

Torsion Cables

RT 123 D

PUR torsion cable with overall copper screen, torsion angle up to $\pm 450^\circ$ over 0.5 m



Marking for RT 123 D 07961815:

SAB BRÖCKSKES · D-VIERSEN · 07961815 18 x 1.5 mm² RT 123 D 16 AWG/18c 07961818

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

Construction:

Conductor 0,14 mm ² - 0,34 mm ² :	bare copper strands, extra fine wires
Conductor from 0,50 mm ² :	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	TPE
Colour code 0,14 mm ² - 0,34 mm ² :	acc. to colour code US 2, see chapter N „Technical Data“
Colour code from 0,50 mm ² :	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores
Stranding:	specially adjusted layering with netting tape over each layer and one additional non-woven tape over the outer layer
Screen:	wrapped with bare copper wires
Wrapping:	non-woven tape
Sheath material:	PUR, TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Sheath colour:	black (RAL 9005)

Technical data:

Peak operating voltage 0,14 mm ² - 0,34 mm ² :	max. 350 V	
Nominal voltage from 0,50 mm ² :	U ₀ /U 300/500 V	
Voltage UL/CSA: 0,14 mm ² - 0,34 mm ² :	300 V	
Voltage UL/CSA: from 0,50 mm ² :	600 V	
Testing voltage 0,14 mm ² - 0,34 mm ² :	core/core 1500 V	core/screen 1200 V
Testing voltage from 0,50 mm ² :	core/core 3000 V	core/screen 2000 V
Torsion angle:	up to $\pm 450^\circ/0.5$ m	
Min. bending radius <i>continuously flexible:</i> <i>from 3/4 cores:</i>	12 x d	20 x d
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range <i>fixed laying:</i> <i>flexible application:</i>	DIN VDE -50/+90 °C	UL/CSA: up to +80 °C -40/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1	
Fire performance:	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	
Chem. resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.	
Continuous flexibility:	very good	
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical Data“	

Outstanding features:



- rugged and reliable
- torsion angle up to $\pm 450^\circ$ over 0.5 m
- UL recognized, CSA approval

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
07961201	12 x 0,14	0,11	6,9	30,2	62
07962502	25 x 0,25	0,11	10,0	90,9	156
07960505	5 x 0,50	0,16	8,2	40,5	94
07960710	7 x 1,00	0,16	10,7	108,5	178
07961215	12 x 1,50	0,16	14,9	214,7	338
07961815	18 x 1,50	0,16	17,1	326,0	496

Other dimensions and colours are possible on request.



Also suitable
for applications on robots!