

DeviceNet Thin LSZH Multipair Cable

pro-POWER

RoHS
Compliant



Application

This DeviceNet Thin multipair cable is suitable for fixed and occasional flexing indoor applications in CAN technologies. LSZH (Low Smoke Zero Halogen) sheath. The accurate construction and the high shielding efficiency guarantee excellent transmissive performances in environments particularly polluted by electromagnetic interferences. Connects industrial devices, motor starters and PLCs.

Characteristics

Max. Operating Voltage	: 125V
Temperature Rating	: Fixed: -20°C to +80°C Flexed: -5°C to +50°C
Minimum Bending Radius	: 10 × overall diameter

Cable Standards

Flame Retardant according to BS EN/IEC 60332-1
Low Smoke Density / Halogen free according to IEC 61034-2,
IEC 60754-1



UK Laboratory Tested

This product is subject to the Quality Assurance protocols of The Cable Lab®, a UKAS accredited ISO 17025 cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



Regulatory Compliance

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



Construction

Conductor

Data Pair: Class 2 Stranded tinned copper wires - 24×19AWG (0.25mm²)
Power Pair: Class 2 Stranded tinned copper wires - 22×19AWG (0.35mm²)

Insulation

Pair 1 - Data: Foam-skin PE (Polyethylene)
Pair 2 - Power: Solid PE (Polyethylene)

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Shield

AL/PET (Aluminium/Polyester Tape)

Drain Wire

Tinned copper - 24AWG

Overall Shield

TCWB (Tinned Copper Wire Braid)

Sheath

FRNC-LSZH (Flame Retardant Non Corrosive - Low Smoke Zero Halogen)

Core Identification

Pair 1: White and Blue

Pair 2: Black and Red

Sheath Colour

Violet

Dimensions

Nominal Cross Sectional Area of Data Pair Conductor mm ²	Nominal Cross Sectional Area of Power Supply Pair Conductor mm ²	Nominal Coverage Metallic Braid	Nominal Diameter of Outer Sheath mm	Nominal Weight kg/km
0.25	0.35	65%	6.9	70

Electrical Characteristics at 20°C

DC Conductor Resistance Ω/km		Capacitance at 800 Hz Data Pair nF/km	Impedance ≥ 1 MHz Data Pair Ω	Attenuation Data Pair dB/100m			Dielectric Strength kV AC / 1min	Min. Insulation Resistance GΩxkm	Transfer Impedance at 10 MHz mΩ/m
Data	Power Supply Pair			AT 125 kHz	AT 500 kHz	AT 1 MHz			
77	52	40	120	0.9	1.6	2.1	1.5	5	7

Part Number Table

Description	Reel Length	Part Number
DeviceNet Thin LSZH Multipair Cable	100m	PP001547

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