



**Product:** [74042E](#)

DataTuff Ind SPE cable 10Mbps 1km, SF/UTP, AWG18 Solid, PVC

### Product Description

DataTuff Ind SPE cable 10Mbps 1km, SF/UTP, AWG18 Solid, PVC

### Technical Specifications

#### Product Overview

Suitable Applications:	1 single pair Ethernet up to 20 MHz
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#### Construction Details

##### Conductor

Element	Size	Stranding	Material	No. of Pairs
Pair(s)	18 AWG	Solid	BC - Bare Copper	1

##### Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene (Foam)	2.49 mm (0.0980 in)	White & Blue

##### Outer Shield

Shield Type	Material	Coverage
Tape	Polyester	100%
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	90%

##### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	7.7 mm (0.30 in)

#### Electrical Characteristics

##### Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
22.3 Ohm/km (6.80 Ohm/1000ft)	160 pF/100m

##### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB]	Min. RL (Return Loss) [dB]	Min. Coupling Attenuation [dB]
0.1	1.0	15	60
1	1.4	20	60
4	2.6	23	60
10	4.1	25	60
20	5.7	25	60

##### Voltage

UL Voltage Rating
300 V

#### Mechanical Characteristics

## Temperature

Operating
-30°C to +75°C

## Bend Radius

Stationary Min.
43.4 mm (1.71 in)

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL 1685 Vertical Tray, UL 1685 Vertical Tray
NEC / UL Compliance:	Article 725, Article 800, PLTC, CM
Data Category:	SPE 10 Mbps
TIA/EIA Compliance:	TIA 568.5
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2022-04-27
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.19 Revision Date: 07-05-2024
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