

TORSION CABLES

torsion/twisting angle
up to **± 270°**
per 19.685 inches



RT 113 Economical torsional cable for moderate torsional stress



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

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

This 300/600 V UL recognized, 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 recognized, CSA approved PVC jacket is oil resistant and passes the stringent VDE-Oil test.

Construction:

Conductor 26 AWG - 22 AWG:	bare copper strands, extra fine wires
from 20 AWG:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	PVC Tl2 acc. to DIN VDE 0281 part 1 + HD 21.1
Color code 26 AWG - 22 AWG:	acc. to color code US 2 see page N/25
from 20 AWG:	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 **± 270°** per 0.5 m (19.685 inches)

Technical data:

Voltage 26 AWG - 22 AWG:	UL: 300 V
from 20 AWG:	UL/CSA: max. 600 V
Peak operating voltage 26 AWG - 22 AWG:	max. 350 V
Nominal voltage Uo/U from 20 AWG:	DIN VDE: 300/500 V
Testing voltage U 26 AWG - 22 AWG:	1500 V acc. to DIN VDE 0472 part 509
from 20 AWG:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2
Torsion angle:	up to ± 270°/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	DIN VDE -40/+70°C static: + 5/+70°C flexing:
from 20 AWG	DIN VDE -40/+70°C static: + 5/+70°C flexing:
Burning characteristics 26 AWG - 22 AWG:	UL VW1, IEC 60332-1-2 and EN 60332-1-2
from 20 AWG:	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 directive of the European Union see page N/28

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UL / CE

item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ 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 (≈ 14/34) • 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 (≈ 7/30) • 0.34 mm ²				
07972202	2	0.217	5.5	26

UL / CSA / CE

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 28/34) • 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-ø inch	nominal outer-ø mm	cable weight ≈ 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 (≈ 504/32) • 16.00 mm ²				
07970603	3	0.831	21.1	534
▶ 4 AWG (≈ 760/32) • 25.00 mm ²				
07970403	3	0.941	23.9	758
▶ 2 AWG (≈ 1083/32) • 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