

DeviceNet LSZH

Shielded Multipaired Cable

pro-POWER



RoHS
Compliant

Application:

A DeviceNet cable suitable for fixed application with 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.

Cable Standards:

Made in accordance with the following:

BS EN/IEC 60332-1, BS EN/IEC 61034-2,
BS EN/IEC 60754-1, BS EN 50267-2-1, BS EN 50267-2-2

Construction:

Conductor	: Pair 1 - Data: Stranded tinned copper - 24AWG (0.25mm ²) Pair 2 - Power: Stranded tinned copper - 22AWG (0.35mm ²)
Insulation	: Pair 1 - Data: Foam-skin PE (Polyethylene) Pair 2 - Power: Solid PE (Polyethylene)
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)

Characteristics:

Voltage Rating	: 125V
Temperature Rating	: Fixed -20°C to +80°C Flexed -5°C to +50°C
Min. Bending Radius	: 10 × overall diameter
Insulation Identification	: Pair 1: Blue and White Pair 2: Red and Black
Sheath Colour	: Grey

Electrical Characteristics:

Electrical and Transmission Properties at 20°C

Max. DC Resistance of Conductor	: 77Ω/km (Data Pair) 52Ω/km (Power)
Capacitance at 800Hz	: 39nF/km (Data Pair)
Propagation Velocity at 10MHz	: 76% (Data Pair)
Impedance at 1MHz	: 120Ω (Data Pair)
Attenuation at 150kHz	: 1.0dB/100m
Attenuation at 500kHz	: 1.6dB/100m
Attenuation at 1MHz	: 2.3dB/100m
Dielectric Strength (Conductor/Conductor)	: 0.7kV AC / 1min
Dielectric Strength (Conductor/Shield)	: 0.7kV AC / 1min
Min. Insulation Resistance	: 5.0GΩ/km (Data Pair) 1GΩ/km (Power)
Transfer Impedance at 10MHz	: 15mΩ/m (Data Pair)

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Dimensions:

No. of Pairs	Nominal Overall Diameter	Nominal Weight kg/km
2	6.9mm	70

Part Number Table

Description	Reel Length (m)	Part Number
DeviceNet LSZH Shielded Multipaired Cable	50	PP000902

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