



**Product:** [74010PU](#)

DataTuff® 6A, 4 PR #22 Sol BC, PO ins, S/FTP, PUR HF jkt, PROFINET Type A, AWM 21292

**Product Description**

DataTuff® 6A, 4 Pair AWG 22 Bare Copper - Solid, Polyethylene insulation, S/FTP - Overall Braid / Individual Foil shielding, PUR Halogen Free jacket , PROFINET Type A, 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	22 AWG	Solid	BC - Bare Copper	4	8

**Insulation**

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

**Cable Core**

Description
4 shielded pairs twisted together

**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)	80%

**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
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
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, Oil Resistance
Flammability / Reaction to Fire:	Horizontal, UL Horizontal flame
CPR Compliance:	CPR Euroclass: Fca
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: 0.140 Revision Date: 04-29-2024
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
74010PU.00100	Green	Reel	100 m	8719605129994
74010PU.00500	Green	Reel	500 m	8719605127600

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.