

CONTINUOUS FLEX CABLES

also available with orange jacket



S 960 CP Very flexible continuous flex polyurethane control cable for small bending radius



Marking for S 960 CP 07861612: SAB BRÖCKSKES · D-VIERSEN ·

07861215 12 x 1,5 mm² S 960 CP 16 AWG/12c 07861612 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

S 960 CP is a very flexible, shielded multi-conductor 80°C, 600 V cable designed for continuous flex applications. The special PUR jacket passes not only the stringent VDE test 0282 part 10 and HD 22.10 oil test providing the best oil resistance, but it also provides an excellent chemical and abrasion resistance. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The S 960 CP 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 in harsh environments.

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Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC, T12 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:	special PVC
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PU acc. to UL 758 with mat surface
Jacket color:	gray

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 <i>continuous flexing:</i>	7.5 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range <i>static:</i> <i>flexing:</i>	DIN VDE UL/CSA: up to +80°C -40/+70°C +5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to UL VW-1, CSA FT1 and FT2
Oil resistance:	very good - oil rating 60°C acc. to UL 758
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
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
- high abrasion resistance
- very good flexibility

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 20 AWG (33/34) • 0.50 mm²				
07862002	2	0.331	8.4	58
07862003	3	0.343	8.7	65
07862004	4	0.358	9.1	73
07862005	5	0.382	9.7	84
07862007	7	0.425	10.8	108
07862012	12	0.508	12.9	155
07862018	18	0.575	14.6	211
07862025	25	0.665	16.9	270
07862030	30	0.665	16.9	281
07862036	36	0.709	18.0	306
▶ 19 AWG (42/34) • 0.75 mm²				
07861902	2	0.346	8.8	65
07861903	3	0.358	9.1	71
07861904	4	0.378	9.6	81
07861905	5	0.402	10.2	94
07861907	7	0.457	11.6	122
07861912	12	0.539	13.7	175
07861918	18	0.626	15.9	248
07861925	25	0.732	18.6	321
07861930	30	0.736	18.7	375
07861936	36	0.799	20.3	411
▶ 18 AWG (56/34) • 1.00 mm²				
07861802	2	0.354	9.0	70
07861803	3	0.366	9.3	77
07861804	4	0.386	9.8	89
07861805	5	0.413	10.5	104
07861807	7	0.472	12.0	138

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG (56/34) • 1.00 mm²				
07861812	12	0.563	14.3	209
07861818	18	0.646	16.4	288
07861825	25	0.756	19.2	372
07861830	30	0.764	19.4	432
07861836	36	0.886	22.5	530
▶ 16 AWG (84/34) • 1.50 mm²				
07861602	2	0.378	9.6	82
07861603	3	0.390	9.9	93
07861604	4	0.417	10.6	110
07861605	5	0.453	11.5	136
07861607	7	0.520	13.2	177
07861612	12	0.622	15.8	268
07861618	18	0.705	17.9	363
07861625	25	0.886	22.5	517
07861630	30	0.894	22.7	599
07861636	36	0.969	24.6	680
▶ 14 AWG (140/34) • 2.50 mm²				
07861402	2	0.449	11.4	121
07861403	3	0.469	11.9	142
07861404	4	0.508	12.9	171
07861405	5	0.555	14.1	216
07861407	7	0.646	16.4	286
07861412	12	0.768	19.5	398
07861418	18	0.949	24.1	636
07861425	25	1.106	28.1	828

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 12 AWG (224/34) • 4.00 mm²				
07861203	3	0.512	13.0	185
07861204	4	0.559	14.2	240
07861205	5	0.618	15.7	296
07861207	7	0.709	18.0	356
▶ 10 AWG (192/32) • 6.00 mm²				
07861003	3	0.626	15.9	276
07861004	4	0.665	16.9	325
07861005	5	0.728	18.5	393
07861007	7	0.917	23.3	560
▶ 8 AWG (320/32) • 10.00 mm²				
07860803	3	0.760	19.3	430
07860804	4	0.795	20.2	495
07860805	5	0.925	23.5	632
▶ 6 AWG (512/32) • 16.00 mm²				
07860603	3	0.949	24.1	606
07860604	4	0.980	24.9	776
07860605	5	1.063	27.0	872
▶ 4 AWG (798/32) • 25.00 mm²				
07860404	4	1.138	28.9	1062
07860405	5	1.248	31.7	1261
▶ 2 AWG (1102/32) • 35.00 mm²				
07860204	4	1.276	32.4	1365

Other dimensions and colors are possible on request.

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