



Product: [SPE403](#) 

DataTuff Ind SPE 40mGb 24AWG 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
24	Stranded	TC - Tinned Copper	1

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.075	Natural & Natural/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
PUR - Polyurethane	0.217 in

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalanced Between Pairs [%]	Max. Capacitance Unbalance	Min. Insulation Resistance	Dielectric Withstand
94.2 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 20549)	300 V (IEC 61156-12)

Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.
2.2 in

Bulk Cable Weight:	11.5 lbs/1000ft
--------------------	-----------------

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Fire Resistance:	FT2, FT2, 60332-1
AWM Compliance:	AWM 20549, 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
SPE403 0101000	Black	Reel	1,000 ft
SPE403 0061000	Blue, Light	Reel	1,000 ft
SPE403 1NH1000	Teal	Reel	1,000 ft

Product Notes

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

History

Update and Revision:	Revision Number: 0.15 Revision Date: 03-16-2021
----------------------	---

© 2021 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.