



Product: [BE43885](#)

DataTuff® 5E, 1Q #22 Str TC, PO ins, LSNH Jkt, PROFINET ECE R118, AWM 21286

Product Description

DataTuff® 5E, 1 Quad AWG 22 Tinned Copper - Stranded, Polyethylene insulation, SF/UTP - Overall Braid+ Foil shielding, LSZH / FRNC jacket , PROFINET ECE R118, AWM 21286

Technical Specifications

Product Overview

Suitable Applications:	For use in buses or other vehicles, cable meets the requirements of the standard ECE R118.03
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/patents .

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

Material
Bi-Laminate (Alum+Poly)
Tinned Copper (TC)

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	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	43	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
10 MHz

Mechanical Characteristics

Temperature

Operating	Installation
-25°C to +70°C	-5°C To +50°C

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2, UN ECE R118.03
CPR Compliance:	CPR Euroclass: Eca
Data Category:	Category 5e
ISO/IEC Compliance:	ISO/IEC 11801-1
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark

History

Update and Revision: Revision Number: 0.133 Revision Date: 03-17-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
BE43885.00500	Green	Reel	500 m	8719605190567

© 2023 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.