

Torsion Cables

RT 123 D

Spiral shielded PUR rugged and dependable robot/track cable
±450° torsion over 0.5 m



80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE



Marking for RT 123 D 7961618:

SAB BRÖCKSKES · D-VIERSEN · 7961815 18 x 1.5 mm² RT 123 D 16 AWG/18c 7961618 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

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Construction:

Conductor: 26 AWG - 22 AWG:	bare copper strands, extra fine wires
Conductor: from 20 AWG:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	TPE
Color code: 26 AWG - 22 AWG:	acc. to color code US 2, see page O/27
Color code: from 20 AWG:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer and one additional non-woven tape over the outer layer
Shielding:	wrapped with bare copper wires
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Jacket color:	black (RAL 9005)

Outstanding features:



- rugged and reliable
- torsion angle up to ± 450° per 0.5 meter

Technical data:

Peak operating voltage: 26 AWG - 22 AWG:	max. 350 V	
Peak operating voltage: from 20 AWG:	U _o /U 300/500 V	
Voltage UL/CSA: 26 AWG - 22 AWG:	300 V	
Voltage UL/CSA: from 20 AWG:	600 V	
Testing voltage: 26 AWG - 22 AWG:	conductor/conductor:	1500 V
	conductor/shielding:	1200 V
Testing voltage: from 20 AWG:	conductor/conductor:	3000 V
	conductor/shielding:	2000 V
Torsion angle:	up to ± 450°/0.5 m (tested)	
Min. bending radius: <i>continuously flexible:</i>	12 x O.D.	
	from 34 conductors:	
	20 x O.D.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range:	DIN VDE	UL/CSA: up to +80°C
<i>static:</i>	-50/+90°C	
<i>motion:</i>	-40/+90°C	
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1	
Burning characteristics:	acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1, FT2	
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids, etc.	
Continuous flexibility:	very good	
Approvals:	UR AWM, CSA AWM, CE, EAC, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 26 AWG (≈ 18/38) ▪ 0.14 mm ²				
7962612	12	0.272	6.9	42
▶ 24 AWG (≈ 14/34) ▪ 0.25 mm ²				
7962425	25	0.394	10.0	105
▶ 20 AWG (≈ 28/34) ▪ 0.50 mm ²				
7962005	5	0.323	8.2	63

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 18 AWG (≈ 56/34) ▪ 1.00 mm ²				
7961807	7	0.421	10.7	120
▶ 16 AWG (≈ 84/34) ▪ 1.50 mm ²				
7961612	12	0.587	14.9	227
7961618	18	0.673	17.1	333

Other dimensions and colors are available on request



Also suitable
for flexing applications