

# Torsion Cables

## RT 113 D

PVC torsion cable with overall copper screen, torsion angle up to  $\pm 270^\circ$  over 0.5 m



Marking for RT 113 D 07981201:

SAB BRÖCKSKES · D-VIERSEN · 07981201 12x0,14mm<sup>2</sup> RT 113 D 26 AWG/12c 07982612 AWM Style 2464 80°C 300V CE

### Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	PVC, TI2 acc. to EN 50363-3 + VDE 0207-363-3
Colour code:	acc. to colour code US 2, see chapter N „Technical data“
Stranding:	specially adjusted layering with netting tape over each layer and one additional non-woven tape over the outer layer
Screen:	wrapped with bare copper wires
Wrapping:	non-woven tape
Sheath material:	PVC, TM5 acc. to EN 50363-4-1 + VDE 0207-363-4-1
Sheath colour:	black (RAL 9005)

### Technical data:

Peak operating voltage:	max. 350 V
Voltage UL:	300 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Torsion angle:	up to $\pm 270^\circ/0.5$ m
Min. bending radius	
continuously flexible:	12 x d
from 34 cores:	20 x d
Temperature range	DIN VDE UL: up to +80 °C
fixed laying:	-40/+70 °C
flexible application:	+5/+70 °C
Fire performance:	acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1
Oil resistance:	very good - TM5 acc. to EN 50363-4-1 + VDE 0207-363-4-1
Continuous flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“

### Outstanding features:

- » rugged and reliable
- » torsion angle up to  $\pm 270^\circ$  over 0.5 m
- » UL recognized

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire Ø mm	outer-Ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
07981201	12 x 0,14	0,11	8,4	32,2	88
07982502	25 x 0,25	0,11	11,6	102,3	201

Other dimensions and colours are possible on request.

Also suitable  
for applications on robots!