ÖLFLEX® ROBOT F1

TPE-PUR robot cable for flexing and torsion load, approved

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

- Simultaneous bending and torsion
- AWM approvals for USA and Canada

Product description

Application range

- Plant engineering
- Multi-axis articulated robots
- Automated handling equipment
- 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

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Product Make-up

- Fine or extra-fine strands, 0.14 mm² - 0.5 mm², made from tinned-copper wires, bare above.
- Core insulation: TPE
- Cores (or core pairs) twisted in layers or bundles
- PTFE tape wrapping
- Pair screen (D): layer of tinned-copper wires
- PUR outer sheath, black (RAL 9005)

Norm references / Approvals

- UL AWM Style 20940 VW1
  cUL AWM I/II A/B FT 1
- For horizontal travel distances up to 100m
- For use in power chains: Please comply with the assembly guidelines listed in Appendix T3
- UL File No. E213974

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: white cores with black printed numbers
Classification	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Conductor stranding	Fine wire or extra-fine wire
Torsion	Max. torsion load Max. torsion load ± 360°/m
Minimum bending radius	Flexible use: 10 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage	IEC: up to 0.34 mm² 250 Vss. 0.5 - 2.5 mm² 300/500 V UL/CSA up to 1.5 mm² 600 V, from 2.5 mm² 1000 V
Test voltage	Cores: spark test 6 kV
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