also available with red and blue conductors and gray jacket

RoHS

S 960 CY

Shielded continuous flex control cable for small bending radius with black conductors

Marking for S 960 CY 07541607: SAB BRÖCKSKES · D-VIERSEN · 07540715 7 G 1.5 mm² S 960 CY 16 AWG/7c 07541607 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 15

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:	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:** 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** -40/+70°C +5/+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:	acc. to our internal standard see page O/29
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:

- **very good EMC characteristics**
- **very good flexibility**
- **small bending radius**
- **UV resistant jacket**
- **NFPA 79-2018 compliant, chapter 12.9**

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 20 AWG (≈ 28/34) • 0.50 mm²				
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 mm²				
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 mm²				
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
07541836	36	0.890	22.6	574

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 16 AWG (≈ 84/34) • 1.50 mm²				
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
07541630	30	0.928	23.6	630
► 14 AWG (≈ 140/34) • 2.50 mm²				
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
► 12 AWG (≈ 224/34) • 4.00 mm²				
07541203	3	0.539	13.7	202
07541204	4	0.575	14.6	251
07541205	5	0.630	16.0	304
07541207	7	0.760	19.3	440
► 10 AWG (≈ 186/32) • 6.00 mm²				
07541003	3	0.638	16.2	288
07541004	4	0.685	17.4	347
07541005	5	0.760	19.3	416

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 8 AWG (≈ 320/32) • 10.00 mm²				
07540804	4	0.835	21.2	532
07540805	5	0.925	23.5	644
► 6 AWG (≈ 504/32) • 16.00 mm²				
07540604	4	0.980	24.9	734
07540605	5	1.079	27.4	902
► 4 AWG (≈ 760/32) • 25.00 mm²				
07540404	4	1.165	29.6	1124
07540405	5	1.291	32.8	1329
► 2 AWG (≈ 1083/32) • 35.00 mm²				
07540204	4	1.303	33.1	1418
► 1 AWG (≈ 703/28) • 50.00 mm²				
07540104	4	1.567	39.8	2022

Other dimensions and colors are possible on request.