



Product: [74010EPE](#)

DataTuff® 6A, 4PR #22 Sol BC, PO ins, S/FTP, PO jkt, PROFINET Type A, Outdoor

Product Description

DataTuff® 6A, 4 Pair AWG 22 Bare Copper - Solid, Polyethylene insulation, S/FTP - Overall Braid / Individual Foil shielding, Polyethylene jacket , PROFINET Type A, Outdoor

Technical Specifications

Product Overview

Suitable Applications:	PROFINET Cat6A, harsh environment, IIoT, factory or process automation, IP cameras and devices, data communication, etc.
------------------------	--

Construction Details

Conductor

Size	Stranding	Material	No. of Pairs	No. of Elements
22 AWG	Solid	BC - Bare Copper	4	8

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	1.60 mm (0.0630 in)	White & Blue, White & Orange, White & Green, White & Brown

Inner Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

Outer Shield

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	80%

Outer Jacket

Material	Nom. Diameter
PE - Polyethylene	8.7 mm (0.34 in)

Overall Cable Diameter (Nominal):	8.7 mm (0.34 in)
-----------------------------------	------------------

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
59.1 Ohm/km	56 pF/m (17 pF/ft)	160 pF/100m	100 Ohm

Delay

Max. Delay Skew	Nom. Velocity of Prop.
25 ns/100m	78%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. ELTCTL [dB]
1	2 dB/100m	78	76	73	78	20	35
4	3.7 dB/100m	78	74.3	71.3	78	23	23

10	5.9 dB/100m	78	72.1	69.1	75.3	25	15
16	7.4 dB/100m	78	70.6	67.6	71.2	25	10.9
31.2	10.4 dB/100m	78	67.6	64.6	65.4	23.6	5.1
62.5	14.9 dB/100m	75.5	60.6	57.6	59.4	21.5	
100	19 dB/100m	72.4	53.4	50.4	55.3	20.1	
125	21.4 dB/100m	70.9	49.6	46.6	53.4	19.4	
200	27.5 dB/100m	67.9	40.4	37.4	49.3	18	
250	31 dB/100m	66.4	35.5	32.5	47.3	17.3	
300	34.2 dB/100m	65.2	31.1	28.1	45.8	17.3	
500	50.1 dB/100m	60.7	10.6	7.6	39.7	17.3	

Table Notes: Limits below 4MHz are for information only

Screening Class: Type I

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-40°C to +80°C	0°C To +60°	-40°C to +80°C

Bend Radius

Stationary Min.	Installation Min.
45 mm (1.8 in)	90 mm

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor
Data Category:	Category 6A
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	Segregation class according EN50174-2 = d
European Directive Compliance:	EU CE Mark

History

Update and Revision: Revision Number: 0.97 Revision Date: 04-29-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
74010EPE.00305	Black	Reel	305 m	8719605177407

© 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.