



Screened TPE-PUR robot cable for bending and torsion loads

Space-saving installation due to small cable diameters; Hightech robot cable; Protection against water and dirt; Wear-resistant

- Simultaneous bending and torsion
- EMC-compliant

















Product description

Application range

- · Plant engineering
- Machine tools
- Automated handling equipment
- Multi-axis articulated robots
- In power chains or moving machine parts

Benefits

- Space-saving installation due to small cable diameters
- Hightech robot cable
- · Protection against water and dirt
- · Wear-resistant

ÖLFLEX® ROBOT 900 DP



Product Make-up

• Fine or extra-fine strands made of bare copper wire

• Core insulation: TPE

· Cores twisted in layers

• PTFE tape wrapping

• Screened version (DP): wrapped with braided tinned-copper wires

• PUR outer sheath, black (RAL 9005)

Norm references / Approvals

For use in power chains: Please comply with the assembly guidelines listed in Appendix T3

• For travel distances up to 10 m.

Product features

· Abrasion and cut-resistant

• Hydrolysis-resistant

Oil-resistant

· Low-adhesive surface

Flame-retardant

Technical Data

Core identification code Up to 0.34 mm²: DIN 47100 cores

From 0.5 mm²: black cores with white printed numbers

Mutual capacitance C/C approx. 100 nF/km
C/S approx. 120 nF/km

Peak operating voltage 0.34 mm²: 350 V (not for power transmission)

Classification ETIM 5.0 Class-ID: EC000104

ETIM 5.0 Class-Description: Control cable

Inductivity approx. 0.7 mH/km

Conductor stranding Fine wire or extra-fine wire

Torsion Fine wire or extra-line v

Max. torsion load

± 180°/m

Minimum bending radius Flexing: 15 x outer diameter

Fixed installation: 4 x outer diameter

Nominal voltage 48 V AC

From 0.5 mm 2 U $_0$ /U: 300/500 V Test voltage Up to 0.34 mm 2 : 1500 V

Up to 0.34 mm²: 1500 V From 0.5 mm²: 3000 V

Protective conductor

G = with GN-YE protective conductor

X = without protective conductor

Temperature range Flexing: -40°C to +80°C

Fixed installation: -50°C to +80°C

Core insulation: capable of temporary overload to

+120°C