

Torsion Cables

RT 123 D

PUR torsion cable with overall copper screen, torsion angle up to $\pm 450^\circ$ over 0.5 m



marking example:

SAB BRÜCKSKES · D-VIERSEN · 07961815 18x1,5mm² RT 123 D 16 AWG/18c 07961618

AWM Style 21060 80°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

Construction:

| | |
|---|--|
| Conductor 0,14 mm ² - 0,34 mm ² : | bare copper strands, extra fine wires |
| Conductor from 0,50 mm ² : | bare copper strands acc. to IEC 60228, VDE 0295, class 6 |
| Insulation: | TPE |
| Colour code 0,14 mm ² - 0,34 mm ² : | acc. to colour code US 2, see chapter N „Technical data“ |
| Colour code from 0,50 mm ² : | black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores |
| 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: | PUR, TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Sheath colour: | black (RAL 9005) |

Outstanding features:

- » rugged and reliable
- » torsion angle up to $\pm 450^\circ$ over 0.5 m
- » UL recognized, CSA approval

Technical data:

| | |
|--|---|
| Peak operating voltage 0,14 mm ² - 0,34 mm ² : | max. 350 V |
| Nominal voltage from 0,50 mm ² : | U ₀ /U 300/500 V |
| Voltage UL/CSA 0,14 mm ² - 0,34 mm ² : | 300 V |
| Voltage UL/CSA from 0,50 mm ² : | 600 V |
| Testing voltage 0,14 mm ² - 0,34 mm ² : | core/core 1500 V core/screen 1200 V |
| Testing voltage from 0,50 mm ² : | core/core 3000 V core/screen 2000 V |
| Torsion angle: | up to $\pm 450^\circ/0.5$ m |
| Min. bending radius <i>continuously flexible:</i> <i>from 34 cores:</i> | 12 x d 20 x d |
| Radiation resistance: | 5 x 10 ⁷ cJ/kg |
| Temperature range <i>fixed laying:</i> <i>flexible application:</i> | DIN VDE UL/CSA: up to +80 °C -50/+90 °C -40/+90 °C |
| Halogen-free: | acc. to IEC 60754-1 + VDE 0482-754-1 |
| Fire performance: | acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1, FT2 |
| Oil resistance: | very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Chem. 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 chapter N „Technical data“ |

| item no. | no. of cores x cross section n x mm ² | largest single wire ø mm | outer-ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|--------------------------------|------------------------|---------------------------|----------------------------|
| 07961201 | 12 x 0,14 | 0,11 | 6,9 | 30,2 | 62 |
| 07962502 | 25 x 0,25 | 0,11 | 10,0 | 90,9 | 156 |
| 07960505 | 5 x 0,50 | 0,16 | 8,2 | 40,5 | 94 |
| 07960710 | 7 x 1,00 | 0,16 | 10,7 | 108,5 | 178 |
| 07961215 | 12 x 1,50 | 0,16 | 14,9 | 214,7 | 338 |
| 07961815 | 18 x 1,50 | 0,16 | 17,1 | 326,0 | 496 |

Other dimensions and colours are possible on request.

Also suitable
for applications on robots!