



Product: [72001ELW](#)

DataTuff® 5E, 2PR #24 Sol BC, PO ins, SF/UTP, LSNH Jkt, Cca

Product Description

DataTuff® 5E, 2 Pair AWG 24 Bare Copper - Solid, Polyethylene insulation, SF/UTP - Overall Braid + Foil shielding, LSZH / FRNC jacket, CPR Cca

Technical Specifications

Product Overview

Suitable Applications:	Cat7, harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs	No. of Elements
24 AWG	Solid	BC - Bare Copper	2	4

Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene	1.1 mm (0.043 in)

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	
Braid	Tinned Copper (TC)	80%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.4 mm (0.25 in)

Overall Cable Diameter (Nominal): 6.4 mm (0.25 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
93.8 Ohm/km (28.6 Ohm/1000ft)	56 pF/m (17 pF/ft)	160 pF/100m	100 Ohm

Delay

Nom. Velocity of Prop.
60%

High Frequency

Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. RL (Return Loss) [dB]
	67		19.4
3.2	65.3	63.8	20
6	56.3	51.8	23
9.5	50.3	43.8	25
12.1	47.2	39.7	25
13.6	45.8	37.8	25
15.3	44.3	35.8	24.3

17.1	42.9	33.9	23.6
24.8	38.3	27.9	21.5
32	35.3	23.8	20.1

Voltage

UL Voltage Rating	Voltage Rating
300 V	72 V DC

Mechanical Characteristics

Temperature

Installation	Storage
-5°C To +50°C	-40°C To +80°C

Bend Radius

Stationary Min.	Installation Min.
32 mm (1.3 in)	64 mm (2.5 in)

Max. Pull Tension:	80 N (18 lbf)
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Standards and Compliance

Environmental Suitability:	Indoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1
European Directive Compliance:	EU CE Mark

History

Update and Revision:	Revision Number: 0.6 Revision Date: 04-29-2024
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