

Torsion Cables

RT 123

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



Marking for RT 123 07951815:

SAB BRÖCKSKES · D-VIERSEN · 07951815 18x1,5mm² 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
0,14 mm² - 0,34 mm²: bare copper strands, extra fine wires

Conductor
from 0,50 mm²: bare copper strands
acc. to IEC 60228, VDE 0295, class 6

Insulation: TPE

Colour code
0,14 mm² - 0,34 mm²: acc. to colour code US 2,
see chapter N „Technical data“

Colour code
from 0,50 mm²: 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

Sheath material: PUR, TMPU acc. to
EN 50363-10-2 + VDE 0207-363-10-2

Sheath colour: black (RAL 9005)

Outstanding features:

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

Technical data:

Peak operating voltage
0,14 mm² - 0,34 mm²: max. 350 V

Nominal voltage
from 0,50 mm²: U₀/U 300/500 V

Voltage UL/CSA
0,14 mm² - 0,34 mm²: 300 V

Voltage UL/CSA
from 0,50 mm²: 600 V

Testing voltage
0,14 mm² - 0,34 mm²: core/core 1500 V

Testing voltage
from 0,50 mm²: core/core 3000 V

Min. bending radius
continuously flexible: 12 x d
from 34 cores: 20 x d

Radiation resistance: 5 x 10⁷ cJ/kg

Temperature range
fixed laying: DIN VDE UL/CSA: up to +80 °C
flexible application: -50/+90 °C
-40/+90 °C

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“

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
07950301	3 x 0,14	0,11	5,5	4,0	31
07950401	4 x 0,14	0,11	4,7	5,4	26
07950302	3 x 0,25	0,11	4,6	7,2	25
07950402	4 x 0,25	0,11	4,8	9,6	28
07950702	7 x 0,25	0,11	5,4	16,8	39
07952502	25 x 0,25	0,11	9,1	60,0	117
07950203	2 x 0,34	0,11	4,8	6,6	27
07951805	18 x 0,50	0,16	12,5	95,0	216
07952505	25 x 0,50	0,16	14,6	132,0	303
07950407	4 x 0,75	0,16	7,8	28,8	78
07951407	14 x 0,75	0,16	12,6	100,8	207

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
07950210	2 x 1,00	0,16	7,3	19,2	64
07950310	3 x 1,00	0,16	7,6	28,8	75
07950410	4 x 1,00	0,16	8,1	38,4	91
07950610	6 x 1,00	0,16	9,4	57,6	127
07950710	7 x 1,00	0,16	10,0	67,2	147
07951210	12 x 1,00	0,16	12,2	115,2	214
07951810	18 x 1,00	0,16	14,7	172,8	316
07952510	25 x 1,00	0,16	16,6	240,0	428
07953410	34 x 1,00	0,16	19,7	326,4	559
07954010	40 x 1,00	0,16	20,9	384,0	659
07954110	41 x 1,00	0,16	20,9	393,6	670
07950715	7 x 1,50	0,16	11,3	100,8	197
07951215	12 x 1,50	0,16	14,3	172,8	303
07951815	18 x 1,50	0,16	16,6	259,2	435
07952515	25 x 1,50	0,16	19,1	360,0	609
07950325	3 x 2,50	0,16	9,9	72,0	136
07950425	4 x 2,50	0,16	10,3	96,0	166
07950525	5 x 2,50	0,16	11,8	120,0	210
07950340	3 x 4,00	0,16	11,5	115,2	211
07950361	3 x 10,00	0,21	16,5	288,0	471
07950362	3 x 16,00	0,21	19,4	460,8	682
07950363	3 x 25,00	0,21	24,0	720,0	1035
07950364	3 x 35,00	0,21	27,2	1008,0	1389

Also suitable
for applications on robots!

Other dimensions and colours are possible on request.