

Robotic Torsion Communication Cable FD 938 CY-TP

This cable is designed for movement applications with torsion, making it suitable for industrial robots and manipulators. It demonstrates good resistance to oil and can be used in high-temperature environments.



Overview

Robotic Torsion Communication Cable

This high-performance communication cable is engineered specifically for demanding robotic applications involving continuous flexing and torsion. It features an ultra-fine stranded bare copper conductor and a robust PVC jacket, ensuring extreme resistance to oil, abrasion, and hydrolysis. Designed for reliability, it provides excellent EMI protection and maintains flexibility even in challenging industrial environments.

Electrical Specifications

Rated Voltage

300 V

UL/CSA

300 V

IEC/VDE ($\leq 0.5\text{mm}^2$)

500 V

IEC/VDE ($> 0.5\text{mm}^2$)

Test Voltage

2000V/min (AC) for both core/core and core/shield

Insulation Resistance (20°C)

e100M@1m

Mechanical & Environmental

Temperature Range

Application	Range
Fixed	-40°C to 105°C
Mobile	-5°C to 105°C

Minimum Bending Radius

- Fixed Application: 3D (D=cable diameter)
- Mobile Application: 5D (D=cable diameter)

Drag Chain Application

10000000 cycles

Construction

Conductor	Ultra-fine stranded bare copper (IEC 60228/VDE 0295 class 6)
Insulation	TPEE
Shielding	Tinned copper spiral shield
Jacket Color	Grey (RAL 7001)

Certifications & Features

Certifications

UL2517

Key Features

Torsion Resistant, Bending Resistant, Oil Resistant, Abrasion Resistant, Anti-Hydrolysis, EMI Shielded, Flame Resistant (VW-1/FT1)