



## RT 123 PUR torsion cable, torsion angle up to $\pm 450^\circ$ over 0.5 m



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

Marking for RT 123 07951815:

SAB BRÖCKSKES · D-VIERSEN · 07951815 18 x 1.5 mm<sup>2</sup> RT 123 16 AWG/18 c 07951618 AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

### Construction:

<b>Conductor</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	bare copper strands, extra fine wires
<b>Conductor</b> from 0,50 mm <sup>2</sup> :	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE
<b>Colour code</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	acc. to colour code US 2 see page N/11
<b>Colour code</b> from 0,50 mm <sup>2</sup> :	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	specially adjusted layering with netting tape over each layer and one additional non-woven tape over the outer layer
<b>Sheath material:</b>	PUR, TPU acc. to DIN VDE 0282 part 10 + HD 22.10
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- rugged and reliable
- torsion angle up to  $\pm 450^\circ$  over 0,5 m

### Technical data:

<b>Voltage</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	<b>UL/CSA:</b> 300 V		
<b>Voltage from 0,50 mm<sup>2</sup>:</b>	<b>UL/CSA:</b> max. 600 V		
<b>Peak operating voltage</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	max. 350 V		
<b>Nominal voltage U<sub>0</sub>/U</b> from 0,50 mm <sup>2</sup> :	<b>DIN VDE:</b> 300/500 V		
<b>Testing voltage U</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	1500 V acc. to DIN VDE 0472 part 509		
<b>Testing voltage U</b> from 0,50 mm <sup>2</sup> :	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2		
<b>Torsion angle:</b>	up to $\pm 450^\circ/0,5$ m (tested)		
<b>Min. bending radius:</b>	continuously flexible 12 x d / from 34 cores 20 x d		
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cJ/kg		
<b>Temperature range</b> <i>fixed laying:</i> <i>flexible application:</i>	<b>UL</b> up to +80°C up to +80°C	<b>CSA</b> up to +80°C up to +80°C	<b>DIN VDE</b> -50/+90°C -40/+90°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 and DIN VDE 0472 part 815		
<b>Fire performance:</b>	UL VW-1 + CSA FT1 and FT2, IEC 60332-1-2 and EN 60332-1-2		
<b>Oil resistance:</b>	very good - PUR TPU acc. to DIN VDE 0282 part 10 + HD 22.10		
<b>Chem. resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.		
<b>Continuous flexibility:</b>	very good		
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/14		

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item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% 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	5,7	5,4	34
07950302	3 x 0,25	0,11	5,8	7,2	37
07950402	4 x 0,25	0,11	6,1	9,6	41
07950702	7 x 0,25	0,11	7,2	16,8	60
07952502	25 x 0,25	0,11	10,7	60,0	144
07950203	2 x 0,34	0,11	5,8	6,5	38

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
07951805	18 x 0,50	0,16	12,5	95,0	205
07952505	25 x 0,50	0,16	14,7	132,0	287
07950407	4 x 0,75	0,16	8,0	28,8	79
07951407	14 x 0,75	0,16	12,6	100,8	204
07950210	2 x 1,00	0,16	7,5	19,2	68
07950310	3 x 1,00	0,16	7,8	28,8	78
07950410	4 x 1,00	0,16	8,4	38,4	93
07950610	6 x 1,00	0,16	9,7	57,6	129
07950710	7 x 1,00	0,16	10,3	67,2	147
07951210	12 x 1,00	0,16	12,6	115,2	217
07951810	18 x 1,00	0,16	14,9	172,8	318
07952510	25 x 1,00	0,16	17,2	240,0	437
07953410	34 x 1,00	0,16	20,0	326,4	564
07954010	40 x 1,00	0,16	21,4	384,0	661
07954110	41 x 1,00	0,16	21,4	393,6	673
07950715	7 x 1,50	0,16	11,7	100,8	200
07951215	12 x 1,50	0,16	14,7	172,8	307
07951815	18 x 1,50	0,16	17,1	259,2	442
07952515	25 x 1,50	0,16	20,0	360,0	618
07950325	3 x 2,50	0,16	10,4	72,0	151
07950425	4 x 2,50	0,16	11,2	96,0	182
07950340	3 x 4,00	0,16	12,1	115,2	211
07950361	3 x 10,0	0,21	18,0	288,0	475
07950362	3 x 16,0	0,21	20,4	460,8	698
07950363	3 x 25,0	0,21	25,6	720,0	1066
07950364	3 x 35,0	0,21	28,4	1008,0	1386



Also suitable for applications on robots!

Other dimensions and colours are possible on request.