

# CONTINUOUS FLEX CABLES

## S 90 C Continuous flex shielded polyurethane cable



Marking for S 90 C 07880515:  
SAB BRÖCKSKES · D-VIERSEN · S 90 C 5 x 1,5 mm² CE

S 90 C 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. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. 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.

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### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	specially adjusted layering with non-woven tape over each layer
<b>Inner jacket:</b>	PVC, TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Screen:</b>	tinned copper braiding
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
<b>Jacket color:</b>	gray

### Technical data:

<b>Nominal voltage:</b>	Uo/U 300/500 V
<b>Testing voltage U:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
<b>Min. bending radius</b> <i>continuous flexing:</i>	7.5 x O.D.
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b> <i>static:</i> <i>flexing:</i>	-40/+70 °C +5/+70 °C
<b>Oil resistance:</b>	very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Flexibility:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

### Outstanding features:

- very good EMC characteristics
- improved abrasion resistance
- high tear resistance
- good chemical resistance
- increased efficiency

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 28/34) • 0.50 mm <sup>2</sup>				
07880205	2	0.299	7.6	57
07880305	3	0.311	7.9	61
07880405	4	0.327	8.3	69
07880505	5	0.350	8.9	79
07880705	7	0.406	10.3	106
07881205	12	0.476	12.1	139
07881805	18	0.535	13.6	184
07882505	25	0.642	16.3	183
07883605	36	0.724	18.4	341
07884405	44	0.795	20.2	392
07885205	52	0.823	20.9	437
07886505	65	0.925	23.5	541

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 19 AWG (≈ 42/34) • 0.75 mm <sup>2</sup>				
07880207	2	0.319	8.1	68
07880307	3	0.331	8.4	73
07880407	4	0.350	8.9	81
07880507	5	0.374	9.5	93
07880707	7	0.441	11.2	126
07881207	12	0.516	13.1	169
07881807	18	0.587	14.9	228
07882507	25	0.724	18.4	327
07883607	36	0.795	20.2	425
07884407	44	0.874	22.2	491
07885207	52	0.921	23.4	568
07886507	65	1.028	26.1	694

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG (≈ 56/34) • 1.00 mm <sup>2</sup>				
07880210	2	0.319	8.1	73
07880310	3	0.339	8.6	79
07880410	4	0.362	9.2	91
07880510	5	0.402	10.2	112
07880710	7	0.453	11.5	140
07881210	12	0.531	13.5	196
07881810	18	0.622	15.8	269
07882510	25	0.748	19.0	374
07883610	36	0.823	20.9	491
07884410	44	0.921	23.4	583
07885210	52	0.965	24.5	671
07886510	65	1.039	26.4	817

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<b>Jacket color:</b>	gray

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<b>Flexibility:</b>	very good
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item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 84/34) • 1.50 mm <sup>2</sup>				
07880215	2	0.350	8.9	87
07880315	3	0.366	9.3	97
07880415	4	0.406	10.3	119
07880515	5	0.433	11.0	136
07880715	7	0.500	12.7	179
07881215	12	0.583	14.8	247
07881815	18	0.705	17.9	368
07882515	25	0.823	20.9	483
07883615	36	0.921	23.4	656
07884415	44	1.024	26.0	784
07885215	52	1.063	27.0	889
07886515	65	1.201	30.5	1100

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 140/34) • 2.50 mm <sup>2</sup>				
07880225	2	0.437	11.1	134
07880325	3	0.457	11.6	150
07880425	4	0.496	12.6	175
07880525	5	0.535	13.6	208
07880725	7	0.642	16.3	294
07881225	12	0.791	20.1	430
07881825	18	0.890	22.6	573
07882525	25	1.063	27.0	767
07883625	36	1.201	30.5	1046
▶ 12 AWG (≈ 224/34) • 4.00 mm <sup>2</sup>				
07880240	2	0.500	12.7	163
07880340	3	0.524	13.3	194
07880440	4	0.559	14.2	232
07880540	5	0.606	15.4	288
07880740	7	0.728	18.5	412

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 10 AWG (≈ 186/32) • 6.00 mm <sup>2</sup>				
07880260	2	0.614	15.6	228
07880360	3	0.618	15.7	274
07880460	4	0.673	17.1	340
07880560	5	0.740	18.8	432
07880760	7	0.850	21.6	571
▶ 8 AWG (≈ 320/32) • 10.00 mm <sup>2</sup>				
07880461	4	0.795	20.2	508
07880561	5	0.866	22.0	637
▶ 6 AWG (≈ 504/32) • 16.00 mm <sup>2</sup>				
07880462	4	0.913	23.2	716
07880562	5	1.008	25.6	925
▶ 4 AWG (≈ 760/32) • 25.00 mm <sup>2</sup>				
07880463	4	1.071	27.2	1031
▶ 2 AWG (≈ 1083/32) • 35.00 mm <sup>2</sup>				
07880464	4	1.213	30.8	1348

Other dimensions and colors are possible on request.

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)