

Part Number: 70102E

PROFIBUS DP



Product Description

22 AWG, Stranded (7 x 30) BC Conductors, Flame Retardant Foam Polyethylene Insulation, Overall Beldfoil® + Overall 65% TC Braid Shielding, Purple PVC Jacket

Technical Specifications

Product Overview

Environmental Space:	Indoor
Suitable Applications:	Instrumentation and computer cable; For data transmission applications such as Profibus DP

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	2
Total Number of Pairs:	1
Conductor Size:	22 AWG

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
FPE - Foamed Polyethylene	2.55 mm	0.1 mm

Color Chart

Number	Color
Pair 1	Red & Green

Outer Shield Material

Type	Material	Coverage [%]
Tape	Aluminum/Polyester	
Braid	TC - Tinned Copper	65 %

Outer Jacket Material

Material	Color	Nominal Diameter
PVC - Polyvinyl Chloride	Violet (like RAL 4001)	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 Freq

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 Temp Range:	-15°C To +70°C
Storage Temp 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

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2012-08-16
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Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
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Part Number

Variants

Item #	Color
70102E.00500	Purple
70102E.001000	Purple
70102E.011000	Purple
70102E.01500	Purple

History

Revision Number:	1
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