

Product: <u>70101E</u> ☑

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:	$In strumentation\ and\ computer\ cable; For\ data\ transmission\ applications\ such\ as\ Profibus;\ Indoor\ use$
Physical Characteristics (Over	rall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	Solid	BC - Bare Copper	1
Condu	ictor Count:		2
Total N	Number of Pa	airs:	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

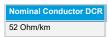
Construction and Dimensions

Cabling

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

Electrical Characteristics

Conductor DCR



Capacitance

Nom. Capacitance Conductor to Conductor

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

CPI	R Euroclass:	Eca

Applicable Environmental and Other Programs

Environmental Space:	Indoor

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IFC 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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