

CONTINUOUS FLEX CABLES

S 90 Continuous flex polyurethane cable



Marking for S 90 07780715:
SAB BRÖCKSKES · D-VIERSEN · S 90 7 x 1,5 mm² CE

S 90 is a continuous flex cable with a polyurethane outer jacket that provides cost effective operation of machine tools requiring long service life in harsh environments. The polyurethane outer jacket provides excellent resistance to abrasion and mineral oils in continuous flex applications. Passes the stringent VDE test 0282 part 10 and HD 22.10 oil test.

B
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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
Jacket material:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- ▶ oil resistant
- ▶ improved abrasion resistance
- ▶ high tear resistance
- ▶ good chemical resistance
- ▶ increased efficiency

Technical data:

Nominal voltage:	U ₀ /U 300/500 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:	-40/+70 °C
flexing:	+5/+70 °C
Oil resistance:	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Flexibility:	very good
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	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	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				
07780205	2	0.209	5.3	22	07781210	12	0.433	11.0	128	07780240	2	0.402	10.2	97
07780305	3	0.220	5.6	27	07781810	18	0.504	12.8	185	07780340	3	0.425	10.8	128
07780405	4	0.236	6.0	32	07782510	25	0.618	15.7	257	07780440	4	0.457	11.6	160
07780505	5	0.256	6.5	39	07783610	36	0.709	18.0	368	07780540	5	0.508	12.9	205
07780705	7	0.299	7.6	54	07785010	50	0.827	21.0	492	07780740	7	0.598	15.2	286
07781205	12	0.362	9.2	77	07786510	65	0.933	23.7	647	07781240	12	0.744	18.9	442
07781805	18	0.437	11.1	118	▶ 16 AWG (≈ 84/34) • 1.50 mm²					▶ 10 AWG (≈ 186/32) • 6.00 mm²				
07782505	25	0.520	13.2	155	07780215	2	0.260	6.6	39	07780260	2	0.492	12.5	146
07783605	36	0.579	14.7	214	07780315	3	0.276	7.0	52	07780360	3	0.520	13.2	192
07785005	50	0.709	18.0	304	07780415	4	0.299	7.6	65	07780460	4	0.567	14.4	245
07786505	65	0.795	20.2	392	07780515	5	0.327	8.3	81	07780560	5	0.626	15.9	310
▶ 19 AWG (≈ 42/34) • 0.75 mm²					07780715	7	0.402	10.2	118	07780760	7	0.736	18.7	431
07780207	2	0.228	5.8	27	07781215	12	0.484	12.3	174	▶ 8 AWG (≈ 320/32) • 10.00 mm²				
07780307	3	0.240	6.1	34	07781815	18	0.567	14.4	255	07780361	3	0.626	15.9	280
07780407	4	0.260	6.6	41	07782515	25	0.709	18.0	358	07780461	4	0.681	17.3	383
07780507	5	0.283	7.2	51	07783615	36	0.791	20.1	501	07780561	5	0.752	19.1	487
07780707	7	0.335	8.5	71	07785015	50	0.941	23.9	686	▶ 6 AWG (≈ 504/34) • 16.00 mm²				
07781207	12	0.417	10.6	108	07786515	65	1.055	26.8	888	07780362	3	0.732	18.6	446
07781807	18	0.488	12.4	157	▶ 14 AWG (≈ 140/34) • 2.50 mm²					07780462	4	0.799	20.3	571
07782507	25	0.579	14.7	205	07780225	2	0.331	8.4	62	07780562	5	0.882	22.4	726
07783607	36	0.665	16.9	296	07780325	3	0.350	8.9	84	▶ 4 AWG (≈ 760/32) • 25.00 mm²				
07785007	50	0.791	20.1	405	07780425	4	0.398	10.1	110	07780463	4	0.949	24.1	838
07786507	65	0.890	22.6	523	07780525	5	0.437	11.1	135	07780563	5	1.051	26.7	1076
▶ 18 AWG (≈ 56/34) • 1.00 mm²					07780725	7	0.520	13.2	192	▶ 2 AWG (≈ 1083/32) • 35.00 mm²				
07780210	2	0.236	6.0	31	07781225	12	0.646	16.4	290	07780464	4	1.083	27.5	1119
07780310	3	0.248	6.3	40	07781825	18	0.776	19.7	437	07780564	5	1.197	30.4	1438
07780410	4	0.272	6.9	49	07782525	25	0.941	23.9	591	▶ 1 AWG (≈ 703/28) • 50.00 mm²				
07780510	5	0.295	7.5	60	07783625	36	1.071	27.2	843	07780465	4	1.280	32.5	1582
07780710	7	0.346	8.8	85										

Other dimensions and colors are possible on request.

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Web site: www.sabcable.com