

# Profibus DP LSZH Shielded Paired Cable

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RoHS  
Compliant



## Application:

Fieldbus cable for fixed application fast connect type system with LSZH (Low Smoke Zero Halogen) sheath. High shielding efficiency and electrical-transmissive performances. Specific for PROFIBUS DP type applications.

## Cable Standards:

Made in accordance with the following:

BS EN/IEC 61158, BS EN 50170, 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	: Class 1 solid copper conductor according to BS EN 60228
Insulation	: Foam-skin PE (Polyethylene)
Separation	: PET (Polyester Tape)
Filler	: Flame retardant halogen free compound
Shield 1	: AL/PET (Aluminium/Polyester Tape)
Shield 2	: TCWB (Tinned Copper Wire Braid)
Sheath	: FRNC-LSZH (Flame Retardant Non Corrosive - Low Smoke Zero Halogen)

## Characteristics:

Voltage Rating	: 300V
Temperature Rating	: -40°C to +80°C
Min. Bending Radius	: 10 × overall diameter
Core Identification	: Green and Red
Sheath Colour	: Violet

## Electrical Characteristics:

Electrical and Transmission Properties at 20°C

Max. DC Conductor Resistance	: 57.5Ω/km
Capacitance at 800Hz	: 29nF/km
Impedance (above 1MHz)	: 150Ω (±10%)
Attenuation at 9.6kHz	: 0.3dB/100m
Attenuation at 38.4kHz	: 0.5dB/100m
Attenuation at 4MHz	: 2.1dB/100m
Attenuation at 16MHz	: 4.0dB/100m
Dielectric Strength (Conductor/Conductor)	: 1.5kV AC / 1min
Dielectric Strength (Conductor/Shield)	: 1.5kV AC / 1min
Min. Insulation Resistance	: 5.0GΩ / km
Transfer Impedance at 10MHz	: 10mΩ/m

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## Dimensions:

No. of Pairs	Diameter of Conductor	Nominal Overall Diameter	Nominal Weight kg/km
1	0.64mm	7.9mm	76

## Part Number Table

Description	Reel Length (m)	Part Number
Profibus DP LSZH Shielded Paired Cable	100	PP000900

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