

## ÖLFLEX® ROBOT 900 P

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

ÖLFLEX® ROBOT 900 P - Power and control cable für bending and torsional load in harsh environmental conditions

### Info

Simultaneous bending and torsion

Torsion angle up to +/- 360 °/m



UV-resistant



Torsion-resistant



Power chain



Oil-resistant



Mechanical resistance



Automation & fältinstallation



Suitable for outdoor use



Cold-resistant

Last Update (01.01.2018)

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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® ROBOT 900 P

### 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

### 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

Versions with additional center pair:

2 cores twisted to a pair, PTFE foil wrapping, layer of tinned copper wires

Wrapping of PTFE tape

PUR outer sheath, black (similar RAL 9005)

## ÖLFLEX® ROBOT 900 P

### 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
Core identification code:	Up to 0.34 mm <sup>2</sup> : DIN 47100 cores From 0.5 mm <sup>2</sup> : black cores with white numbers, cores of screened pair (2 x 1.0) are marked with no. 1 + 2
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:	Torsion load max. ± 360 °/m
Minimum bending radius:	For flexible use: 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](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.

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Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
0028110	7 X 0.25	6.2	16.8	48
0028116	25 X 0.25	10.2	60	141
0028188	2 X 0.34	5	7	27
Numbered Cores				
0028145	18 G 0.5	11.2	86.4	120
0028146	25 G 0.5	13.3	120	254
0028160	4 G 0.75	6.6	28.8	63
0028164	14 G 0.75	11.2	100.8	199
0028170	2 X 1	6.2	19.2	47
0028171	3 G 1	6.5	29	61
0028172	4 G 1	7	38.4	76
0028174	7 G 1	9.3	67.2	131
0028176	12 G 1	11.5	115.2	216
0028185	16 G 1,0 + (2 x 1,0)	16	195	376
0028178	18 G 1	13.2	172.8	287
0028186	23 G 1,0 + (2 x 1,0)	17.3	262	470
0028180	25 G 1	16.4	240	433
0028190	34 G 1	19.9	326.4	571
0028191	41 G 1	22.3	393.6	705
0028198	18 G 1.5	15.8	259.2	446
0028181	3 G 2.5	9.3	72	136
0028182	4 G 2.5	10.1	96	171
0028400	3 G 16	21.4	460.8	721
0028187	3 G 25	26.2	720	1178
0028189	3 G 35	28.8	1008	1559

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