




Product: [1227A1](#) 

Category 3 Horizontal Cable, 2 Pair, U/UTP, CMR

Product Description

Category 3 Premise Horizontal Cable (16MHz), 2 Pair, 24 AWG Solid Bare Copper Conductors, U/UTP, Riser-CMR, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Ethernet 10BASE-T, Analog Phone, FAX
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Construction Details

Conductor

AWG	Stranding	Material	Number of Pairs
24	Solid	BC - Bare Copper	2

Insulation

Material	Color Code
PO - Polyolefin	White/Blue Stripe & Blue, White/Orange Stripe & Orange

Bonded-Pair:	No
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Outer Jacket Material

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.173 in	No

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalance	Max. Capacitance Unbalance	Nom. Mutual Capacitance
93.8 Ohm/km	5%	90 pF/100m	15 pF/ft

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nom. Velocity of Propagation (VP) [%]
16 MHz	543 ns/100m	45 ns/100m	70%

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. SRL (Structural Return Loss)	Max./Min. Fitted Impedance
1 MHz	2.6 dB/100m	41.0 dB	12.0 dB	100 ± 15 Ohm
4 MHz	5.6 dB/100m	32.0 dB	12.0 dB	100 ± 15 Ohm
8 MHz	8.5 dB/100m	27.0 dB	12.0 dB	100 ± 15 Ohm
10 MHz	9.7 dB/100m	26.0 dB	12.0 dB	100 ± 15 Ohm
16 MHz	13.1 dB/100m	23.0 dB	10.0 dB	100 ± 15 Ohm

Voltage

UL Voltage Rating
300 V (CMR)

Mechanical Characteristics

Temperature

UL Rating	Operating	Installation	Storage
75°C	-20°C To +75°C	0°C To +50°C	-20°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
1.0 in	1.75 in

Max. Pull Tension:	15 lbs
Bulk Cable Weight:	12 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Riser, Indoor, Outdoor, Sunlight Resistance
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Fire Resistance:	UL 1666 Riser, FT4, FT4, IEC 60332-1-2
NEC / UL Compliance:	800, CMR
CEC / C(UL) Compliance:	CMR
ICEA Compliance:	S-90-661-2012
NEMA Compliance:	NEMA WC-63.1
Data Category:	Category 3
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 3
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Part Number

Plenum Number:	1243A2
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Variants

Item #	Color	Putup Type	Length	UPC
1227A1 008U1000	Gray	UnReel	1,000 ft	612825109266
1227A1 Q5HU1000	White	UnReel	1,000 ft	612825109259

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Print Includes Descending Footage Markings.
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History

Update and Revision:	Revision Number: 0.383 Revision Date: 09-30-2020
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