

**Product:** [70101E](#) 

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



## Product Description

Profibus DP, 1 Pair AWG 22 Bare Copper - Solid, 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; Indoor use
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### Physical Characteristics (Overall)

#### Conductor

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

Conductor Count:	2
Total Number of Pairs:	1

#### Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene (Foam)	2.45 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	7.8 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
52 Ohm/km

#### Capacitance

Nom. Capacitance Conductor to Conductor
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30 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 (Flexible Install):	-15°C To +70°C

#### Mechanical Characteristics

Min. Bend Radius During Installation:	78 mm
Min Setting Radius:	39 mm

#### Standards

CPR Euroclass:	Eca
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#### Applicable Environmental and Other Programs

Environmental Space:	Indoor
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#### Flammability, LSOH, Toxicity Testing

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

#### Variants

Item #	Color	Put-Up Type	Length	EAN
70101E.00500	Purple	Reel	500 m	8719605012005
70101E.01500	Purple	Reel	500 m	8719605012029
70101E.001000	Purple	Reel	1,000 m	8719605011992
70101E.011000	Purple	Reel	1,000 m	8719605012012

#### History

Update and Revision:	Revision Number: 0.181 Revision Date: 02-15-2024
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