SD 960 CP TP

Very flexible continuous flex polyurethane shielded twisted pairs data cable for small bending radius

Marking for SD 960 CP TP 07872407: SAB BRÖCKSKES · D-VIERSEN ·
07870725 7 x 2 x 0,25 mm² SD 960 CP TP 24 AWG/7pr 07872407 AWM Style 20910 80°C 300V CSA AWM I/II A/B 80°C 300V FT1 FT2

SD 960 CP TP is a very flexible, shielded multi-conductor 80°C, 300 V cable designed for continuous flex applications. The special 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 an excellent chemical and abrasion resistance. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. The SD 960 CP 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.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code:	acc. to color code US 3 see page N/25
Stranding:	conductors twisted to pairs, pairs twisted in specially adjusted layering with non-woven tape over the outer layer
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PU acc. to UL 758 with mat surface
Jacket color:	gray

Outstanding features:

- **very good EMC characteristics**
- **very good flexibility**
- **high abrasion resistance**

Technical data:

Peak operating voltage:	**DIN VDE:** max. 350 V **UL/CSA:** 300 V
Testing voltage U:	1500 V acc. to DIN VDE 0472 part 509 conductor/screen 1200 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	**DIN VDE** -40/+70°C +5/+70°C **UL/CSA:** up to +80°C
Burning characteristics:	flame retardant and self-extinguishing acc. to UL FT1, CSA FT1 and FT2
Oil resistance:	very good - oil rating 60°C acc. to UL 758
Chemical 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 pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **26 AWG (≈ 18/38) • 0.14 mm²**				
07872602	2	0.272	6.4	40
07872603	3	0.303	6,8	52
07872604	4	0.339	7,9	60
07872605	5	0.362	8,5	71
07872607	7	0.386	9.0	86
07872610	10	0.437	10,6	100
07872614	14	0.504	12.6	125
07872618	18	0.539	14,1	153
07872625	25	0.606	16,2	184

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **24 AWG (≈ 32/38) • 0.25 mm²**				
07872402	2	0.299	6,8	53
07872403	3	0.323	7,5	60
07872404	4	0.362	8,4	73
07872405	5	0.390	9.2	83
07872407	7	0.413	4,8	107
07872410	10	0.472	11,9	122
07872414	14	0.547	14,3	159
07872418	18	0.587	15,6	192
07872425	25	0.669	17.6	250

item no.	no. of pairs	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **22 AWG (≈ 42/38) • 0.34 mm²**				
07872202	2	0.311	7.1	56
07872203	3	0.335	7,7	67
07872204	4	0.378	8,9	80
07872205	5	0.406	9,6	97
07872207	7	0.433	10,5	119
07872210	10	0.496	12.5	138
07872214	14	0.575	15,1	179
07872218	18	0.618	16,4	218
07872225	25	0.705	18,6	288

Other dimensions and colors are possible on request.