.2
No. 210-05

CONTINUOUS FLEX CABLES



S 965 CY Very flexible shielded continuous flex control cable for small bending radius



Marking for S 965 CY 07281607: SAB BRÖCKSKES · D-VIERSEN ·
07280715 7 x 1,5 mm² S 965 CY 16 AWG/7c 07281607 AWM Style 2587 90°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2 CE

S 965 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 965 CY is designed for use on 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 TM5 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 flexing:	DIN VDE -40/+70°C UL/CSA: up to +90°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:	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1. Fuel-Oil acc. to CSA C22.2 No. 210-05
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25

Outstanding features:

- very good EMC characteristics
- very good flexibility
- small bending radius
- oil resistant
- Fuel-Oil acc. to CSA C22.2 No. 210-05

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (33/34) • 0.50 mm² 07282002 2 0.307 7.8 52 07282003 3 0.319 8.1 60 07282004 4 0.339 8.6 69 07282005 5 0.366 9.3 82 07282007 7 0.417 10.6 110 07282012 12 0.512 13.0 161 07282018 18 0.591 15.0 225 07282025 25 0.693 17.6 294					▶ 16 AWG (84/34) • 1.50 mm² 07281602 2 0.362 9.2 79 07281603 3 0.378 9.6 91 07281604 4 0.406 10.3 109 07281605 5 0.445 11.3 138 07281607 7 0.520 13.2 190 07281612 12 0.634 16.1 280 07281618 18 0.728 18.5 385 07281625 25 0.882 22.4 528					▶ 12 AWG (224/34) • 4.00 mm² 07281203 3 0.535 13.6 201 07281204 4 0.571 14.5 250 07281205 5 0.626 15.9 303 ▶ 10 AWG (192/32) • 6.00 mm² 07281003 3 0.630 16.0 288 07281004 4 0.681 17.3 351 07281005 5 0.752 19.1 417 ▶ 8 AWG (320/32) • 10.00 mm² 07280804 4 0.835 21.2 530 07280805 5 0.921 23.4 642 ▶ 6 AWG (512/32) • 16.00 mm² 07280604 4 0.976 24.8 699 07280605 5 1.075 27.3 900 ▶ 4 AWG (798/32) • 25.00 mm² 07280404 4 1.161 29.5 1122 07280405 5 1.272 32.3 1308 ▶ 2 AWG (1102/32) • 35.00 mm² 07280204 4 1.299 33.0 1429 ▶ 1 AWG (703/28) • 50.00 mm² 07280104 4 1.508 38.3 1940				
▶ 19 AWG (42/34) • 0.75 mm² 07281902 2 0.323 8.2 59 07281903 3 0.339 8.6 68 07281904 4 0.362 9.2 79 07281905 5 0.390 9.9 93 07281907 7 0.453 11.5 124 07281912 12 0.547 13.9 183 07281918 18 0.634 16.1 259 07281925 25 0.760 19.3 348					▶ 14 AWG (140/34) • 2.50 mm² 07281402 2 0.445 11.3 120 07281403 3 0.469 11.9 146 07281404 4 0.512 13.0 177 07281405 5 0.567 14.4 228 07281407 7 0.618 15.7 292 07281412 12 0.799 20.3 437 07281418 18 0.929 23.6 608 07281425 25 1.098 27.9 804					▶ 10 AWG (192/32) • 6.00 mm² 07281003 3 0.630 16.0 288 07281004 4 0.681 17.3 351 07281005 5 0.752 19.1 417 ▶ 8 AWG (320/32) • 10.00 mm² 07280804 4 0.835 21.2 530 07280805 5 0.921 23.4 642 ▶ 6 AWG (512/32) • 16.00 mm² 07280604 4 0.976 24.8 699 07280605 5 1.075 27.3 900 ▶ 4 AWG (798/32) • 25.00 mm² 07280404 4 1.161 29.5 1122 07280405 5 1.272 32.3 1308 ▶ 2 AWG (1102/32) • 35.00 mm² 07280204 4 1.299 33.0 1429 ▶ 1 AWG (703/28) • 50.00 mm² 07280104 4 1.508 38.3 1940				

Other dimensions and colors are possible on request.

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Web site: www.sabcable.com