

# Torsion Cables

## RT 113

Economical torsional cable for moderate torsional stress  
±270° torsion over 0.5 m



Marking for RT 113 7971618:

SAB BRÖCKSKES · D-VIERSEN · 7971815 18 x 1.5 mm<sup>2</sup> RT 113 16 AWG/18c 7971618 AWM Style 21216 90°C Oil 60°C 600V CSA AWM I/II A/B 90°C F 600V FT1 FT2 CE

### Construction:

<b>Conductor:</b> 26 AWG - 22 AWG:	bare copper strands, extra fine wires
<b>Conductor:</b> from 20 AWG:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
<b>Insulation:</b>	PVC, T12 acc. to EN 50363-3 + VDE 0207-363-3
<b>Color code:</b> 26 AWG - 22 AWG:	acc. to color code US 2, see page O/27
<b>Color code:</b> from 20 AWG:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
<b>Stranding:</b>	specially adjusted layering with non-woven tape over each layer and one additional non-woven tape over the outer layer
<b>Jacket material:</b>	PVC, TM5 acc. to EN 50363-4-1 + VDE 0207-363-4-1
<b>Jacket color:</b>	black (RAL 9005)

### Outstanding features:

- rugged and reliable
- torsion angle up to ± 270° per 0.5 meter

### Technical data:

<b>Peak operating voltage:</b> 26 AWG - 22 AWG:	max. 350 V	
<b>Nominal voltage:</b> from 20 AWG:	U <sub>o</sub> /U 300/500 V	
<b>Voltage UL:</b> 26 AWG - 22 AWG:	300 V	
<b>Voltage UL/CSA:</b> from 20 AWG:	600 V	
<b>Testing voltage:</b> 26 AWG - 22 AWG:	conductor/conductor: 1500 V	
<b>Testing voltage:</b> from 20 AWG:	conductor/conductor: 2000 V	
<b>Torsion angle:</b>	up to ± 270/0.5 m (tested)	
<b>Min. bending radius:</b> continuously flexible: from 34 conductors:	12 x O.D. 20 x O.D.	
<b>Temperature range:</b> 26 AWG - 22 AWG: static: motion:	<b>DIN VDE</b> -40/+70°C +5/+70°C	<b>UL:</b> up to +80°C
<b>Temperature range:</b> from 20 AWG: static: motion:	<b>DIN VDE</b> -40/+70°C +5/+70°C	<b>UL/CSA:</b> up to +90°C
<b>Burning characteristics:</b> 26 AWG - 22 AWG:	acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1	
<b>Burning characteristics:</b> from 20 AWG:	acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1, FT2	
<b>Oil resistance:</b>	very good - TM5 acc. to EN 50363-4-1 + VDE 0207-363-4-1, oil rating 60°C acc. to UL 758, Fuel-Oil acc. to CSA C22.2 No. 210.2-M90	
<b>Continuous flexibility:</b>	very good	
<b>Approvals:</b>	UR AWM, CSA AWM, CE, EAC, RoHS	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30	

### UR / CE

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 26 AWG (≈ 18/38) ▪ 0.14 mm<sup>2</sup></b>				
7972603	3	0.205	5.2	21
7972604	4	0.220	5.6	24
<b>▶ 24 AWG (≈ 14/34) ▪ 0.25 mm<sup>2</sup></b>				
7972403	3	0.213	5.4	25
7972404	4	0.232	5.9	29
7972407	7	0.287	7.3	45
7972425	25	0.441	11.2	116
<b>▶ 22 AWG (≈ 7/30) ▪ 0.34 mm<sup>2</sup></b>				
7972202	2	0.209	5.3	24
7972025	25	0.583	14.8	223

### UR / CSA / CE

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 20 AWG (≈ 28/34) ▪ 0.50 mm<sup>2</sup></b>				
7972025	25	0.583	14.8	223
<b>▶ 19 AWG (≈ 42/34) ▪ 0.75 mm<sup>2</sup></b>				
7971904	4	0.291	7.4	50
7971907	7	0.378	9.6	90
7971914	14	0.492	12.5	151
<b>▶ 18 AWG (≈ 56/34) ▪ 1.00 mm<sup>2</sup></b>				
7971802	2	0.268	6.8	40
7971803	3	0.272	6.9	48
7971804	4	0.307	7.8	60
7971812	12	0.488	12.4	157
7971818	18	0.567	14.4	224
7971825	25	0.665	16.9	314
7971834	34	0.791	20.1	419
7971841	41	0.843	21.4	492

### UR / CSA / CE

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 16 AWG (≈ 84/34) ▪ 1.50 mm<sup>2</sup></b>				
7971618	18	0.650	16.5	306
7971625	25	0.736	18.7	423
<b>▶ 14 AWG (≈ 140/34) ▪ 2.50 mm<sup>2</sup></b>				
7971403	3	0.386	9.8	98
7971404	4	0.417	10.6	124
<b>▶ 12 AWG (≈ 224/34) ▪ 4.00 mm<sup>2</sup></b>				
7971203	3	0.476	12.1	151
<b>▶ 8 AWG (≈ 320/32) ▪ 10.00 mm<sup>2</sup></b>				
7970803	3	0.661	16.8	337
<b>▶ 6 AWG (≈ 504/32) ▪ 16.00 mm<sup>2</sup></b>				
7970603	3	0.776	19.7	491
<b>▶ 4 AWG (≈ 760/32) ▪ 25.00 mm<sup>2</sup></b>				
7970403	3	0.937	23.8	726
<b>▶ 2 AWG (≈ 1083/32) ▪ 35.00 mm<sup>2</sup></b>				
7970203	3	1.071	27.2	988

Other dimensions and colors are available on request



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