

# CONTINUOUS FLEX CABLES

with colored conductors

## SD 90 C TP Continuous flex shielded twisted pairs polyurethane cable



Marking for SD 90 C TP 07710325:  
SAB BRÖCKSKES · D-VIERSEN · SD 90 C TP 3 x 2 x 0,25 mm<sup>2</sup> CE

S 90 C TP is a flexible, multi-paired cable with polyurethane outer jacket that provides cost-effective operation of machine tools requiring a long service life in harsh environments. The tear resistant polyurethane jacket is resistant to mineral oils and abrasion in cable track applications. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. Specially paired conductors ensure maximum interference suppression in analog or digital signal transmission.

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### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Insulation:</b>	PVC, T12 acc. to DIN VDE 0281 part 1 + HD 21.1
<b>Color code:</b>	with reference to DIN 47100
<b>Stranding:</b>	conductors twisted to pairs, pairs twisted in specially adjusted layering with non-woven tape over the outer layer
<b>Wrapping:</b>	non-woven tape
<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

### Outstanding features:

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

### Technical data:

<b>Peak operating voltage:</b>	max. 350 V acc. to DIN VDE
<b>Testing voltage U:</b>	1500 V acc. to DIN VDE 0472 part 509 conductor/screen 1200 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>	-30/+70 °C
<i>flexing:</i>	-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

item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 26 AWG (≈ 18/38) • 0.14 mm <sup>2</sup>				
07710214	2	0.193	4.9	21
07710314	3	0.213	5.4	25
07710414	4	0.236	6.0	30
07710514	5	0.256	6.5	36
07710714	7	0.276	7.0	45
07711814	18	0.409	10.4	96
07712514	25	0.476	12.1	125

item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 24 AWG (≈ 14/34) • 0.25 mm <sup>2</sup>				
07710225	2	0.213	5.4	27
07710325	3	0.232	5.9	32
07710425	4	0.264	6.7	40
07710525	5	0.283	7.2	47
07710725	7	0.299	7.6	60
07711825	18	0.472	12.0	137
07712525	25	0.547	13.9	181

item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 22 AWG (≈ 7/30) • 0.34 mm <sup>2</sup>				
07710234	2	0.248	6.3	36
07710334	3	0.272	6.9	42
07710434	4	0.311	7.9	52
07710534	5	0.346	8.8	65
07710734	7	0.370	9.4	85
07711834	18	0.583	14.8	193
07712534	25	0.673	17.1	263

Other dimensions and colors are possible on request.

