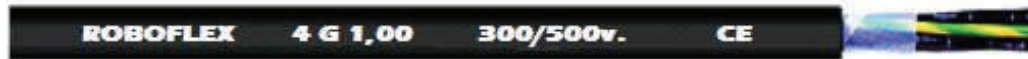


ROBOFLEX Torsion Cable



ROBOFLEX is a high flex, black polyurethane robotic torsion cable specially designed for combined torsional and bending stresses. These cables can accurately transmit control signals and power supply to welding robots, rotary tables, power chains and other automated applications requiring a twisting movement. **ROBOFLEX** cables have a special formulated polyurethane jacket resistant to oil, microbes, corrosion, oxygen, UV-radiation, solvents, acids, hydraulic fluid and alkalis. In addition, the jacket surface quality prevents adhesion to adjacently installed cables.



Construction:

- Fine or superfine bare copper strands
- Strands to VDE-0295 Class-5 or 6, IEC 60228
- Special TPE core insulation
- 24 & 22 AWG color code to DIN47100
- 20 AWG and up to VDE-0293 black/numbered
- Includes a green/yellow ground
- Teflon tape wrapping over cores
- Special polyurethane jacket - black (RAL 9005)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 350v (24&22 AWG)
- Working voltage: 300/500 volts
- Test voltage: 1500/3000 volts
- Min flexing bending radius: 7.5 x Ø
- Flexing temp: -40° C to +80° C
- Static temp: -50° C to +80° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: > 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281 & 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
24 AWG (14/34) 0,25mm²				
7902407	7	0.244" / 6.2mm	11	32
7902412	12	0.299" / 7.6mm	19	48
7902425	25	0.409" / 10.4mm	40	96
22 AWG (19/34) 0,34mm²				
7902202	2	0.197" / 5.0mm	5	18
7902203	3	0.213" / 5.4mm	7	23
7902207	7	0.264" / 6.7mm	15	34
7902212	12	0.327" / 8.3mm	26	46
20 AWG (16/32) 0,50mm²				
7902012	12	0.370" / 9.4mm	39	60
7902016	16	0.417" / 10.6mm	52	72
7902018	18	0.441" / 11.2mm	58	81
7902025	25	0.524" / 13.3mm	80	172
18 AWG (24/32) 0,75mm²				
7901804	4	0.260" / 6.6mm	19	42
7901807	7	0.311" / 7.9mm	34	64
7901812	12	0.413" / 10.5mm	56	115
7901814	14	0.449" / 11.4mm	67	134
17 AWG (32/32) 1,00mm²				
7901702	2	0.244" / 6.2mm	13	32
7901703	3	0.256" / 6.5mm	19	41
7901704	4	0.283" / 7.2mm	26	51
7901707	7	0.366" / 9.3mm	45	88
7901712	12	0.453" / 11.5mm	77	145
7901716 **	16 + #17-2/c	0.650" / 16.5mm	131	252
7901718	18	0.520" / 13.2mm	115	204
7901723 **	23 + #17-2/c	0.681" / 17.3mm	176	315
7901725	25	0.646" / 16.4mm	161	290
7901734	34	0.744" / 18.9mm	219	379
7901741	41	0.843" / 21.4mm	264	467
16 AWG (30/30) 1,50mm²				
7901603	3	0.272" / 6.9mm	29	63
7901604	4	0.311" / 7.9mm	38	72
7901608	8	0.437" / 11.1mm	77	196
7901612	12	0.571" / 14.5mm	115	239
7901618	18	0.622" / 15.8mm	168	298
7901625	25	0.776" / 19.7mm	241	427

** includes a shielded #17-2/c

Sizes continued on next page.

ROBOFLEX Torsion Cable



ROBOFLEX Sizes Continued. (14 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
14 AWG (50/30) 2,50mm²				
7901403	3	0.366" / 9.3mm	48	91
7901404	4	0.398" / 10.1mm	64	115
12 AWG (56/28) 4,00mm²				
7901203	3	0.406" / 10.3mm	78	152
7901204	4	0.441" / 11.2mm	103	175
10 AWG (84/28) 6,00mm²				
7901004	4	0.555" / 14.1mm	154	229
8 AWG (80/26) 10,0mm²				
7900803	3	0.720" / 18.3mm	193	347
6 AWG (128/26) 16,0mm²				
7900603	3	0.843" / 21.4mm	309	484
4 AWG (200/26) 25,0mm²				
7900403	3	1.031" / 26.2mm	483	791
2 AWG (280/26) 35,0mm²				
7900203	3	1.134" / 28.8mm	676	1073

* Additional sizes may be available.