



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.
------------------------	--

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)
-----------------------------------	-------------------

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance
59 Ohm/km (18 Ohm/1000ft)	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.
--------	--

History

Update and Revision:	Revision Number: 0.44 Revision Date: 09-07-2025
----------------------	---

Part Numbers

Variants

Item #
SPE102 0061000
SPE102 0101000

© 2026 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.