

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

Outstanding features:

- very good EMC characteristics
- high abrasion resistance
- very good flexibility

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:	5 x 10 ⁷ cJ/kg
Temperature range static:	DIN VDE UL/CSA: up to +80°C
flexing:	-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:	very good - oil rating 60°C acc. to UL 758
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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 (≈ 28/34) • 0.50 mm²					▶ 18 AWG (≈ 56/34) • 1.00 mm²					▶ 12 AWG (≈ 224/34) • 4.00 mm²				
07862002	2	0.331	8.4	58	07861812	12	0.563	14.3	209	07861203	3	0.512	13.0	185
07862003	3	0.343	8.7	65	07861818	18	0.646	16.4	288	07861204	4	0.559	14.2	240
07862004	4	0.358	9.1	73	07861825	25	0.756	19.2	372	07861205	5	0.618	15.7	296
07862005	5	0.382	9.7	84	07861830	30	0.764	19.4	432	07861207	7	0.709	18.0	356
07862007	7	0.425	10.8	108	07861836	36	0.886	22.5	530	▶ 10 AWG (≈ 186/32) • 6.00 mm²				
07862012	12	0.508	12.9	155	▶ 16 AWG (≈ 84/34) • 1.50 mm²					07861003	3	0.626	15.9	276
07862018	18	0.575	14.6	211	07861602	2	0.378	9.6	82	07861004	4	0.665	16.9	325
07862025	25	0.665	16.9	270	07861603	3	0.390	9.9	93	07861005	5	0.728	18.5	393
07862030	30	0.665	16.9	281	07861604	4	0.417	10.6	110	07861007	7	0.917	23.3	560
07862036	36	0.709	18.0	306	07861605	5	0.453	11.5	136	▶ 8 AWG (≈ 320/32) • 10.00 mm²				
▶ 19 AWG (≈ 42/34) • 0.75 mm²					07861607	7	0.520	13.2	177	07860803	3	0.760	19.3	430
07861902	2	0.346	8.8	65	07861612	12	0.622	15.8	268	07860804	4	0.795	20.2	495
07861903	3	0.358	9.1	71	07861618	18	0.705	17.9	363	07860805	5	0.925	23.5	632
07861904	4	0.378	9.6	81	07861625	25	0.886	22.5	517	▶ 6 AWG (≈ 504/32) • 16.00 mm²				
07861905	5	0.402	10.2	94	07861630	30	0.894	22.7	599	07860603	3	0.949	24.1	606
07861907	7	0.457	11.6	122	07861636	36	0.969	24.6	680	07860604	4	0.980	24.9	776
07861912	12	0.539	13.7	175	▶ 14 AWG (≈ 140/34) • 2.50 mm²					07860605	5	1.063	27.0	872
07861918	18	0.626	15.9	248	07861402	2	0.449	11.4	121	▶ 4 AWG (≈ 760/32) • 25.00 mm²				
07861925	25	0.732	18.6	321	07861403	3	0.469	11.9	142	07860404	4	1.138	28.9	1062
07861930	30	0.736	18.7	375	07861404	4	0.508	12.9	171	07860405	5	1.248	31.7	1261
07861936	36	0.799	20.3	411	07861405	5	0.555	14.1	216	▶ 2 AWG (≈ 1083/32) • 35.00 mm²				
▶ 18 AWG (≈ 56/34) • 1.00 mm²					07861407	7	0.646	16.4	286	07860204	4	1.276	32.4	1365
07861802	2	0.354	9.0	70	07861412	12	0.768	19.5	398	Other dimensions and colors are possible on request.				
07861803	3	0.366	9.3	77	07861418	18	0.949	24.1	636					
07861804	4	0.386	9.8	89	07861425	25	1.106	28.1	828					
07861805	5	0.413	10.5	104										
07861807	7	0.472	12.0	138										

