



Product: <u>70006PU</u> ☑

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, Polyolefin (PO, PE, PP) insulation, SF/UTP - Overall Braid + Foil shielding, PUR jacket, PROFINET Type A

Technical Specifications

Physical Characteristics (Overall)

Condu	ctor					
AWG	Stranding	Mat	erial	Nominal Diamet	er No. of	Conductors
22	Solid	BC - Bar	e Copper	0.65 mm	4	
Condu	uctor Count:				4	
Total I	Number of Pa	airs:			2	
Insulat	ion					
Mater	rial Nomin	al Diamet	er Diame	ter +/- Tolerance		
Polyol	efin 1.5 mm	l	0.05 m	m		
Bonde	ed-Pair:				No	
Color (Chart					
Numb	er	Colo	r			
Quad	1 White &	Blue & Ye	ellow & Ora	nge		
	acket Mater	-1				
inner J	Material		ominal Dia	motor		
PVC -	Polyvinyl Ch			meter		
	Notes:				Ber	ding
Table	Notes.				Dec	Jing
	Shield Mater					
Туре	Mater		Thickness	s of Foil Min. Co	verage [%	
Tape Braid	Alum / Poly Tinned Cop		50 µm	85%		
Draid	raniou cop	po. (10)				
Outer .	Jacket Mater	-				
	Material			Diameter +/- 1	Folerance	
PUR -	Polyurethan	e 6.5 mm	n	0.2 mm		
Elect	rical Cha	racteris	stics			
	ctor DCR					
	Conductor D	CR				
57.1 C	Dhm/km					
Impeda	ance					
		Nominal	Character	ristic Impedance	Nominal	Zhanastania

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

 Max. Delay
 Nominal Velocity of Propagation (VP) [%]

 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	65.3 dB	64 dB		
4 MHz	4.1 dB/100m	56.3 dB	52 dB	23 dB	
10 MHz	6.5 dB/100m	50.3 dB	44 dB	25 dB	
16 MHz	8.3 dB/100m	47.2 dB	40 dB	25 dB	
31.25 MHz	11.7 dB/100m 42.9		34 dB	23.6 dB	
62.5 MHz	.5 MHz 17 dB/100m 34		28 dB	21.5 dB	
100 MHz	22 dB/100m	35.3 dB	24 dB	20.1 dB	
Table Notes:		Reference	Reference standard: ISO/IEC 11801 ed 2.0, Cat 5e		
General Electrical	Parameters Notes:	Reference	Reference standard: ISO/IEC 11801 ed 2.0, Cat 5e		

Transfer Impedance

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

Voltage

Voltage Rating [V] 300 V

Temperature Range

Installation Temp Range:	-5°C To +50°C		
Storage Temp Range:	-40°C To +80°C		
Operating Temp Range:	-40°C To +80°C		

Mechanical Characteristics

Oil Resistance:	IEC 60811-2-1

Standards

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 Compliance Date (yyyy-mm-dd):	2015-11-11

Suitability

Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

	IEC Flammability:	IEC 60332-1-2
- 1	- ,	

Part Number

Variants

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

History

Update and Revision:

Revision Number: 0.196 Revision Date: 06-24-2020

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