

DeviceNet Thick LSZH Shielded Multipaired Cable

pro-POWER



RoHS
Compliant

Application:

A flexible LSZH (Low Smoke Zero Halogen) cable, designed for the use on DeviceNet systems. The cable incorporates both a power and data pair for backbone wiring. These cables are also referred to as DeviceNet Trunk cables.

Cable Standards:

Made in accordance with the following:

BS EN/IEC 61158, BS EN/IEC 62026-3, BS EN/IEC 60332-1,
BS EN/IEC 61034-2, BS EN/IEC 60754-1,
BS EN/IEC 60754-2, BS EN 50267-2-1, BS EN 50267-2-2

Construction:

| | |
|-------------------|---|
| Conductor | : Pair 1 - Data: Stranded tinned copper conductor - 18/19AWG (0.93mm ²) Pair 2 - Power: Stranded tinned copper conductor - 15/19AWG (1.93mm ²) |
| Insulation | : Pair 1 - Data: Foam-skin PE (Polyethylene) Pair 2 - Power: Solid PE (Polyethylene) |
| Individual Shield | : AL/PET (Aluminium/Polyester Tape) |
| Drain Wire | : Tinned copper |
| Overall Shield | : TCWB (Tinned Copper Wire Braid) |
| Sheath | : FRNC-LSZH (Flame Retardant Non Corrosive - Low Smoke Zero Halogen) |

Characteristics:

| | |
|---------------------|---|
| Voltage Rating | : 300V |
| Temperature Rating | : -30°C to +80°C |
| Min. Bending Radius | : 10 × overall diameter |
| Insulation Colour | : 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 | : 23.2Ω/km (Data Pair) 11.3Ω/km (Power) |
| Capacitance at 800Hz | : 40nF/km (Data Pair) |
| Impedance Above 1MHz | : 120Ω (±10%) (Data Pair) |
| Attenuation at 125kHz | : 0.4dB/100m (Data Pair) |
| Attenuation at 500kHz | : 0.8dB/100m (Data Pair) |
| Attenuation at 1MHz | : 1.25dB/100m (Data Pair) |
| Dielectric Strength (Conductor/Conductor) | : 2kV AC / 1min |
| Dielectric Strength (Conductor/Shield) | : 2kV AC / 1min |
| Min. Insulation Resistance | : 5.0GΩ/km |
| Transfer Impedance at 10MHz | : 15mΩ/m |

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Dimensions:

| No. of Pairs | Nominal Overall Diameter | Nominal Weight kg/km |
|--------------|--------------------------|----------------------|
| 2 | 11.9mm | 220 |

Part Number Table

| Description | Reel Length (m) | Part Number |
|--|-----------------|-------------|
| DeviceNet Thick LSZH Shielded Multipaired Cable | 50 | PP000903 |

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