

CONTINUOUS FLEX CABLES

also available
with blue and red
conductors
and orange jacket

S 960 P Very flexible continuous flex polyurethane control cable
for small bending radius with black conductors



Marking for S 960 P 07761607: SAB BRÖCKSKES · D-VIERSEN ·
07760715 7 x 1,5 mm² S 960 P 16 AWG/7c 07761607 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

S 960 P is a very flexible multi-conductor 80°C, 600 V cable designed for continuous flex applications. The specially 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 excellent chemical and abrasion resistance. The S 960 P 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, 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
Jacket material:	PU acc. to UL 758 with mat surface
Jacket color:	gray

Outstanding features:

- ▶ very good oil resistant
- ▶ very good chemical resistance
- ▶ 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
Min. bending radius continuous flexing:	7.5 x O.D.
Radiation resistance:	5 x 10 ⁷ cJ/kg
Temperature range static: flexing:	DIN VDE UL/CSA: up to +80°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:	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 directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 28/34) • 0.50 mm²				
07762002	2	0.252	6.4	31
07762003	3	0.264	6.7	36
07762004	4	0.280	7.1	42
07762005	5	0.303	7.7	52
07762007	7	0.346	8.8	70
07762012	12	0.413	10.5	97
07762018	18	0.472	12.0	134
07762025	25	0.563	14.3	180
07762034	34	0.598	15.2	235
07762050	50	0.728	18.5	245
07762061	61	0.787	20.0	298
▶ 19 AWG (≈ 42/34) • 0.75 mm²				
07761902	2	0.268	6.8	37
07761903	3	0.280	7.1	42
07761904	4	0.299	7.6	50
07761905	5	0.323	8.2	60
07761907	7	0.374	9.5	81
07761912	12	0.445	11.3	115
07761918	18	0.516	13.1	161
07761925	25	0.622	15.8	221
07761934	34	0.689	17.5	225
07761950	50	0.787	20.0	401
07761961	61	0.925	23.5	525
▶ 18 AWG (≈ 56/34) • 1.00 mm²				
07761802	2	0.276	7.0	41
07761803	3	0.287	7.3	47
07761804	4	0.311	7.9	57
07761805	5	0.335	8.5	69
07761807	7	0.386	9.8	88

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 56/34) • 1.00 mm²				
07761812	12	0.461	11.7	136
07761818	18	0.535	13.6	200
07761825	25	0.646	16.4	263
07761834	34	0.709	18.0	350
07761850	50	0.878	22.3	527
07761861	61	0.961	24.4	648
▶ 16 AWG (≈ 84/34) • 1.50 mm²				
07761602	2	0.299	7.6	50
07761603	3	0.315	8.0	60
07761604	4	0.339	8.6	73
07761605	5	0.366	9.3	90
07761607	7	0.425	10.8	124
07761612	12	0.508	12.9	181
07761618	18	0.594	15.1	263
07761625	25	0.720	18.3	355
07761634	34	0.803	20.4	467
07761650	50	0.976	24.8	710
07761665	61	1.091	27.7	862
▶ 14 AWG (≈ 140/34) • 2.50 mm²				
07761402	2	0.362	9.2	74
07761403	3	0.382	9.7	91
07761404	4	0.413	10.5	113
07761405	5	0.453	11.5	136
07761407	7	0.531	13.5	181
07761412	12	0.654	16.6	293
07761418	18	0.783	19.9	428
07761425	25	1.000	25.4	620

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 12 AWG (≈ 224/34) • 4.00 mm²				
07761203	3	0.465	11.8	139
07761204	4	0.469	11.9	165
07761205	5	0.516	13.1	200
07761207	7	0.654	16.6	278
▶ 10 AWG (≈ 186/32) • 6.00 mm²				
07761003	3	0.528	13.4	203
07761004	4	0.571	14.5	247
07761005	5	0.630	16.0	307
▶ 8 AWG (≈ 320/32) • 10.00 mm²				
07760804	4	0.705	17.9	403
07760805	5	0.776	19.7	503
▶ 6 AWG (≈ 504/32) • 16.00 mm²				
07760604	4	0.823	20.9	575
07760605	5	0.953	24.2	734
▶ 4 AWG (≈ 760/32) • 25.00 mm²				
07760404	4	1.020	25.9	892
07760405	5	1.122	28.5	1089
▶ 2 AWG (≈ 1083/32) • 35.00 mm²				
07760204	4	1.150	29.2	1165
07760205	5	1.272	32.3	1420
▶ 1 AWG (≈ 703/28) • 50.00 mm²				
07760104	4	1.350	34.3	1659

Other dimensions and colors are possible on request.

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