



Product: [70102E](#) 

Profibus DP, 1PR #22 Str BC, PO ins, F/B, PVC jkt,



Product Description

Profibus DP, 1 Pair AWG 22 Bare Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid(s) shielding, PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation and computer cable; For data transmission applications such as Profibus DP
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	7x30	BC - Bare Copper	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene (Foam)	2.55 mm	0.1 mm

Color Chart

Number	Color
Pair 1	Red & Green

Outer Shield

Type	Material	Coverage [%]
Tape	Bi-Laminate (Alum+Poly)	65%
Braid	Tinned Copper (TC)	65%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	8 mm

Construction and Dimensions

Cabling

Description	Filler
1 pair and 2 fillers twisted to cable core	Polypropylene (2x)

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
57 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor

28 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance
3 - 20 MHz	150 Ohm	15 Ohm

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
0.2 MHz	0.9 dB/100m
4 MHz	2.2 dB/100m
16 MHz	4.5 dB/100m

Temperature Range

Installation Temperature Range:	-15°C To +70°C
Storage Temperature Range:	-40°C to +70°C
Operating Temp Range (Fixed Install):	-40°C To +70°C

Mechanical Characteristics

Min. Bend Radius During Installation:	80 mm
Min Setting Radius:	40 mm

Standards

CPR Euroclass:	Eca
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Applicable Environmental and Other Programs

Environmental Space:	Indoor
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Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
70102E.00500	Purple	Reel	500 m	8719605012180
70102E.01500	Purple	Reel	500 m	8719605012203
70102E.001000	Purple	Reel	1,000 m	8719605012173
70102E.011000	Purple	Reel	1,000 m	8719605012197

History

Update and Revision:	Revision Number: 0.184 Revision Date: 04-30-2024
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