



Product: [74031E](#)

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

Product Description

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

Technical Specifications

Product Overview

Suitable Applications:	1 single pair Ethernet up to 600 MHz
------------------------	--------------------------------------

Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
22 AWG	Solid	BC - Bare Copper	1

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	1.75 mm (0.0689 in)	White & Blue

Outer Shield

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

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	5.10 mm (0.201 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance	Nom. Characteristic Impedance
54.3 Ohm/km at 20°C	120 pF/100m	100 Ohm

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELTCTL [dB]	Min. Coupling Attenuation [dB]	Nom. Characteristic Impedance [Ohm]
1	2.1	20	40	40		
4	3.7	23	40	28		
10	5.8	25	35	20		
20	8.2	25	30.5	14		
30	10.1	23.76	27.8	10.5	85	
100	18.5	20.1	20	5	85	
600	47.1	17.3	8.3	5	69.4	
					65	
						100

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating
-30°C To +80°C

Standards and Compliance

Flammability / Reaction to Fire:	FT2
AWM Compliance:	AWM 2095
Data Category:	SPE 1000 Mbps
ISO/IEC Compliance:	IEC 61156-11, UL 758

History

Update and Revision:	Revision Number: 0.40 Revision Date: 07-05-2024
----------------------	---

© 2024 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.