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.

B
18

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 **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** **UL/CSA:** up to +90°C -40/+70°C +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.