



RT 113 PVC torsion cable, torsion angle up to $\pm 270^\circ$ over 0.5 m



21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2

07971815 18 x 1.5 mm² RT 113 16 AWG/18 c 07961618 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2

Marking for RT 113 07971815: SAB BRÖCKSKES · D-VIERSEN ·

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, EN 60228, VDE 0295, class 6
Insulation:	PVC, TI2 acc. to DIN VDE 0281 part 1 + HD 21.1
Colour code 0,14 mm ² - 0,34 mm ² :	acc. to colour code US 2 see page N/11
Colour code from 0,50 mm ² :	black cores with consecutive numbers acc. to EN 50334; 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:	PVC, TM5 acc. to DIN VDE 0281 part 1 HD 21.1
Sheath colour:	black (RAL 9005)

Technical data:

Voltage 0,14 mm ² - 0,34 mm ² :	UL: 300 V	
Voltage from 0,50 mm ² :	UL/CSA: 600 V	
Peak operating voltage 0,14 mm ² - 0,34 mm ² :	max. 350 V	
Nominal voltage U₀/U from 0,50 mm ² :	DIN VDE: 300/500 V	
Testing voltage U 0,14 mm ² - 0,34 mm ² :	1500 V acc. to DIN VDE 0472 part 509	
Testing voltage U from 0,50 mm ² :	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
Torsion angle:	up to $\pm 270^\circ/0,5$ m (tested)	
Min. bending radius:	continuously flexible 12 x d / from 34 cores 20 x d	
Temperature range 0,14 mm ² - 0,34 mm ² <i>fixed laying:</i> <i>flexible application:</i>	UL up to +80°C up to +80°C	DIN VDE -40/+70°C + 5/+70°C
Temperature range from 0,50 mm ² <i>fixed laying:</i> <i>flexible application:</i>	UL/CSA up to +90°C up to +90°C	DIN VDE -40/+70°C + 5/+70°C
Fire performance 0,14 mm ² - 0,34 mm ² :	UL VW1, IEC 60332-1-2 and EN 60332-1-2	
Fire performance from 0,50 mm ² :	UL VW1 + CSA FT1 + FT2 and IEC 60332-1	
Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1, oilrating 60°C acc. to UL 758, Fuel-Oil acc. to CSA C22.2 No. 210.2-M90	
Continuous flexibility:	very good	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/14	

Outstanding features:

- rugged and reliable
- torsion angle up to $\pm 270^\circ$ over 0,5 m

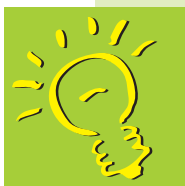
UL / CE

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
07970301	3 x 0,14	0,11	5,2	4,0	32
07970401	4 x 0,14	0,11	5,6	5,4	36
07970302	3 x 0,25	0,11	5,6	7,2	38
07970402	4 x 0,25	0,11	5,9	9,6	43
07970702	7 x 0,25	0,11	7,3	16,8	66
07972502	25 x 0,25	0,11	11,4	60,0	172
07970203	2 x 0,34	0,11	5,5	6,5	39

UL / CSA / CE

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
07972505	25 x 0,50	0,16	14,8	132,0	318
07970407	4 x 0,75	0,16	7,5	28,8	79
07970707	7 x 0,75	0,16	10,2	67,2	157
07971407	14 x 0,75	0,16	12,7	100,8	225
07970210	2 x 1,00	0,16	6,8	19,2	65
07970310	3 x 1,00	0,16	7,2	28,8	77
07970410	4 x 1,00	0,16	7,9	38,4	93
07971210	12 x 1,00	0,16	12,6	115,2	234
07971810	18 x 1,00	0,16	14,8	172,8	340
07972510	25 x 1,00	0,16	17,2	240,0	473
07973410	34 x 1,00	0,16	20,2	326,4	616
07974110	41 x 1,00	0,16	21,6	393,6	735
07971815	18 x 1,50	0,16	16,5	259,2	456
07972515	25 x 1,50	0,16	19,3	360,0	638
07970325	3 x 2,50	0,16	10,2	72,0	160
07970425	4 x 2,50	0,16	11,1	96,0	194
07970340	3 x 4,00	0,16	12,3	115,2	234
07970361	3 x 10,0	0,21	18,5	288,0	548
07970362	3 x 16,0	0,21	21,1	460,8	794
07970363	3 x 25,0	0,21	23,9	720,0	1128
07970364	3 x 35,0	0,21	28,9	1008,0	1555

Other dimensions and colours are possible on request.



Also suitable
for applications
on robots!