



Product: [SPE102](#)

Datatuff Ind SPE 10Mbps 22AWG SF/UTP PVC

Product Description

Datatuff Ind SPE 10Mbps 22AWG PE SF/UTP PVC

Technical Specifications

Product Overview

Suitable Applications:	data communications, cameras, PLCs, switches, outdoor, indoor etc.
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
22 AWG	Stranded	TC - Tinned Copper	1

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.067 in (1.7 mm)	White & Blue

Outer Shield

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

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.245 in (6.22 mm)

Overall Cable Diameter (Nominal):	.245 in (6.22 mm)
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Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance
59 Ohm/km	56 pF/m (17 pF/ft)	330 pF/100m

Delay

Frequency	Max. Delay	Nom. Velocity of Prop.
100 MHz	450 ns/100m	76%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. RL (Return Loss) [dB]	Min. PSANEXT [dB]	Min. Coupling Attenuation [dB]	Nom. Characteristic Impedance [Ohm]
0.1	1.4 dB/100m	11.5	67	50	100
0.5	1.6 dB/100m	15	64.7	50	100
0.772	1.9 dB/100m	15	61.5	50	100
1	2.1 dB/100m	15	61.4	50	100
2	2.8 dB/100m	15	54.5	50	100
4	3.8 dB/100m	15	49.4	50	100
8	5.3 dB/100m	15	44.3	50	100

10	4.1 dB/100m	15	42.6	50	100
16	7.5 dB/100m	15	39.1	50	100
20	8.4 dB/100m	15	37.5	50	100

Voltage

UL Voltage Rating
300 V (UL 13 PLTC)

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-30°C To +75°C

Bend Radius

Installation Min.
2 in (51 mm)

Max. Pull Tension:	10 lbs (4.5 kg)
Bulk Cable Weight:	38 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL 1685 UL Loading
NEC / UL Compliance:	CM, PLTC
IEEE Compliance:	IEEE 802.3cg
TIA/EIA Compliance:	ANSI/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)

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system.
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History

Update and Revision:	Revision Number: 0.42 Revision Date: 04-29-2024
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Part Numbers

Variants

Item #
SPE102 0061000
SPE102 0101000

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