

Torsion Cables

RT 123

PUR rugged and dependable robot/track cable $\pm 450^\circ$ torsion over 0.5 m



Marking for RT 123 07951618:

SAB BRÜCKSKES · D-VIERSEN · 07951815 18 x 1.5 mm² RT 123 16 AWG/18c 07951618

AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

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:	specialy adjusted layering with non-woven tape over each layer and one additional non-woven tape over the outer layer
Jacket material:	PUR, TPU 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 $\pm 450^\circ$ over 0.5 meter
- weld resistant

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	
Testing voltage:		
from 20 AWG:	conductor/conductor: 3000 V	
Torsion angle:	up to $\pm 450^\circ/0.5$ m	
Min. bending radius:		
continuously flexible:	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
static:	-50/+90°C	
motion:	-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 - TPU acc. to IEC 50363-10-2 + VDE 0207-363-10-2	
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids, etc.	
Continuous flexibility:	very good	
Approvals:	UL 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 mm²				
07952603	3	0.217	5.5	21
07952604	4	0.185	4.7	17
07952616	16	0.295	7.5	87
▶ 24 AWG (≈ 14/34) ▪ 0.25 mm²				
07952403	3	0.181	4.6	17
07952404	4	0.189	4.8	19
07952407	7	0.213	5.4	26
07952425	25	0.358	9.1	79
▶ 22 AWG (≈ 7/30) ▪ 0.34 mm²				
07952202	2	0.189	4.8	18
▶ 20 AWG (≈ 28/34) ▪ 0.50 mm²				
07952018	18	0.492	12.5	138
07952025	25	0.579	14.7	193

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 19 AWG (≈ 42/34) ▪ 0.75 mm²				
07951904	4	0.315	8.0	53
07951914	14	0.496	12.6	139
▶ 18 AWG (≈ 56/34) ▪ 1.00 mm²				
07951802	2	0.287	7.3	43
07951803	3	0.299	7.6	50
07951804	4	0.319	8.1	61
07951806	6	0.370	9.4	85
07951807	7	0.394	10.0	99
07951812	12	0.480	12.2	144
07951818	18	0.579	14.7	212
07951825	25	0.654	16.6	288
07951834	34	0.776	19.7	376
07951840	40	0.823	20.9	443
07951841	41	0.823	20.9	450

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 16 AWG (≈ 84/34) ▪ 1.50 mm²				
07951603	3	0.335	8.5	67
07951607	7	0.445	11.3	132
07951612	12	0.563	14.3	204
07951618	18	0.654	16.6	292
07951625	25	0.752	19.1	409
▶ 14 AWG (≈ 140/34) ▪ 2.50 mm²				
07951403	3	0.390	9.9	91
07951404	4	0.406	10.3	112
▶ 12 AWG (≈ 224/34) ▪ 4.00 mm²				
07951203	3	0.453	11.5	142
▶ 8 AWG (≈ 320/32) ▪ 10.00 mm²				
07950803	3	0.650	16.5	316
▶ 6 AWG (≈ 504/32) ▪ 16.00 mm²				
07950603	3	0.764	19.4	458
▶ 4 AWG (≈ 760/32) ▪ 25.00 mm²				
07950403	3	0.945	24.0	695
▶ 2 AWG (≈ 1083/32) ▪ 35.00 mm²				
07950203	3	1.071	27.2	933

Other dimensions and colors are available on request



Also suitable for flexing applications



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