

Product: 70008PU

DataTuff® 5E, 1Q #22 Str TC, PO ins, F/B, PUR HF jkt, PROFINET type C, 5M Trailing

Request Sample

Product Description

DataTuff® 5E, 1 Quad AWG 22 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid(s) shielding, PUR Halogen Free jacket , PROFINET type C, 5M trailing

Technical Specifications

Product Overview

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

Construction Details

Conductor

Size	Stranding	Material	No. of Pairs	No. of Elements
22 AWG	19x34	TC - Tinned Copper	2	4

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	1.63 mm (0.0642 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)	4.2 mm (0.17 in)

Table Notes:	Bedding

Outer Shield

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

Outer Jacket

Separator	Material	Nom. Diameter
non-Woven Tape	PUR - Polyurethane (Halogen Free)	6.5 mm

Table Notes:	Jacket color green (RAL 6018)
Overall Cable Diameter (Nominal):	6.5 mm (0.26 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Nom. Characteristic Impedance
57.1 Ohm/km (17.4 Ohm/1000ft)	100 Ohm

Delay

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

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. SRL (Structural Return Loss) [dB]
1	2.1	65	64	
4	4	56	52	23
10	6.3	50	44	25
16	8	47	40	25
31.25	11.4	43	34	23.6
62.5	16.5	38	28	21.5
100	21.3	35	24	20.1

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

Transfer Impedance

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

Voltage

UL Voltage Rating	Voltage Rating
300 V	300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation	Storage
80°C	-40°C to +80°C	-5°C To +60°C	-40°C To +80°C

Trailing/Flexing Properties

Motion	Number of Cycles	Radius	Speed	Acceleration	Traverse Length	Torsion Angle
Trailing/Bending	5,000,000	60 mm	3 m/s	3		
Torsion/Twisting	1,000,000	60 mm	12		1 m	180 °

Table Notes:	Drag chain

Bend Radius

Stationary Min.	Installation Min.	Flexing Min.
30 mm (1.2 in)	65 mm (2.6 in)	65 mm (2.6 in)

Max. Pull Tension:	160 N (36 lbf)

Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Outdoor - Black only, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	Horizontal flametest
AWM Compliance:	AWM 20549
Data Category:	Category 5e
ISO/IEC Compliance:	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = Pass
European Directive Compliance:	EU CE Mark

History

Update and Revision:	Revision Number: 0.309 Revision Date: 08-13-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
70008PU.01B100	Green	Flat Box	100 m	8719605009463
70008PU.01305	Green	Reel	305 m	8719605009449
70008PU.01500	Green	Reel	500 m	8719605009456
70008PU.011000	Green	Reel	1,000 m	8719605009432

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