



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

	Physical Characteristics (Overall)			
Condu		Material	Construction n x D	No. of Quads
22	19x34	TC - Tinned Copper		1
Condu	uctor Count:			4
Total I	Number of Pa	airs:		2
Insulat	ion			
Material Nominal Diameter Diameter +/- Tolerance		ce		
PE - F	Polyethylene	1.63 mm	0.05 mm	
Bonded-Pair:		No		
Color Chart				
Number Color				
Quad 1 White & Blue & Yellow & Orange				
Inner Shield Material				
Elen				
Data Pair(s)				

Inner Jacket Material

	Material	Nominal D	iameter
Ī	LSZH - Low Smoke Zero Halogen (Flame Retardant)	4.3 mm	
•	Table Notes:		Bedding

Outer Shield Material

Type	Material	Min. Coverage [%]
Tape	Bi-Laminate (Alum+Poly)	
Braid	Tinned Copper (TC)	85%

Outer Jacket Material

Material	Color	Nominal Diameter	Diameter +/- Tolerance	Separator Material
PUR - Polyurethane (Halogen Free)	Green (RAL 6018)	6.5 mm	0.2 mm	non-Woven Tape

Construction and Dimensions

Cabling



Electrical Characteristics

Conductor DCR

Max. Conductor DCR

57.1 Ohm/km

Impedance

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance
1 - 100	100 Ohm	15 Ohm

Delay

	Max. Delay	Nominal Velocity of Propagation (VP) [%]
ľ	530 ns/100m	68%

High Freq

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

Transfer Impedance

Frequency [MHz]	Transfer Impedance	
10 Mhz	Max. 10 mOhm/m	

Voltage

UL Voltage Rating	Voltage Rating [V]
300 V	300 V

Temperature Range

Installation Temp Range:	-5°C To +60°C
UL Temp Rating:	80°C
Storage Temp Range:	-40°C To +80°C
Operating Temp Range:	-40°C to +80°C
Operating Temp Range (Drag Chain Op):	-5°C To +60°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-2-1
Torsion Test: Min Number of Torsions:	1000000
Torsion Test: Description:	+/- 180° ,12x/min over 1mtr
Min No. of Drag Chain Cycles:	5000000
Drag Chain Parameters:	a= 3m/s2 v= 3 m/s and r= 60 mm

Standards

UL AWM Style Compliance:	UL AWM 20549
IEC Compliance:	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011
Data Category:	Category 5e

Applicable Environmental and Other Programs

Environmental	Space:	Indoor
EU RoHS Com	pliance Date (yyyy-mm-dd):	2004-01-01

Flammability, LS0H, Toxicity Testing

UL Flammability:	Horizontal flametest
CSA Flammability:	FT2
IEC 60754-1 (EN50267-1)- Halogen Amount:	Pass

Part Number

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

History

1	Update and Revision:	Revision Number: 0.202 Revision Date: 12-18-2020

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