



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

DataTuff® 6A, 4PR #23 Str BC, PO ins, S/FTP, PUR HF 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, PUR Halogen Free 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
PUR - Polyurethane	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]	Min. NEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. ELTCTL [dB]
1	75.3	73.2	70.2	68	20	35
4	66.3	62.5	59.5	56	23	23
10	60.3	54.4	51.4	48	25	15
16	57.2	49.8	46.8	43.9	25	10.9
31.2	52.9	42.4	39.4	38.1	23.6	5.1
62.5	48.4	33.4	30.4	32.1	21.5	
100	45.3	26.6	23.2	28.0	20.1	
125	43.8	22.3	19.3	26.1	19.4	
200	40.8	13.2	10.2	22.0	18	
250	39.3	8.3	5.3	20.0	17.3	
300	38.1	3.9	0.9	18.5	17.3	
600	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 Fca, Indoor, Sunlight Resistance - Black only, Oil Resistance
Flammability / Reaction to Fire:	Horizontal, IEC 60332-1-2, UL Horizontal flame
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
Data Category:	Category 6A
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = d
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = Zero
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

## History

Update and Revision:	Revision Number: 0.198 Revision Date: 12-20-2022
----------------------	--

## Part Numbers

### Variants

Item #	Color	Putup Type	Length	EAN
74011PU.00100	Green	Reel	100 m	8719605130235
74011PU.00500	Green	Reel	500 m	8719605128621

© 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.