



Product: [11700A2](#) 

DataTuff® 5e, 4 Bonded-Pr #24 Sol BC, PO Ins, PVC Jkt, PVC Jkt, SUN RES OIL RES II CMR

 [Request Sample](#)

Product Description

Industrial Ethernet Cat 5e, 4 Bonded-Pair 24AWG (Solid) Bare Copper, PO Insulation, PVC Inner Jacket, PVC Outer Jacket, SUN RES OIL RES II CMR

Technical Specifications

Product Overview

Suitable Applications:	heavy oil environment (oil res I & II), outdoor, exposure to abrasion, harsh environment, IIoT, factory or process automation, IP cameras and devices, data communication, etc.
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Construction Details

Conductor

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

Insulation

Material	Nom. Insulation Diameter	Color Code
PO - Polyolefin	0.035 in (0.89 mm)	White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Bonded-Pair:	Yes
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Inner Jacket

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.2 in (5.1 mm)	Yes

Outer Shield

Material
No Shield

Outer Jacket

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.285 in	Yes

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
9 Ohm/1000ft (30 Ohm/km)	66 pF/ft

Delay

Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
510 ns/100m	25 ns/100m	70%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1	2	65.3	65.3	63.3	63.3	63.8	60.8	20	100 ± 12 Ohm	105 ± 10 Ohm
4	4	56.3	56.3	52.3	52.3	51.7	48.7	23	100 ± 12 Ohm	100 ± 10
8	5.7	51.8	51.8	46.1	46.1	45.7	42.7	24.5	100 ± 12 Ohm	100 ± 10

10	6.4	50.3	50.3	43.9	43.9	43.8	40.8	25	100 ± 12 Ohm	100 ± 10
16	8.1	47.3	47.3	39.1	39.1	39.7	36.7	25	100 ± 12 Ohm	100 ± 10
20	9.2	45.8	45.8	35.2	35.2	37.7	34.7	25	100 ± 12 Ohm	100 ± 10
25	10.3	44.3	44.3	34.1	34.1	35.8	32.8	24.3	100 ± 15 Ohm	100 ± 10
31.25	11.6	42.9	42.9	31.3	31.3	33.9	30.9	23.6	100 ± 15 Ohm	100 ± 10
62.5	16.8	38.4	38.4	21.6	21.6	27.8	24.8	21.5	100 ± 15 Ohm	100 ± 10
100	21.7	35.3	35.3	17.1	17.1	23.8	20.8	20.1	100 ± 15 Ohm	
155	27.7	32.5	32.5	4.7	4.7	19.9	16.9	19	100 ± 18 Ohm	
200	32	30.8	30.8	3	3	17.7	14.7	19	100 ± 20 Ohm	
250	36.4	29.3	29.3	0	0	15.8	12.8	18	100 ± 20 Ohm	
300	40.5	28.2	28.2	0	0	14.2	11.2	18	100 ± 20 Ohm	
310	41.3	27.9	27.9			13.9	10.9	18	100 ± 20 Ohm	
350	44.3	27.2	27.2			12.9	9.9	17	100 ± 22 Ohm	

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation
60°C	-10°C To +75°C	+5°C To +75°C

Bend Radius

Stationary Min.
0.29 in (7.4 mm)

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	35 lbs/1000ft (52 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1666 Riser, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMR
Data Category:	Category 5e
TIA/EIA Compliance:	NEMA WC-63.1 Category 5e
Third Party Performance Verification:	UL Verified Cat 5e
ISO/IEC Compliance:	Other Standards
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark

Product Notes

Notes:	US Patent #'s 5, 606, 151; 5, 734, 126. Operating temperatures are subject to length de-rating. Cable passes -10C Cold Bend per UL 1581. Outer Shield Separator Material: Polyester.
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History

Update and Revision:	Revision Number: 0.491 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
11700A2 0061000	Blue	Reel	1,000 ft	612825107736	C
Footnote:		C - CRATE REEL PUT-UP.			

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