



**Product:** [74011E](#)

DataTuff® 6A, 4PR #23 Str BC, PO ins, S/FTP, PVC jkt, PROFINET Type B, AWM 21292

Product Description

DataTuff® 6A, 4 Pair AWG 23 Bare Copper - Stranded, Polyethylene insulation, S/FTP - Overall Braid / Individual Foil shielding, PVC jacket , PROFINET Type B, AWM 21292

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

Element	Size	Stranding	Material	No. of Pairs	No. of Elements
Individual Shielded Pair	23 AWG	Stranded	BC - Bare Copper	4	8

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Individual Shielded Pair	PE - Polyethylene (Foam)	1.58 mm (0.0622 in)	White & Blue, White & Orange, White & Green, White & Brown

Cable Core

Description
4 pairs twisted to cable core

Inner Shield

Element	Shield Type	Material	Coverage
Individual Shielded Pair	Tape	Bi-Laminate (Alum+Poly)	100%

Table Notes:	Aluminum outside
--------------	------------------

Outer Shield

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	85%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	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
71.9 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) [dB/100m]	Min. NEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. ELTCTL [dB]
1	2.1	75.3	73.2	70.2	68	20	35
4	3.8	66.3	62.5	59.5	56	23	23
10	5.9	60.3	54.4	51.4	48	25	15
16	7.5	57.2	49.8	46.8	43.9	25	10.9
31.2	10.5	52.9	42.4	39.4	38.1	23.6	5.1
62.5	15.0	48.4	33.4	30.4	32.1	21.5	
100	19.1	45.3	26.6	23.2	28.0	20.1	
125	21.5	43.8	22.3	19.3	26.1	19.4	
200	27.6	40.8	13.2	10.2	22.0	18	
250	31.1	39.3	8.3	5.3	20.0	17.3	
300	34.3	38.1	3.9	0.9	18.5	17.3	
500	45.3	34.8			14.0	17.3	

Table Notes:	Limits below 4MHz are for information only
Transfer Impedance Class:	Grade 1
Screening Class:	Type I
Table Notes:	Coupling Attenuation

Voltage

Voltage Rating
30 V AC

Mechanical Characteristics

Temperature

Operating	Storage
-40°C to +80°C	-40°C to +80°C

Bend Radius

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

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca, Indoor, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
Data Category:	Category 6A
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = d
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.135 Revision Date: 12-20-2022
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
74011E.00B50	Green	Reel	50 m	8719605179814
74011E.00100	Green	Reel	100 m	8719605130044
74011E.00500	Green	Reel	500 m	8719605128607

© 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.