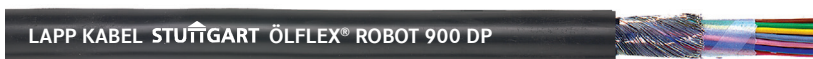


# ÖLFLEX® ROBOT 900 P/900 DP

Robotic Cable for Flexing & Torsion Motion



ÖLFLEX® ROBOT 900 P is a multi-conductor control and signal monitoring cable. It is designed to withstand the extreme demands of twisting and bending stresses in robotic applications. ÖLFLEX® ROBOT 900 DP has a tinned copper spiral shield and is designed for use where EMI emissions need to be suppressed.

## Recommended Applications

Multi-axis articulated robots with twisting and bending motion; automated handling equipment; cable tracks or moving machine parts.

## Approvals



## Unshielded Construction

**Conductors:** Finely stranded bare copper

**Insulation:** TPE; conductors twisted in layers with low-friction core wrap

**Jacket:** Polyurethane; black

## Shielded Construction

**Conductors:** Finely stranded bare copper

**Insulation:** TPE; conductors twisted in layers with low-friction core wrap

**Shielding:** Tinned copper spiral shield

**Jacket:** Polyurethane; black

## Application Advantage

- Designed for applications where combined twisting and bending occur
- Specially formulated PUR jacket protects against the harshest of industrial plant environments
- Maximum twist of  $\pm 360^\circ$  /m unshielded for wide variety of robot applications

Cable Attributes		page 640
OIL	OR-05	FLAME
MOTION	T-01	MECH.
		FR-02
		MP-05

Complete the Installation	
SKINTOP® Strain Relief	EPIC® Connectors
page 488	page 280

## Technical Data

<b>Minimum Bend Radius:</b>	- unshielded: 15 x cable diameter - shielded: 15 x cable diameter	<b>Test Voltage:</b>	- up to 22 AWG: 1500V - 20 AWG & larger: 3000V
<b>Maximum Torsion (Twist):</b>	- unshielded: $\pm 360^\circ$ /m - shielded: $\pm 180^\circ$ /m	<b>Conductor Stranding:</b>	Extra fine wire
<b>Temperature Range:</b>	- for flexible use: -40°C to +80°C	<b>Color Code:</b>	- up to 22 AWG: DIN 47100: Chart 8, page 674 - 20 AWG & larger: Black with white numbers, plus green/yellow ground
<b>Nominal Voltage:</b>	300/500V	<b>Approvals:</b>	CE & RoHS Based on VDE 0281/0282 & 0812

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question. For current information go to our website.