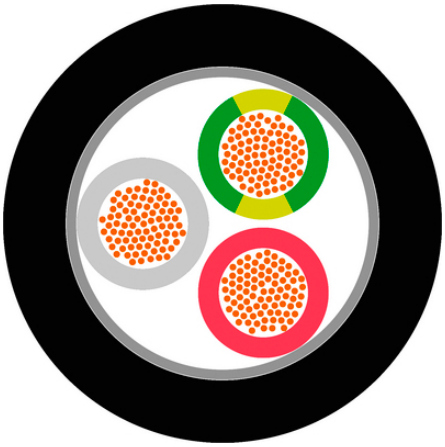
ÖLFLEX® DC ROBOT 900

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 +/- 360 °/m



- Supplementary automation components from Lapp
- Suitable for outdoor use
- Cold-resistant
- Mechanical resistance
- Oil-resistant
- Power chain
- Torsion-resistant
- UV-resistant

Benefits

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. ± 360 °/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

Last Update (30.04.2024)

Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

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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
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.

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Article number	Number of cores and mm² 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

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