



Product: [121702A](#)

CAT5e+ Horizontal Bonded-Pair, 2x4pr, UTP, PVC Jkt, CMR, Siamese

Product Description

CAT5e+ (350MHz), Siamese 2X4-Bonded-pairs, U/UTP-unshielded, Riser-CMR, Premise Horizontal cable, 24 AWG solid bare copper conductors, polyolefin insulation, ripcord, PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, IP cameras and devices, data communication, etc. exposure to rodent, crush, or cut through force,
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/patents .

Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
24	Solid	BC - Bare Copper	8

Insulation

Material	Color Code
PO - Polyolefin	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	0.415 x 0.200 in	Yes

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.025 in (0.64 mm)	0.638 in (16.2 mm)

Outer Jacket

Separator	Material	Nom. Diameter
Polyester Tape	PVC - Polyvinyl Chloride	0.738 in (18.7 mm)

Overall Cable Diameter (Nominal):	0.738 in (18.7 mm)
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Electrical Characteristics

Electricals

Max. Conductor DCR
90 Ohm/km (27 Ohm/1000ft)

Delay

Nom. Velocity of Prop.
70%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1	2 dB/100m

4	4 dB/100m
8	5.7 dB/100m
10	6.4 dB/100m
16	8.1 dB/100m
20	9.2 dB/100m
25	10.3 dB/100m
31.25	11.6 dB/100m
62.5	16.8 dB/100m
100	21.7 dB/100m
155	27.7 dB/100m
200	32 dB/100m
250	36.4 dB/100m
300	40.5 dB/100m
310	41.3 dB/100m
350	44.3 dB/100m

Voltage

UL Voltage Rating
300 V (CMG)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Storage
60°C	-40°C To +60°C	-40°C To +60°C

Bend Radius

Stationary Min.
7.5 in (190 mm)

Max. Pull Tension:	200 lbs (91 kg)
Bulk Cable Weight:	182 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Indoor
NEC / UL Compliance:	CM
CEC / C(UL) Compliance:	CM
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 5e
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Jacket sequentially marked at 2 ft. intervals. U.S. Patents 5,606,151 and 5,734,126. Third party verified to TIA/EIA-568-B.2, Category 5e.
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History

Update and Revision:	Revision Number: 0.71 Revision Date: 05-31-2024
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