

Product: 74010E

DataTuff® 6A, 4PR #22 Sol BC, PO ins, S/FTP, PVC jkt, PROFINET Type A, AWM 20726

Product Description

DataTuff® 6A, 4 Pair AWG 22 Bare Copper - Solid, Polyethylene insulation, S/FTP - Overall Braid / Individual Foil shielding, PVC jacket , PROFINET Type A, AWM 20726

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 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)	80%

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
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

UL Voltage Rating	Voltage Rating
30 V RMS	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, Outdoor - Black only, Sunlight Resistance - Black only, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
AWM Compliance:	AWM 20276
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: 0.243 Revision Date: 05-22-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
74010E.00100	Green	Reel	100 m	8719605129741
74010E.00500	Green	Reel	500 m	8719605127587

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