Robotic Hybrid Multibus Cable

This cable is extremely suitable for robotic systems. Power and data wires are combined in one cable for use in robot dress packages.

Overview

Robotic Hybrid Multibus Cable

This high-performance hybrid multibus cable is engineered specifically for demanding robotic and industrial automation environments. It features a robust construction with ultra-fine stranded copper conductors and a PUR jacket, ensuring exceptional resistance to oil, abrasion, and hydrolysis. Designed for continuous movement, the cable offers excellent flexibility and torsion resistance, making it an ideal solution for applications requiring reliable data transmission and power delivery in high-motion settings.

Electrical Specifications

Test Voltage

1500 V/min	1000 V/min
Core/Core	Core/Shield

Characteristic Resistance (@1MHz)

Protocol	Resistance
Interbus	100±15©
Profibus	150±15©
Devicenet	120±15©

Rated Voltage	30V (UL/CSA)
Insulation Resistance	e100M&m (at 20°C)

Mechanical & Environmental

Temperature Range

Application	Range
Fixed	-40°C to 80°C
Mobile	-30°C to 80°C

Minimum Bending Radius

5 D	12 D
Fixed	Mobile

Construction

Material Composition

- Conductor: Ultra-fine stranded bare copper (IEC 60228/VDE 0295 class 6)
- Insulation: Profibus (foam PE), Devicenet & Interbus (PE)
- Power Core: TPE
- Shielding: Tinned copper braiding
- Jacket: PUR

Jacket Color	Purple (similar to RAL 4001)

Features

Key Features

Halogen Free • Flame Resistant • Oil Resistant • Abrasion Resistant • Anti-hydrolysis • EMI Shielded