



Product: [SPE406](#) 

DataTuff Ind SPE 40mGb 22AWG SF/UTP LSZH

Product Description

DataTuff Ind SPE 40mGb 22AWG SO SF/UTP LSZH

Technical Specifications

Construction Details

Conductor

AWG	Stranding	Material	Number of Pairs
22	Stranded	TC - Tinned Copper	1

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.069	White & Blue

Bonded-Pair: No

Outer Shield Material

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

Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.201 in

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalanced Between Pairs [%]	Max. Capacitance Unbalance	Min. Insulation Resistance	Dielectric Withstand
59.4 Ohm/km	2%	1,600 pF/km	5,000 MOhm*km	2000 V AC For 1 Min.

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew
100 MHz	538 ns/100m	25 ns/100m

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. TCL [dB]	Min. ELTCTL [dB]	Max. Surface Transfer Impedance	Min. Coupling Attenuation	Nom. Characteristic Impedance
1 MHz	3.1 dB	40 dB	40 dB	15 mOhm/m		
4 MHz	5.6 dB	40 dB	28 dB	11.75 mOhm/m		
8 MHz	7.8 dB	36.5 dB	21.9 dB	10.4 mOhm/m		
10 MHz	8.7 dB	35.0 dB	20.0 dB	10 mOhm/m		
16 MHz	11 dB	31.9 dB	15.9 dB	20 mOhm/m		
20 MHz	12.3 dB	30.5 dB	14 dB	20 mOhm/m		
25 MHz	13.8 dB	29 dB	12 dB	25 mOhm/m		
30 MHz	15.1 dB	27.8 dB	10.5 dB	30 mOhm/m	40 dB	
60 MHz	21.4 dB	23.3 dB	5 dB		40 dB	

100 MHz	27.8 dB	20 dB	5 dB		40 dB	100 Ohm
200 MHz	39.7 dB	15.5 dB	5 dB		34 dB	
250 MHz	44.6 dB	14 dB	5 dB		32 dB	
300 MHz	49 dB	12.8 dB	5 dB		30.5 dB	
350 MHz	53.2 dB	11.8 dB	5 dB		29.1 dB	
400 MHz	57 dB	11 dB	5 dB		28 dB	
450 MHz	60.7 dB	10.2 dB	5 dB		26.9 dB	
500 MHz	64.1 dB	9.5 dB	5 dB		26 dB	
550 MHz	67.5 dB	8.9 dB	5 dB		25.2 dB	
600 MHz	70.7 dB	8.3 dB	5 dB		24.4 dB	

Voltage

UL Voltage Rating	Non-UL Voltage Rating
300 V (UL AWM 2095)	300 V (IEC 61156-12)

Mechanical Characteristics

Temperature

UL Rating	Operating
80°C	-30°C To +80°C

Bend Radius

Installation Min.
2 in

Bulk Cable Weight:	10.6 lbs/1000ft
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Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Fire Resistance:	FT2, FT2, 60332-1
AWM Compliance:	AWM 2095, AWM I A/B
IEEE Compliance:	IEEE 802.3bp
IEC Compliance:	IEC 61156-11
ISO/IEC Compliance:	IEC 61156-11
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: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Part Number

Variants

Item #	Color	Putup Type	Length
SPE406 0101000	Black	Reel	1,000 ft
SPE406 0105000	Black	Reel	5,000 ft
SPE406 0061000	Blue, Light	Reel	1,000 ft
SPE406 0065000	Blue, Light	Reel	5,000 ft

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: 0.15 Revision Date: 03-16-2021
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