

TORSION CABLES

torsion/twisting angle
up to $\pm 270^\circ$
per 19.685 inches



RT 113 Economical torsional cable for moderate torsional stress



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

Marking for RT 113 07971618: SAB BRÖCKSKES · D-VIERSEN ·

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

This 300/600 V UL/CSA approved cable is rated for 80°C and used in applications where moderate twisting stress occur. This cable accurately transmits control signals and power supply to rotary tables and other automated applications. The high quality UL/CSA approved PVC jacket is oil resistant and passes the stringent VDE-Oil test.

Construction:

Conductor 26 AWG - 22 AWG: from 20 AWG:	bare copper strands, extra fine wires bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC T12 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code 26 AWG - 22 AWG: from 20 AWG:	acc. to color code US 2 see page N/23 black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with netting tape over each layer and one additional non-woven tape over the outer layer
Jacket material:	PVC TM5 acc. to DIN VDE 0281 part 1 HD 21.1
Jacket color:	black

Outstanding features:

- rugged and reliable
- torsion angle up to $\pm 270^\circ$ per 0.5 m (19.685 inches)

Technical data:

Voltage 26 AWG - 22 AWG: from 20 AWG:	UL: 300 V UL/CSA: max. 600 V
Peak operating voltage 26 AWG - 22 AWG:	max. 350 V
Nominal voltage U₀/U from 20 AWG:	DIN VDE: 300/500 V
Testing voltage U 26 AWG - 22 AWG: from 20 AWG:	1500 V acc. to DIN VDE 0472 part 509 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:	continuous flexing 12 x O.D. from 34 conductors 20 x O.D.
Temperature range 26 AWG - 22 AWG <i>static:</i> <i>flexing:</i> from 20 AWG <i>static:</i> <i>flexing:</i>	DIN VDE -40/+70°C + 5/+70°C DIN VDE -40/+70°C + 5/+70°C UL: up to +80°C UL + CSA: up to +90°C
Burning characteristics 26 AWG - 22 AWG: from 20 AWG:	UL VW1, IEC 60332-1-2 and EN 60332-1-2 UL VW1 + CSA FT1 + FT2 and IEC 60332-1
Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1 + HD 21.1
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25

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UL / CE

item no.	no. of conductors	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft
▶ 26 AWG (18/38) • 0.14 mm ²				
07972603	3	0.205	5.2	22
07972604	4	0.220	5.6	24
▶ 24 AWG (32/28) • 0.25 mm ²				
07972403	3	0.220	5.6	26
07972404	4	0.232	5.9	29
07972407	7	0.287	7.3	44
07972425	25	0.449	11.4	116
▶ 22 AWG (42/38) • 0.34 mm ²				
07972202	2	0.217	5.5	26

UL / CSA / CE

item no.	no. of conductors incl. ground	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft
▶ 20 AWG (33/34) • 0.50 mm ²				
07972025	25	0.583	14.8	214
▶ 19 AWG (42/34) • 0.75 mm ²				
07971904	4	0.295	7.5	53
07971907	7	0.402	10.2	106
07971914	14	0.500	12.7	151
▶ 18 AWG (56/34) • 1.00 mm ²				
07971802	2	0.268	6.8	44
07971803	3	0.283	7.2	52
07971804	4	0.311	7.9	62
07971812	12	0.496	12.6	157
07971818	18	0.583	14.8	228
07971825	25	0.677	17.2	318
07971834	34	0.795	20.2	414
07971841	41	0.850	21.6	494

UL / CSA / CE

item no.	no. of conductors incl. ground	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft
▶ 16 AWG (84/34) • 1.50 mm ²				
07971618	18	0.650	16.5	306
07971625	25	0.760	19.3	429
▶ 14 AWG (140/34) • 2.50 mm ²				
07971403	3	0.402	10.2	108
07971404	4	0.437	11.1	130
▶ 12 AWG (224/34) • 4.00 mm ²				
07971203	3	0.484	12.3	157
▶ 8 AWG (320/32) • 10.00 mm ²				
07970803	3	0.728	18.5	368
▶ 6 AWG (512/32) • 16.00 mm ²				
07970603	3	0.831	21.1	534
▶ 4 AWG (798/32) • 25.00 mm ²				
07970403	3	0.941	23.9	758
▶ 2 AWG (1102/32) • 35.00 mm ²				
07970203	3	1.138	28.9	1045

Other dimensions and colors are possible on request.

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Web site: www.sabcable.com