

Profibus PA LSZH Single Pair Cable **multicomp** PRO



**RoHS
Compliant**

Application

This single pair Profibus PA cable for industrial fieldbus systems particularly developed for process automation and instrumentation applications including connecting sensors and actuators in hazardous and intrinsically safe areas.

Characteristics

Max. Operating Voltage	: 300V
Temperature Rating	: Fixed: -30°C to +80°C
Minimum Bending Radius	: Fixed 10 × overall diameter

Cable Standards

BS EN 50267-2-1, BS EN 50267-2-2, IEC 61158
Flame Retardant according to IEC 60332-1-2
Low Smoke Density / Halogen free according to IEC 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 (18 AWG)

Insulation

Solid PE (Polyethylene)

Bedding

PET (Polyester Tape)

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicomp PRO

Profibus PA LSZH Single Pair Cable **multicomp**PRO

Filler

Halogen Free Compound

Shield

AL/PET (Aluminium/Polyester Tape)

Braid

TCWB (Tinned Copper Wire Braid) 60% Coverage

Sheath

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

Core Identification

Green and Red

Sheath Colour

Blue

Dimensions

No. of Pairs	Nominal Cross Sectional Area mm ²	Nominal Diameter of Conductor mm	Nominal Diameter of Insulation mm	Nominal Outer Diameter of Filler Sheath mm	Nominal Diameter of Outer Sheath mm	Nominal Weight kg/km
1	0.85	1.04	2.5	5.5	7.6	89

Electrical Characteristics at 20°C

Max. DC Conductor Resistance Ω/km	Capacitance at 800 Hz nF/km	Impedance (3÷20 MHz) Ω (±10%)	Impedance Ω			Attenuation dB/km		
			31.25kHz	39kHz	1MHz	Max. at 39kHz	Nominal at 100kHz	Nominal at 1MHz
22	60	150	100	100	80	3	4	15

Inductance at 31.25 kHz mH/km	Dielectric Strength kV AC / 1 min		Minimum Insulation Resistance GΩ × km	Transfer Impedance mΩ/M		Maximum Installation Pulling N
	Cond/Cond	Cond/Shield		100kHz	1MHz	
0.7	2.5	2.5	5	15	10	120

Part Number Table

Description	Reel Length	Part Number
Profibus PA LSZH Single Pair Cable	100m	PP001650

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro

multicompPRO