

ÖLFLEX® ROBOT 900 P

TPE-PUR robot cable, for flexing and torsion load

LAPP KABEL STUTTGART ÖLFLEX® ROBOT 900 P CE



Info

- Bending and torsion: All-in-once

Benefits

- Space saving installation due to small cable diameters
- Warehouse available High-Tec Robot cables!
- Protected against water and dirt
- Wear-resistant

Application range

- Plant engineering
- Machine tools
- Automated handling equipment
- Multi-axis articulated robots
- In power chains or moving machine parts

Product features

- Abrasion and cut resistant
- Hydrolysis resistant

- Oil resistant
- Low adhesive surface
- Flame retardant

Approvals (Norm references)



- Usage in Power Chains: Please comply with the assembly guidelines Appendix T3
- For travel distances up to 10 m.

Design

- Fine or superfine strands of plain copper wire
- Core insulation: TPE
- Cores twisted in layers
- PTFE tape wrapping
- Polyurethane sheath (PUR), black (RAL 9005)

Technical data

- Core identification code**
Up to 0.34 mm²: DIN 47100 cores
Starting at 0.50 mm²: black cores with white printed numbers
- Mutual capacitance**
C/C approx. 100 nF/km
C/S approx. 120 nF/km
- Peak working voltage**
0.34 mm²: 350 V (not for high current purposes)
- Based on**
VDE 0281/0282
VDE 0812
- Specific insulation resistance**
> 20 GOhm x cm
- Inductivity**
Approx 0.7 mH/km
- Conductor stranding**
Fine wire or superfine wire
- Torsion**
Torsion load max.
Without screening: +/- 360° /m with screening (DP) +/- 180° /m
- Minimum bending radius**
Flexing: 15 x cable diameter
Static:
4 x cable diameter
- Rated voltage**
48 V AC
Starting at 0.5 mm² U0/U: 300/500 V
- Test voltage**
Up to 0.34 mm²: 1500 V
Starting at 0.5 mm²: 3000 V
- Protective conductor**
G = with protective conductor GN/YE
X = without protective conductor
- Range of temperature**
Flexing: -40°C up to +80°C
Fixed installation: -50°C up to +80°C
Core insulation: Capable of temporary overload up to +120 °C

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
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0028110	7 X 0.25	6.2	16.8	48
0028116	25 X 0.25	10.2	60.0	141
0028188	2 X 0.34	5.0	7.0	27
0028145	18 G 0.5	11.2	86.4	120
0028146	25 G 0.5	13.3	120.0	254
0028160	4 G 0.75	6.6	28.8	63
0028164	14 G 0.75	11.4	100.8	199
0028170	2 X 1	6.2	19.2	47
0028171	3 G 1	6.5	29.0	61
0028172	4 G 1	7.2	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 DP)	16.5	195.0	376
0028178	18 G 1	13.2	172.8	287
0028186	23 G 1,0 + (2 X 1 DP)	17.3	262.0	470
0028180	25 G 1	16.4	240.0	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	72.0	136
0028182	4 G 2.5	10.1	96.0	171
0028400	3 G 16	21.4	460.8	721
0028187	3 G 25	26.2	720.0	1,178
0028189	3 G 35	28.8	1,008.0	1,559

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17
 Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ÖLFLEX® ROBOT F1 see page 133

Accessories

- SILVYN® RILL PA 12 see page 781