



**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

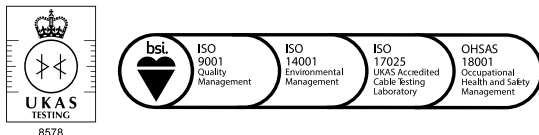
## Cable Standards

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 Kitemark™.



## Construction

### Conductor

Solid Bare Copper Wire (18 AWG)

### Insulation

Solid PE (Polyethylene)

### Separator

PET (Polyester Tape)

### Filler

PET (Polyethylene Terephthalate) fibres

# Profibus PA PVC Single Pair Cable



## 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 mm <sup>2</sup>	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 PVC Single Pair Cable	100m	PP001543

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