

CONTINUOUS FLEX CABLES



SD 86 C TP Shielded twisted pairs continuous flex cable track data cable for moderate flexing applications



Marking for SD 86 C TP 37640325:
SAB BRÖCKSKES · D-VIERSEN · SD 86 C TP 3 x 2 x 0,25 mm² CE

SD 86 C TP is a flexible, multi-paired cable with PVC outer jacket that provides cost-effective operation of machine tools requiring a long service life in harsh environments. The tear resistant PVC 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:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	with reference to DIN 47100
Stranding:	conductors twisted to pairs, pairs twisted in specially adjusted layering with non-woven tape over each layer
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Jacket material:	PVC TM2 acc. to DIN VDE 0281 part 1 + HD 21.1
Jacket color:	gray

Outstanding features:

- very good flexibility
- good EMC characteristics
- small bending radius
- reinforced outer jacket

Technical data:

Peak operating voltage:	max. 350 V acc. to DIN VDE
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509 conductor/screen 1200 V
Min. bending radius <i>continuous flexing:</i>	7.5 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range <i>static:</i>	-30/+70 °C
<i>flexing:</i>	-5/+70 °C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Oil resistance:	acc. to our internal standard see page N/25
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 26 AWG (18/38) • 0.14 mm ²					▶ 24 AWG (32/38) • 0.25 mm ²					▶ 22 AWG (42/38) • 0.34 mm ²				
37640214	2	0.193	4.9	21	37640225	2	0.213	5.4	27	37640234	2	0.256	6.5	36
37640314	3	0.213	5.4	27	37640325	3	0.240	6.1	35	37640334	3	0.280	7.1	45
37640414	4	0.244	6.2	33	37640425	4	0.272	6.9	40	37640434	4	0.335	8.5	60
37640514	5	0.264	6.7	39	37640525	5	0.291	7.4	51	37640534	5	0.362	9.2	73
37640714	7	0.283	7.2	53	37640725	7	0.311	7.9	65	37640734	7	0.386	9.8	91
37641014	10	0.343	8.7	64	37641025	10	0.378	9.6	83	37641034	10	0.457	11.6	120
37641214	12	0.374	9.5	73	37641225	12	0.421	10.7	104	37641234	12	0.520	13.2	147
37641414	14	0.394	10.0	81	37641425	14	0.445	11.3	118	37641434	14	0.555	14.1	175
37641814	18	0.429	10.9	106	37641825	18	0.492	12.5	148	37641834	18	0.594	15.1	214
37642514	25	0.500	12.7	141	37642525	25	0.563	14.3	197	37642534	25	0.689	17.5	278

Other dimensions and colors are possible on request.