

# Profinet Type A Multipair Cable **pro-POWER**



**RoHS  
Compliant**

## Application

This multipair Profinet Type A cable with solid copper conductors for the cabling of industrial field bus systems with the globally accepted TCP/IP protocol. Suitable for fixed or flexible applications. Cable properties include a high active and passive interference resistance. They are free from paint wetting disruptive substances (LABS-free).

## Characteristics

Voltage Rating (Uo/U)	: 300V
Temperature Rating	: Fixed: -20°C to +70°C
Minimum Bending Radius	: Fixed: 7.5 × overall diameter Flexed: 15 × overall diameter

## Cable Standards

BS EN/IEC 50288-1, BS EN/IEC 61156-2, EN 50396



## 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

Class 1 solid copper conductor

### Insulation

LSZH (Low Smoke Zero Halogen)

### Bedding

LSZH (Low Smoke Zero Halogen)

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## Screen 1

AL/PET (Aluminium Polyester Tape)

## Screen 2

TCWB (Tinned Copper Wire Braid)

## Sheath

LSZH (Low Smoke Zero Halogen)

## Core Identification

White and Blue

Yellow and Orange

## Sheath Colour

Green

## Dimensions

No. of Pairs	Nominal Conductor Diameter mm <sup>2</sup> (AWG)	Nominal Diameter Insulation mm	Nominal Bedding Diameter mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2	0.34 (22)	1.43	4.2	6.5	74

## Electrical Characteristics

Max. DC Conductor Resistance $\Omega$ /km	Capacitance pF/km		Min. Insulation Resistance $G\Omega \times km$	Impedance $\Omega$	Nominal Propagation Velocity	Delay Skew ns/100m	Dielectric Strength kVac / 1 min	
	Core/Core	Unbalanced					Core/Core	Unbalanced
56.4	52	1600	5	100	67%	50	1.5	1

## Part Number Table

Description	Reel Length	Part Number
Profinet Type A Multipair Cable	100m	PP001545

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