

TORSION CABLES

torsion/twisting angle
up to **± 450°**
per 19.685 inches



RT 123 Halogen free rugged and dependable robot/track cable



Marking for RT 123 07951618: SAB BRÖCKSKES · D-VIERSEN ·

07951815 18 G 1.5 mm² 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

This 300/600 V UL recognized, CSA approved cable is rated for 80°C and used in applications where combined twisting and bending stresses occur. This unique cable accurately transmits control signals and power supply to welding robots, rotary tables and other automated applications. The high quality UL recognized, CSA approved insulation with its smooth surface and slide wrapping increases cable life expectancy under extreme twisting and bending stresses. The TPE outer jacket made of specially formulated polyurethane is highly resistant to abrasion, oil, notching microbes and hydrolysis. In addition, the surface quality prevents adhesion to adjacently installed cables.

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:	TPE
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:	TPE outer jacket
Jacket color:	black

Outstanding features:

- ▶ rugged and reliable
- ▶ torsion angle up to ± 450° per 0.5 m (19.685 inches)
- ▶ weld resistant

Technical data:

Voltage 26 AWG - 22 AWG:	UL/CSA: 300 V		
from 20 AWG:	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:	1500 V acc. to DIN VDE 0472 part 509		
from 20 AWG:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2		
Torsion angle:	up to ± 450°/0.5 m (tested)		
Min. bending radius:	continuous flexing 12 x O.D. from 34 conductors 20 x O.D.		
Radiation resistance:	5 x 10 ⁷ cJ/kg		
Temperature range <i>static:</i>	DIN VDE: -50/+90°C	UL: up to +80°C	CSA: up to +80°C
<i>flexing:</i>	-40/+90°C	up to +80°C	up to +80°C
Zero halogen:	acc. to IEC 60754-1 and DIN VDE 0472 part 815		
Burning characteristics:	UL VW-1 + CSA FT1 and FT2, IEC 60332-1-2 and EN 60332-1-2		
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10		
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.		
Continuous flexibility:	very good		
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28		

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item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft					
▶ 26 AWG (≈ 18/38) • 0.14 mm ²					▶ 20 AWG (≈ 28/34) • 0.50 mm ²					▶ 16 AWG (≈ 84/34) • 1.50 mm ²									
07952603	3	0.217	5.5	21	07952018	18	0.492	12.5	138	07951607	7	0.461	11.7	134					
07952604	4	0.224	5.7	23	07952025	25	0.579	14.7	193	07951612	12	0.579	14.7	206					
▶ 24 AWG (≈ 14/34) • 0.25 mm ²					▶ 19 AWG (≈ 42/34) • 0.75 mm ²					07951618					18	0.673	17.1	297	
07952403	3	0.228	5.8	25	07951904	4	0.315	8.0	53	07951625	25	0.787	20.0	415					
07952404	4	0.240	6.1	28	07951914	14	0.496	12.6	137	▶ 14 AWG (≈ 140/34) • 2.50 mm ²									
07952407	7	0.283	7.2	40	07951802	2	0.295	7.5	46	07951403	3	0.409	10.4	101					
07952425	25	0.421	10.7	97	07951803	3	0.307	7.8	52	07951404	4	0.441	11.2	122					
▶ 22 AWG (≈ 7/30) • 0.34 mm ²					07951804					4	0.331	8.4	62	▶ 12 AWG (≈ 224/34) • 4.00 mm ²					
07952202	2	0.228	5.8	26	07951806	6	0.382	9.7	87	07951203	3	0.476	12.1	142					
					07951807					7	0.406	10.3	99	▶ 8 AWG (≈ 320/32) • 10.00 mm ²					
					07951812					12	0.496	12.6	146	07950803	3	0.709	18.0	319	
					07951818					18	0.587	14.9	214	▶ 6 AWG (≈ 504/32) • 16.00 mm ²					
					07951825					25	0.677	17.2	294	07950603	3	0.803	20.4	469	
					07951834					34	0.787	20.0	379	▶ 4 AWG (≈ 760/32) • 25.00 mm ²					
					07951840					40	0.843	21.4	444	07950403	3	1.008	25.6	716	
					07951841					41	0.843	21.4	452	▶ 2 AWG (≈ 1083/32) • 35.00 mm ²					
															07950203	3	1.118	28.4	931

Other dimensions and colors are possible on request.

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Web site: www.sabcable.com