



Product: [70001LS](#) 

Profibus PA, 1PR #18 Str TC, PO ins, F/B, LSZH Jkt, 300 V

Product Description

Profibus PA, 1 Pair AWG 18 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid(s) shielding, LSZH / FRNC jacket , 300 V

Technical Specifications

Product Overview

Suitable Applications:	Profibus PA or Foundation FieldBus PA
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Construction Details

Conductor

Element	Size	Stranding	Material
Pair(s)	18	7x26	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.65 mm (0.026 in)	2.5 mm (0.098 in)	Red & Green

Inner Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	
Braid	Tinned Copper (TC)	85%

Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Color
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.15 mm (0.0453 in)	8 mm (0.31 in)	Black or Blue

Inner Jacket Table Notes:	UV Stabilised
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Armor

Armor Type & Material	Armor Thickness	Coverage
SWA - Steel Wire Armor	0.9 mm	Min. 95%

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.27 mm (0.0500 in)	12.8 mm

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance	Nom. Characteristic Impedence	Nom. Velocity of Prop.
20.5 Ohm/km	4 pF/m	100 Ohm	77%

High Frequency (Nominal/Typical)

Frequency	Nom. Insertion Loss (Attenuation) [dB/100m]
0.039 MHz	0.3

Mechanical Characteristics

Temperature

Installation	Storage
-15°C To +70°C	-45°C To +70°C

Bend Radius

Installation Min.
120 mm

Max. Pull Tension:	50 N (11 lbf)
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Standards and Compliance

Environmental Suitability:	IndoorIndoor/OutdoorOutdoorIndoor/Outdoor - Euroclass Eca, Sunlight Resistance
Flammability / Reaction to Fire:	IEC 60332-3-24
CEC / C(UL) Compliance:	.
CENELEC Compliance:	EN 50290-2-20
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3

History

Update and Revision:	Revision Number: 0.227 Revision Date: 02-20-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
70001LS.00120	Black	Reel	120 m	8719605009050
70001LS.00500	Black	Reel	500 m	8719605009067
70001LS.001000	Black	Reel	1,000 m	8719605009043
70001LS.01500	Blue	Reel	500 m	8719605009081
70001LS.011000	Blue	Reel	1,000 m	8719605009074
70001LS.021000	Orange	Reel	1,000 m	8719605009098

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