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.

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

Recommended Applications

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

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 ± 360°/m unshielded for wide variety of robot applications

Approvals

CE RoHS

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

Complete the Installation

SKINTOP® Strain Relief page 488

EPIC® Connectors page 280

Technical Data

Minimum Bend Radius:
- unshielded: 15 x cable diameter
- shielded: 15 x cable diameter

Maximum Torsion (Twist):
- unshielded: ± 360°/m
- shielded: ± 180°/m

Temperature Range:
- for flexible use: -40°C to +80°C

Nominal Voltage: 300/500V

Test Voltage:
- up to 22 AWG: 1500V
- 20 AWG & larger: 3000V

Conductor Stranding: Extra fine wire

Color Code:
- up to 22 AWG: DIN 47100: Chart 8, page 674
- 20 AWG & larger: Black with white numbers, plus green/yellow ground

Approvals: CE & RoHS
Based on VDE 0281/0282 & 0812