

# Profibus PA LSZH Shielded Paired Cable

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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 conductor                                     |
| Insulation | : 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          |
| Capacitance at 800Hz                      | : 60nF/km         |
| 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                | : 5.0GΩ/km        |
| Transfer Impedance at 100kHz              | : 15mΩ/m          |

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## Dimensions:

| No. of Pairs | Conductor Cross Section | Nominal Overall Diameter | Nominal Weight 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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