

# Profibus DP Fast-Connect L2/FIP LSZH Single Pair Cable

pro-POWER

RoHS  
Compliant



## Application

This single pair Profibus DP cable for Fast-Connect, installed indoors in fixed and occasional flexing applications. A fieldbus standard that supports a wide variety of Profibus DP (Decentralized Peripherals) applications in automated manufacturing. Depending on bit rates, segment lengths of up to 1,200m can be achieved.

## Characteristics

Max. Operating Voltage	: 300V
Temperature Rating	: Fixed: -40°C to +70°C Flexed: -10°C to +50°C
Minimum Bending Radius	: Fixed 12 × overall diameter

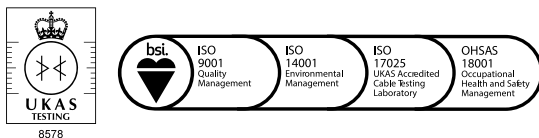
## Cable Standards

IEC 61158, BS EN 50170, CEI 20-37/7, CEI 20-38  
Fire Retardant according to: IEC 60332-1  
Low Smoke Density / Halogen free according to: 61034-2, IEC 60754-1/2



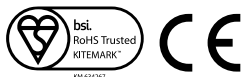
## UK Laboratory Tested

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

Solid Bare Copper Wire (22 AWG)

### Insulation

Foam-Skin Polyethylene

### Separator

PET (Polyester Tape)

www.element14.com  
www.farnell.com  
www.newark.com  
www.cpc.co.uk

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## Inner Sheath

Flame Retardant Halogen Free Compound

## Shield

AL/PET (Aluminium/Polyester Tape)

## Braid

Tinned Copper Wires, 60% Coverage

## Sheath

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

## Core Identification

Green and Red

## Sheath Colour

Violet

## Dimensions

No. of Pairs	Nominal Cross Sectional Area mm <sup>2</sup>	Nominal Diameter of Conductor mm	Nominal Diameter of Insulation mm	Nominal Outer Diameter of Inner Sheath mm	Nominal Diameter of Outer Sheath mm	Nominal Weight kg/km
1	0.35	0.64	2.5	5.5	7.9	76

## Electrical Characteristics at 20°C

Max. DC Loop Conductor Resistance Ω/km	Max. DC Conductor Resistance Ω/km	Capacitance at 800 Hz nF/km	Impedance (3÷20 MHz) Ω (±10%)	Maximum Attenuation dB/km			
				9.6kHz	38.4kHz	4kHz	16kHz
115	57.5	29	150	0.3	0.5	2.1	4

Dielectric Strength kV AC / 1 min		Minimum Insulation Resistance GΩ × km	Maximum Installation Pulling N
Cond/Cond	Cond/Shield		
1.5	1.5	5	100

## Part Number Table

Description	Reel Length	Part Number
Profibus DP Fast-Connect L2/FIP LSZH Single Pair Cable	100m	PP001649

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