Profibus PA PVC Single Pair Cable





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.

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



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 KitemarkTM.





Construction

Conductor

Solid Bare Copper Wire (18 AWG)

Insulation

Solid PE (Polyethylene)

Separator

PET (Polyester Tape)

Filler

PET (Polyethylene Terephthalate) fibres

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Shield

AL/PET (Aluminium/Polyester Tape)

Braid

TCWB (Tinned Copper Wire Braid) 60% Coverage

Sheath

PVC (Polyvinyl Chloride)

Core Identification

Green and Red

Sheath Colour

Blue

Dimensions

No. of Pairs	Nominal Cross Sectional Area mm²	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

1	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
2	.2	60	150	100	100	80	3	4	15

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

Part Number Table

Description	Reel Length	Part Number	
Profibus PA PVC Single Pair Cable	100m	PP001543	

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