

Part Number: 74004PU

DataTuff® Industrial Ethernet Cat 7 Permanent Installation Cable



Product Description

DataTuff Industrial ETHERNET, Cat 7 4 Pair, 10 Gb/s, AWG 23(1), Solid, Foil + 80% Braid, No Halogen PUR Jacket, UL AWM 20549

Technical Specifications

Prod	luct C)verv i	iew

Environmental Space:	Indoor

Physical Characteristics (Overall)

onducto	onductor						
AWG S	tranding	Mate	rial	No. of Pa	irs		
23 S	olid	BC - Bare	e Copper	4			
Conducto	or Count:			٤	3		
Total Nur	mber of Pa	airs:		4	ļ		
Conducto	or Size:			2	23 AWG		
nsulation							1
	Material	vethylene		Diameter	0.05 mn	er +/- Tolerance	
		yethylene	1.45 mm			1	
Bonded-I	Pair:			1	No		
olor Cha	art						
Number	Co	lor					
Pair 1	White &	Blue					
Pair 2	White &	Orange					
Pair 3	White &	Green					
Pair 4	White &	Brown					
Inner Shield Material							
Type Material							
Tape Aluminum / Polyester					Aluminum	outoido	
InnerShield, Table Note:					auninun	GUISIUC	
uter Shi	eld Mater	ial					
Туре	Mater	ial	Min. Cove	erage [%]			
Braid To	C - Tinnec	Copper	65 %				
utor les	ket Mate	rial					
Julei Jac		terial		Nomine	Diamete	er Diameter +/-	Foloronee
		and flame	retardant		Diamete	0.3 mm	rolerance
	oyennee	anu name	- claiùdill	, , , , , , , , , , , , , , , , , , , ,		0.0 mm	
Constr	uction	and Din	nensior	าร			
Min Elon	gation at I	Min Elongation at Breakof Conductors:					
Min Elongation at Breakof Insulation:			nductors:		10 %		

Cabling

Description

4 pairs twisted to cable core

Min Elongation at Breakof Jacket:	100 %
Min Tensile Strength of Jacket:	15 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. DCR Unbalanced Within Pair [%]		
75 Ohm/km	2 Ohm		

Capacitance

Max. Capacitance Unbalance	Max. Mutual Capacitance
1.6 pF/m	56 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Nominal Input Impedance
4 - 100	100 Ohm	5 Ohm	100 +/- 15 Ohm
100 - 250	100 Ohm	22 Ohm	
250 - 600	100 Ohm	25 Ohm	

Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]	
40 ns/100m	60 %	
Coupling Attenuation Class:		Type Ib
Segregation class according EN50174-2:		с

Transfer Impedance

Frequency [MHz]	Transfer Impedance
1 Mhz	Max. 5 mOhm/m
10 Mhz	Max. 5 mOhm/m
30 Mhz	Max. 30 mOhm/m
100 Mhz	100 mOhm/m

Current

Element	Max. Recommended Current [A]
Conductor	1.4 A

Voltage

Voltage Rating [V] 30 V AC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Operating Temp Range:	-40°C To +70°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-2-1
Max Recommended Pulling Tension:	80 N
Min Bend Radius (W/o Pulling Strength):	80 mm
Min Setting Radius:	40 mm

Standards

	ISO/IEC Compliance:	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011 and ISO/IEC 24702		
	CENELEC Compliance:	EN 50173-1 Ed. 3:2011		
	Data Category:	Category 7		
	ANSI Compliance:	ANSI/TIA/EIA 568-C.2 (2009)		
	IEEE Specification:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4		

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2016-01-22

Flammability, LS0H, Toxicity Testing

CSA Flammability:		FT2
Part Number		
/ariants		
ltem #	Color	
74004PU.01305	Black	
74004PU.01500	Black	
74004PU.01B100	Black	
Patent:		https://www.belden.com/resources/patents
History		
Revision Number:		1

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