

### PRODUCT INFORMATION

### ÖLFLEX® ROBOT 900 DP

Shielded, abrasion- and oil-resistant PUR robot cable for dynamic bending and torsion motions

ÖLFLEX® ROBOT 900 DP - Screened power and control cable für bending and torsional load in harsh environmental conditions

#### Info

Simultaneous bending and torsion Torsion angle up to +/- 180 °/m Copper screening



LAPP KABEL STUTIGART ÖLFLEX" ROBOT 900 DP (E



Supplementary automation components from Lapp



Suitable for outdoor use



Mechanical resistance

Cold-resistant



Oil-resistant



Power chain



Interference signals



Torsion-resistant

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### ÖLFLEX® ROBOT 900 DP



UV-resistant

#### **Benefits**

Space-saving installation due to small cable diameters Increased durability under harsh conditions thanks to robust PUR outer sheath Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media Wide temperature range for applications in harsh climatic environments Copper shielding protects against electromagnetic interference

#### Application range

Industrial machinery and machine tools Automated handling equipment Automotive industry In power chains or moving machine parts Inside of dresspacks of buckling arm robots and for use for gantry robots

#### Product features

Abrasion and notch-resistant Flame-retardant High oil-resistance Flexible at low temperatures Low-adhesive surface

#### Norm references / Approvals

Designed for up to 5 million torsion cycles For use in power chains: Please comply with assembly guideline Appendix T3 For travel distances up to 10 m

#### Product Make-up

Fine or extra-fine strands made of bare copper wire Core insulation: TPE Cores twisted in layers Wrapping of PTFE tape Spiral shield made of tinned copper wires PUR outer sheath, black (similar RAL 9005)

### **Technical Data**

Classification ETIM 5: ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable Classification ETIM 6: ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control cable Up to 0.34 mm<sup>2</sup>: DIN 47100 cores Core identification code: From 0.5 mm<sup>2</sup>: black cores with white numbers Mutual capacitance: C/C approx. 100 nF/km C/S approx. 120 nF/km Inductivity: approx. 0.7 mH/km Conductor stranding: Fine wire or extra-fine wire Torsion load max. ± 180 °/m Torsion:

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## ÖLFLEX® ROBOT 900 DP

Minimum bending radius:	Flexing: 15 x outer diameter Fixed installation: 4 x outer diameter	
Nominal voltage:	Up to 0,34 mm <sup>2</sup> : 48 V AC From 0.5 mm <sup>2</sup> U0/U: 300/500 V	
Test voltage:	Up to 0.34 mm <sup>2</sup> : 1500 V From 0.5 mm <sup>2</sup> : 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	

#### Note

Unless specified otherwise, the shown product values are nominal values at room temperature. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
0028100	12 x 0,14	6.7	42.5	69
0028105	3 x 2 x 0,14	6.2	17	44
0028126	25 x 0,25	11.1	103.5	183
0028135	4 x 0,34	5.7	21.3	46
0028136	5 x 2 x 0,34	9.1	64.4	114
Numbered Cores				
0028195	12 G 1,5	14.0	259	395

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