

Product: [70100E](#) 

Profibus PA, 1PR #18 Str TC, PO ins, OS, PVC jkt, 300V



Product Description

Profibus PA, 1 Pair AWG 18 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil(s) or Copper Tape(s) shielding, PVC jacket , 300V

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation and computer cable; For data transmission applications
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
18	7x26	TC - Tinned Copper	1

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	2.55 mm (0.100 in)	Blue & Orange

Outer Shield

Shield Type	Material
Tape	Bi-Laminate (Alum+Poly)

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	7.5 mm (0.30 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Nom. Characteristic Impedance
20.5 Ohm/km (6.25 Ohm/1000ft)	100 Ohm

Delay

Nom. Velocity of Prop.
66%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]
0.01	0.2
0.039	0.3
0.1	0.6
0.5	2.8
1	3.7

Mechanical Characteristics

Temperature

Installation	Storage
-5°C To +70°C	-30°C to +70°C

Bend Radius

Installation Min.
100 mm (3.9 in)

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

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
CEC / C(UL) Compliance:	.
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.221 Revision Date: 11-03-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
70100E.01500	Blue	Reel	500 m	8719605011824
70100E.011000	Blue	Reel	1,000 m	8719605011817
70100E.00500	Orange	Reel	500 m	8719605011800
70100E.02500	Orange	Reel	500 m	8719605011848
70100E.001000	Orange	Reel	1,000 m	8719605011794
70100E.021000	Orange	Reel	1,000 m	8719605011831

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