DeviceNet Thick
FRNC-LSZH Multipair Cable

multicomp PRO

RoHS Compliant

Application

This DeviceNet Thick multipair cable is suitable for fixed and occasional flexing indoor applications in CAN technologies. Connects industrial devices, motor starters and PLCs. Commonly used as trunk cables for industrial ethernet installations.

Characteristics

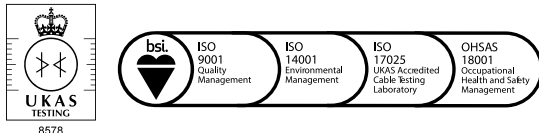|	
Max. Operating Voltage	: 300V
Temperature Rating	: -30°C to +80°C
Minimum Bending Radius	: 15 × overall diameter

Cable Standards

BS EN 50267-2-1, BS EN 50267-2-2,
Flame Retardant according to IEC 60332-1-2
Low Smoke Density / Halogen free according to IEC 61034-2,
IEC 60754-1/2

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: Stranded tinned copper wires – 18 × 19 AWG (0.25mm^2)
Power Pair: Stranded tinned copper wires –15 × 19 AWG (0.35mm^2)

Insulation
Data Pair: Foam-Skin Polyethylene
Power Supply Pair: Solid Polyethylene

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Individual Pair Shield
AL/PET (Aluminium/Polyester Tape)

Drain Wire
Tinner Copper

Overall Shield
TCWB (Tinned Copper Wire Braid)

Separation
PET (Polyester Tape)

Sheath
FRNC-LSZH (Fire Retardant Non-Corrosive Low Smoke Zero Halogen) compound

Core Identification
Data Pair: White and Blue
Power Supply Pair: Black and Red

Sheath Colour
Violet

Dimensions

Nominal Cross Sectional Area of Data Pair Conductor mm²	Nominal Cross Sectional Area of Power Supply Pair Conductor mm²	Nominal Coverage of Wire Braid	Nominal Diameter of Outer Sheath mm	Nominal Weight kg/km
0.93	1.93	65%	11.9	220

Electrical Characteristics at 20ºC

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			
23.2	11.3	40	120	0.4	0.8	1.25	2	5	15

Part Number Table

Description	Reel Length	Part Number
DeviceNet Thick FRNC-LSZH Multipair Cable	100m	PP001548

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