


Product: [70103E](#) 

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 + bedding+ Braid(s) shielding, PVC jacket ,

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation and computer cable for Data Transmission applications such as Profibus; AWM 20276 80C 30V: Internal wiring or external interconnection of electronic equipment
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Physical Characteristics (Overall)

Conductor

AWG	Material	No. of Pairs
22	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
Wire 1	Red
Wire 2	Green

Inner Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	5.5 mm

Table Notes: Bedding

Outer Shield

Type	Layer	Material	Coverage [%]
Tape	1	Bi-Laminate (Alum+Poly)	65%
Braid	2	Tinned Copper (TC)	65%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	8.2 mm

Construction and Dimensions

Cabling

Description
1 pair twisted to cable core wrapped with a polyester foil

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR

52 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor

30 pF/m

Impedance

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

Voltage

Voltage Rating [V]

30 V

Temperature Range

Installation Temperature Range:	-15°C To +80°C
Storage Temperature Range:	-40°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-40°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Min. Bend Radius During Installation:	82 mm
Min Setting Radius:	41 mm

Standards

UL AWM Style Compliance:	AWM 20276
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
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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
70103E.00500	Purple	Reel	500 m	8719605012241
70103E.01500	Purple	Reel	500 m	8719605012258

History

Update and Revision:	Revision Number: 0.158 Revision Date: 04-08-2022
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