



Product: [70006PU](#)

DataTuff® 5E, 1Q #22 Sol BC, PO ins, F/B, PUR jkt, PROFINET Type A

Product Description

DataTuff® 5E, 1 Quad AWG 22 Bare Copper - Solid, Polyethylene insulation, SF/UTP - Overall Braid + Foil shielding, PUR jacket , PROFINET Type A

Technical Specifications

Product Overview

Suitable Applications:	PROFINET Cat5e, harsh environment, IIoT, factory or process automation, IP cameras and devices, data communication, etc.
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs	No. of Elements
22 AWG	Solid	BC - Bare Copper	2	4

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	1.5 mm (0.059 in)	White & Blue & Yellow & Orange
		1 Quad

Cable Core

Description
1 quad with center filler

Inner Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	3.9 mm (0.15 in)

Table Notes:	Bedding
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Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	
Braid	Tinned Copper (TC)	85%

Outer Jacket

Material	Nom. Diameter
PUR - Polyurethane	6.5 mm (0.26 in)

Overall Cable Diameter (Nominal):	6.5 mm (0.26 in)
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Electrical Characteristics

Electricals

Max. Conductor DCR	Nom. Characteristic Impedance
57.1 Ohm/km	100 Ohm

Delay

Max. Delay	Nom. Velocity of Prop.
530 ns/100m	68%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. SRL (Structural Return Loss) [dB]
1	2.1 dB/100m	65.3	64	
4	4.1 dB/100m	56.3	52	23
10	6.5 dB/100m	50.3	44	25
16	8.3 dB/100m	47.2	40	25
31.25	11.7 dB/100m	42.9	34	23.6
62.5	17 dB/100m	38.4	28	21.5
100	22 dB/100m	35.3	24	20.1

Table Notes:	Reference standard: ISO/IEC 11801 ed 2.0, Cat 5e
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Transfer Impedance

Frequency	Max. Transfer Impedance
10 Mhz	Max. 10 mOhm/m

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-40°C to +80°C	-5°C To +50°C	-40°C to +80°C

Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
AWM Compliance:	AWM 20549
Data Category:	Category 5e
ISO/IEC Compliance:	ISO/IEC 11801-1
European Directive Compliance:	EU CE Mark

History

Update and Revision:	Revision Number: 0.253 Revision Date: 01-11-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
70006PU.01305	Green	Reel	305 m	8719605009272
70006PU.01500	Green	Reel	500 m	8719605009289

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