



**Product:** [70007E](#)

DataTuff® 5E, 1Q #22 Str TC, PO ins, F/B, PVC jkt, PROFINET Type B

### Product Description

DataTuff® 5E, 1 Quad AWG 22 Tinned Copper - Stranded, Polyethylene insulation, SF/UTP - Overall Braid + Foil shielding, PVC jacket , PROFINET Type B

### Technical Specifications

#### Product Overview

Suitable Applications:	PROFINET Cat5e, 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	7x0.25 mm	TC - Tinned Copper	2	4

##### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	1.55 mm (0.0610 in)	White & Blue & Yellow & Orange
		1 Quad

##### Cable Core

Description
1 quad with center filler

##### Inner Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	4.1 mm (0.16 in)

Table Notes:	Bedding
--------------	---------

##### Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	
Braid	Tinned Copper (TC)	85%

##### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	6.5 mm (0.26 in)

Overall Cable Diameter (Nominal):	6.5 mm (0.26 in)
-----------------------------------	------------------

#### Electrical Characteristics

##### Electricals

Max. Conductor DCR	Nom. Characteristic Impedance
57.1 Ohm/km	100 Ohm

##### Delay

Max. Delay	Nom. Velocity of Prop.
530 ns/100m	68%

## High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. SRL (Structural Return Loss) [dB]
1	2.1 dB/100m	65.3	64	
4	4.1 dB/100m	56.3	52	23
10	6.5 dB/100m	50.3	44	25
16	8.3 dB/100m	47.2	40	25
31.25	11.7 dB/100m	42.9	34	23.6
62.5	17 dB/100m	38.4	28	21.5
100	22 dB/100m	35.3	24	20.1

Table Notes: Reference standard: ISO/IEC 11801 ed 2.0, Cat 5e

## Transfer Impedance

Frequency	Max. Transfer Impedance
10 Mhz	Max. 10 mOhm/m

## Voltage

Voltage Rating
300 V

## Mechanical Characteristics

### Temperature

Operating	Installation	Storage
-40°C to +80°C	-5°C To +60°C	-40°C to +80°C

## Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca, Sunlight Resistance - Black only, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
AWM Compliance:	AWM 2464
Data Category:	Category 5e
ISO/IEC Compliance:	ISO/IEC 11801-1
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

## History

Update and Revision: Revision Number: 0.264 Revision Date: 01-10-2024

## Part Numbers

### Variants

Item #	Color	Putup Type	Length	EAN
70007E.01B100	Green	Flat Box	100 m	8719605009333
70007E.01305	Green	Reel	305 m	8719605009319
70007E.01500	Green	Reel	500 m	8719605009326
70007E.011000	Green	Reel	1,000 m	8719605009296
70007E.011525	Green	Reel	1,525 m	8719605009302

© 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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Belden](#) manufacturer:*

Other Similar products are found below :

[1030A 0061000](#) [1030A 0101000](#) [1032A 0061000](#) [1032A 0101000](#) [1032A-LT-BLU-1000](#) [1033A 0101000](#) [1033A-BLK-1000](#) [1035A 0101000](#)  
[1036A 0101000](#) [1036A-BLK-1000](#) [10GB24.06305](#) [10GB24.07305](#) [10GB24.08305](#) [10GB-B100](#) [10GC-B100](#) [10GC-BC50](#) [10GD-B100](#)  
[10GX32-006-1000](#) [10GX32-LT-BLU-1000](#) [10GX53F-004-1000](#) [10GX53F-YEL-1000](#) [10GXE00.06100](#) [10GXE00.08100](#) [10GXS12 0061000](#)  
[10GXS32 0091000](#) [1121A 010500](#) [1152A-A8R-500](#) [11700A 0061000](#) [11700A 0101000](#) [11700A-BLK-1000](#) [11700A-LT-BLU-1000](#) [1172A](#)  
[B59500](#) [1186A-010-1000](#) [1186A-BLK-1000](#) [1189A 0101000](#) [1189A 010U1000](#) [1189A-290-1000](#) [1189A-BLK-1000](#) [1189A-LT-BGE-1000](#)  
[1192A B59100](#) [1211A 010500](#) [1211A-BLK-500](#) [1212 006U1000](#) [1212A 0101000](#) [1212A-BLK-1000](#) [1212F-002-A1000](#) [1212F-RED-A1000](#)  
[1226B-BLK-500](#) [1227A1 008U1000](#) [1227A1-GRY-U1000](#)