



Product: [74033E](#)

DataTuff Ind SPE 40mGb 22AWG 7 STR SF/UTP PVC

Product Description

DataTuff Ind SPE 40mGb 22AWG 7 STR SF/UTP PVC

Technical Specifications

Product Overview

Suitable Applications:	Manufacturing cell, 1 single pair Ethernet up to 600 MHz accord. IEEE 802.3bp (1000BASE-T1)
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
22 AWG	7x0.25 mm	TC - Tinned Copper	1

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	2.2 mm (0.087 in)	White & Blue

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	80%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	6.15 mm (0.242 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance	Nom. Characteristic Impedance
59.4 Ohm/km at 20°C	160 pF/100m	100 Ohm

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELTCTL [dB]	Max. Surface Transfer Impedance	Min. Coupling Attenuation [dB]	Nom. Characteristic Impedance [Ohm]
1	3.1	20	40	40	15		
4	5.6	23	40	28	11.8		
10	8.7	25	35	20	10		
20	12.3	25	30.5	14	20		
30	15.1	23.5	27.8	10.5	30	85	
100	27.8	19	20	5		85	
600	70.7	15.6	8.3	5		69.4	
1000						65	
							100

Voltage

Voltage Rating
300 V

### Mechanical Characteristics

#### Temperature

Operating
-20°C To +80°C

### Standards and Compliance

Flammability / Reaction to Fire:	FT2, IEC 60332-1-2
AWM Compliance:	AWM 2095, AWM I A/B
Data Category:	SPE 1000 Mbps
ISO/IEC Compliance:	IEC 61156-12 NP, UL 758

### History

Update and Revision:	Revision Number: 0.84 Revision Date: 04-29-2024
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### Part Numbers

#### Variants

Item #	Color	Putup Type	Length	EAN
74033E 0101000	Black	Reel	1,000 ft	
74033E-C500	Blue, Light	Reel	500 m	8719605192295
74033E 0061000	Blue, Light	Reel	1,000 ft	

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