

## ÖLFLEX® DC ROBOT 900

Abrasion- and oil-resistant PUR robot cable for dynamic bending and torsion motions

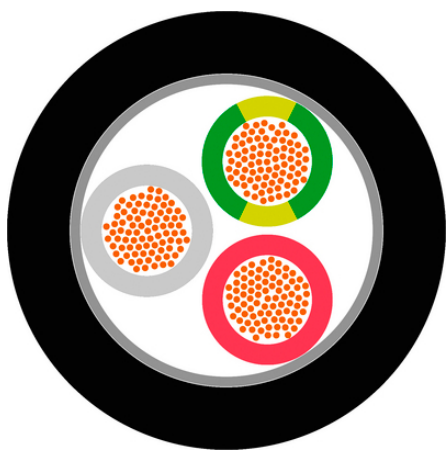
ÖLFLEX® DC ROBOT 900 - DC power and control cable for bending and torsional load in harsh environmental conditions

### Info

Designed for DC applications in industrial environment with color code acc. EN 60445

Simultaneous bending and torsion

Torsion angle up to  $\pm 360^\circ/\text{m}$



Supplementary automation components from Lapp



Suitable for outdoor use



Cold-resistant



Mechanical resistance



Oil-resistant



Power chain



Torsion-resistant



UV-resistant

### Benefits

Last Update (27.04.2024)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## ÖLFLEX® DC ROBOT 900

With color code according to EN 60445 for DC systems

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

### Application range

For DC applications in the low-voltage range.

Industrial machinery and machine tools

Automated handling equipment

Automotive industry

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

Color code according to EN 60445 for DC systems

### Norm references / Approvals

Color code according to EN 60445 for DC systems

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

Extra-fine wire strand made of bare copper wires (class 6)

Core insulation: TPE

Cores twisted in layers in short lay lengths

Non-woven wrapping

PUR outer sheath, black (similar RAL 9005)

### Technical Data

Classification ETIM 5:

ETIM 5.0 Class-ID: EC001578

ETIM 5.0 Class-Description: Flexible cable

Classification ETIM 6:

ETIM 6.0 Class-ID: EC001578

ETIM 6.0 Class-Description: Flexible cable

Core identification code:

According to EN 60445

red, white, green-yellow

Conductor stranding:

Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6

Torsion:

Torsion load max.  $\pm 360^\circ/\text{m}$

Minimum bending radius:

For flexible use: 12,5 x outer diameter

Fixed installation: 4 x outer diameter

Nominal voltage:

DC (core-ground): max. 0,75 kV

DC (core-core): max. 1,5 kV

Test voltage:

4000 V

Protective conductor:

G = with GN-YE protective conductor

X = without protective conductor

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## ÖLFLEX® DC ROBOT 900

Temperature range:

Flexing: -35°C up to +90°C

Fixed installation: -50°C to +90°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](http://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.

**ÖLFLEX® DC ROBOT 900**

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Weight (kg/km)
11101400	3 G 0.5	6.4	60
11101409	3 G 0.75	6.6	64
11101410	3 G 1.0	7.1	74
11101401	3 G 1.5	7.7	90
11101402	3 G 2.5	9.3	140
11101403	3 G 4.0	10.6	200
11101404	3 G 6.0	12.1	320
11101405	3 G 10.0	15.1	410
11101406	3 G 16.0	18.8	660
11101407	3 G 25.0	22.7	960
11101408	3 G 35.0	25.5	1290