


Product: [70100E](#) 

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



Product Description

Profibus DP, 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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Physical Characteristics (Overall)

Conductor

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

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene	2.55 mm	0.05 mm

Color Chart

Number	Color
Pair 1	Blue & Orange

Outer Shield Material

Type	Material	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	TC - Tinned Copper	AWG20/7

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	7.5 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Shield DCR
20.5 Ohm/km	26 Ohm/km

Capacitance

Max. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
80 pF/m	155 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance
0.03125	100 Ohm	20 Ohm

High Freq

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

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temp Range:	-5°C To +70°C
Storage Temp Range:	-30°C to +70°C
Operating Temp Range (Fixed Install):	-30°C To +70°C

Mechanical Characteristics

Max. Pull Tension:	50 N
Min Bend Radius During Installation:	100 mm

Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU RoHS Compliance Date (yyyy-mm-dd):	2012-07-24

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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Part Number

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

History

Update and Revision:	Revision Number: 0.185 Revision Date: 06-24-2020
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