Profibus PA LSZH Shielded Paired Cable





RoHS Compliant

Application:

A Low Smoke Zero Halogen (LSZH) Fieldbus cable for fixed applications. Designed for data transmission in intrinsically safe systems with Profibus PA (Process Automation) technology.

Cable Standards:

Made in accordance with the following:

BS EN/IEC 61158, BS EN 50170, BS EN/IEC 60332-1-2,

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

Construction:

Conductor: Class 1 solid copper conductorInsulation: Solid PE (Polyethylene)Separation: PET (Polyester Tape)Filler: 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 (not for power purposes)

Temperature Rating : -30°C to +80°C

Min. Bending Radius : 10 × overall diameter

Core Identification : Green and Red

Sheath Colour : Blue

Electrical Characteristics:

Electrical and Transmission Properties at 20°C

Max. DC Resistance of Conductor : 22Ω/km : 60nF/km Capacitance at 800Hz Impedance at 1MHz : 80Ω (±15%) Impedance at 31.25kHz : 100Ω (±15%) Impedance at 39kHz : 100Ω (±15%) Impedance (3/20MHz) : 150Ω (±10%) Inductance at 31.25kHz : 0.7mH/km Nominal Attenuation at 1MHz : 15dB/km Nominal Attenuation at 100kHz : 4.0dB/km Max. Attenuation at 39kHz : 3.0dB/km Max. Propagation Delay Change (7.9/39kHz): 1.7µsec/km Dielectric Strength (Conductor/Conductor) : 2.5kV AC / 1min Dielectric Strength (Conductor/Shield) : 2.5kV AC / 1min Min. Insulation Resistance : $5.0G\Omega/km$ Transfer Impedance at 100kHz : 15mΩ/m

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Dimensions:

No. of Pairs	Conductor	Nominal Overall	Nominal Weight
	Cross Section	Diameter	kg/km
1	0.85mm	7.6mm	89

Part Number Table

Description	Reel Length (m)	Part Number
Profibus PA LSZH Shielded Paired Cable	100	PP000901

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