Product: 70105PU

Profibus DP, 1PR #24 Str BC, PO ins, F/B/F, PUR jkt, IEC 61158-2, Trailing

Product Description

Profibus DP, 1 Pair AWG 24 Bare Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid + Foil (Tri) shielding, PUR jacket , IEC 61158-2, Trailing

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation and computer cable for Data Transmission applications such as Profibus; Suitable for C-track/trailing application

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
24	19x36	BC - Bare Copper	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene (Foam)	2.5 mm	0.1 mm

Color Chart

Number	Color
Wire 1	Red
Wire 2	Green

Outer Shield

Type	Layer	Material	Coverage [%]
Tape	1	Bi-Laminate (Alum+Poly)	70%
Braid	2	Tinned Copper (TC)	70%
Tape	3	Bi-Laminate (Alum+Poly)	

Outer Jacket

Material	Nominal Diameter
PUR - Polyurethane	7.8 mm

Construction and Dimensions

Cabling

Description
1 pair and 2 fillers twisted to cable core wrapped with a non-woven foil

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
87 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor
30 pF/m

Impedance

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

Temperature Range

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

Mechanical Characteristics

Min Bend Radius (W/o Pulling Strength):	78 mm
Min Setting Radius:	39 mm

Standards

UL AWM Style Compliance:	AWM 21292

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL horizontal flame test
IEC Flammability:	IEC 60332-2-2
IEC 60754-1 - Halogen Amount:	zero

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
70105PU.00500	Purple	Reel	500 m	8719605012272
70105PU.01500	Purple	Reel	500 m	8719605012296
70105PU.001000	Purple	Reel	1,000 m	8719605012265
70105PU.011000	Purple	Reel	1,000 m	8719605012289

History

Update and Revision:	Revision Number: 0.147 Revision Date: 02-15-2024

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