



Product: [1583A](#)

Category 5e Cable, 4 Pair, U/UTP, CMR

Product Description

Category 5e Premise Horizontal Cable (200MHz), 4 Pair, 24 AWG Solid Bare Copper Conductors, U/UTP, Riser-CMR, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Premise Horizontal Cable, Ethernet 1000BASE-T, Ethernet 100BASE-TX, Ethernet 10BASE-T, PoE++, PoE+, PoE
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/resources/patents .

Construction Details

Conductor

AWG	Stranding	Material	Number of Pairs
24	Solid	BC - Bare Copper	4

Insulation

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

Bonded-Pair:	No
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Outer Jacket Material

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.190 in	Yes

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalance	Max. DCR Unbalanced Between Pairs [%]	Max. Capacitance Unbalance	Nom. Mutual Capacitance
93.8 Ohm/km	5%	5%	330 pF/100m	15 pF/ft

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nom. Velocity of Propagation (VP) [%]
100 MHz	537.6 ns/100m	45 ns/100m	70%

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	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 MHz	2.0 dB/100m	65.3 dB	62.3 dB	63.3 dB	60.3 dB	63.8 dB	60.8 dB	20.0 dB	100 ± 15 Ohm	100 ± 15 Ohm
4 MHz	4.1 dB/100m	56.3 dB	53.3 dB	52.2 dB	49.2 dB	51.8 dB	48.8 dB	23.0 dB	100 ± 15 Ohm	100 ± 15 Ohm
8 MHz	5.8 dB/100m	51.8 dB	48.8 dB	46.0 dB	43.0 dB	45.7 dB	42.7 dB	24.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
10 MHz	6.5 dB/100m	50.3 dB	47.3 dB	43.8 dB	40.8 dB	43.8 dB	40.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm
16 MHz	8.2 dB/100m	47.2 dB	44.2 dB	39.0 dB	36.0 dB	39.7 dB	36.7 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm
20 MHz	9.3 dB/100m	45.8 dB	42.8 dB	36.5 dB	33.5 dB	37.8 dB	34.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm
25 MHz	10.4 dB/100m	44.3 dB	41.3 dB	33.9 dB	30.9 dB	35.8 dB	32.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 15 Ohm
31.25 MHz	11.7 dB/100m	42.9 dB	39.9 dB	31.2 dB	28.2 dB	33.9 dB	30.9 dB	23.6 dB	100 ± 15 Ohm	100 ± 15 Ohm
62.5 MHz	17.0 dB/100m	38.4 dB	35.4 dB	21.4 dB	18.4 dB	27.9 dB	24.9 dB	21.5 dB	100 ± 15 Ohm	100 ± 15 Ohm

100 MHz	22.0 dB/100m	35.3 dB	32.3 dB	13.3 dB	10.3 dB	23.8 dB	20.8 dB	20.1 dB	100 ± 15 Ohm	100 ± 15 Ohm
155 MHz	28.1 dB/100m	32.4 dB	29.4 dB	4.4 dB	1.4 dB	20.0 dB	17.0 dB	18.8 dB		
200 MHz	32.4 dB/100m	30.8 dB	27.8 dB			17.8 dB	14.8 dB	18.0 dB		

Table Notes: Third party verified to TIA/EIA-568-B.2, Category 5E

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	2.0 in

Max. Pull Tension: 25 lbs

Bulk Cable Weight: 18 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Riser, Indoor
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
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3
NEMA Compliance:	NEMA WC-63.1
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 5e
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: 1585A

Variants

Item #	Color	Putup Type	Length	UPC/EAN
1583A 006Z1000				612825432197
1583A 006Z1000				612825432197
1583A 010Z1000				612825432272
1583A 010Z1000				612825432272
1583A 0061100				
1583A 0081003				612825118039
ND0481 0041000				
1583A.05305	Black			
1583A 0101000	Black	Reel	305 m	612825317661
1583A 010U1000	Black	UnReel	305 m	612825118145
1583A 0101000	Black	Reel	1,000 ft	612825317661
1583A 0101000	Black	Reel	1,000 ft	612825317661
1583A 010U1000	Black	UnReel	1,000 ft	612825118145
1583A 010U1000	Black	UnReel	1,000 ft	612825118145
1583A.01305	Blue			
1583A.01U305	Blue			
1583A 0061000	Blue	Reel	1,000 ft	612825117940
1583A 0061000	Blue	Reel	1,000 ft	612825117940

1583A 006U1000	Blue	UnReel	1,000 ft	612825117926
1583A 006U1000	Blue	UnReel	1,000 ft	612825117926
1583A 006U1000	Blue	Unreel	1,000 ft	
1583A 0061640	Blue	Reel	1,640 ft	612825117964
1583A 0061640	Blue	Reel	1,640 ft	612825117964
1583A 0063000	Blue	Reel	3,000 ft	612825117988
1583A 0063000	Blue	Reel	3,000 ft	612825117988
1583A 0061000	Blue, Light	Reel	305 m	612825117940
1583A 006U1000	Blue, Light	UnReel	305 m	612825117926
1583A 0061640	Blue, Light	Reel	500 m	612825117964
1583A 0063000	Blue, Light	Reel	914 m	612825117988
1583A 0081000	Gray	Reel	305 m	612825118022
1583A 008U1000	Gray	UnReel	305 m	612825118008
1583A 0081640	Gray	Reel	500 m	612825118046
1583A 0083000	Gray	Reel	914 m	612825118060
1583A 0081000	Gray	Reel	1,000 ft	612825118022
1583A 0081000	Gray	Reel	1,000 ft	612825118022
1583A 008U1000	Gray	UnReel	1,000 ft	612825118008
1583A 008U1000	Gray	UnReel	1,000 ft	612825118008
1583A 0081640	Gray	Reel	1,640 ft	612825118046
1583A 0081640	Gray	Reel	1,640 ft	612825118046
1583A 0083000	Gray	Reel	3,000 ft	612825118060
1583A 0083000	Gray	Reel	3,000 ft	612825118060
1583A.00305	Gray, Dark Pearl	Reel	305 m	8719605001900
1583A.00U305	Gray, Dark Pearl	UnReel	305 m	8719605001917
1583A.03305	Green			
1583A.03U305	Green			
1583A 0051000	Green	Reel	1,000 ft	612825117902
1583A 0051000	Green	Reel	1,000 ft	612825117902
1583A 005U1000	Green	UnReel	1,000 ft	612825317654
1583A 005U1000	Green	UnReel	1,000 ft	612825317654
1583A 005U1000	Green	Unreel	1,000 ft	
1583A 0051000	Green, Dark	Reel	305 m	612825117902
1583A 005U1000	Green, Dark	UnReel	305 m	612825317654
1583A 008U1000	Grey	Unreel	1,000 ft	
1583A 0031000	Orange	Reel	305 m	612825117834
1583A 003U1000	Orange	UnReel	305 m	612825117810
1583A 0031000	Orange	Reel	1,000 ft	612825117834
1583A 0031000	Orange	Reel	1,000 ft	612825117834
1583A 003U1000	Orange	UnReel	1,000 ft	612825117810
1583A 003U1000	Orange	UnReel	1,000 ft	612825117810
1583A.02305	Orange, RAL 2003			
1583A.06305	Pink			
1583A 0121000	Pink	Reel	305 m	612825118176
1583A 012U1000	Pink	UnReel	305 m	612825118152
1583A 0121000	Pink	Reel	1,000 ft	612825118176
1583A 0121000	Pink	Reel	1,000 ft	612825118176
1583A 012U1000	Pink	UnReel	1,000 ft	612825118152
1583A 012U1000	Pink	UnReel	1,000 ft	612825118152
1583A 0021000	Red	Reel	305 m	612825317647
1583A 002U1000	Red	UnReel	305 m	612825117780
1583A 0021000	Red	Reel	1,000 ft	612825317647
1583A 002U1000	Red	UnReel	1,000 ft	612825117780
1583A 002U1000	Red	UnReel	1,000 ft	612825117780
1583A 0021000	Red	Reel	1,000 ft	612825317647
1583A 002U1000	Red	Unreel	1,000 ft	
1583A.07305	Red, RAL 3000			
1583A.07U305	Red, RAL 3000			
1583A.04305	White			
1583A 0091000	White	Reel	305 m	612825118107
1583A 009U1000	White	UnReel	305 m	612825118084

1583A 0093000	White	Reel	914 m	612825118121
1583A 0091000	White	Reel	1,000 ft	612825118107
1583A 0091000	White	Reel	1,000 ft	612825118107
1583A 009U1000	White	UnReel	1,000 ft	612825118084
1583A 009U1000	White	UnReel	1,000 ft	612825118084
1583A 0093000	White	Reel	3,000 ft	612825118121
1583A 0093000	White	Reel	3,000 ft	612825118121
1583A 0041000	Yellow	Reel	305 m	612825117872
1583A 004U1000	Yellow	UnReel	305 m	612825117858
1583A 0041000	Yellow	Reel	1,000 ft	612825117872
1583A 0041000	Yellow	Reel	1,000 ft	612825117872
1583A 004U1000	Yellow	UnReel	1,000 ft	612825117858
1583A 004U1000	Yellow	UnReel	1,000 ft	612825117858
1583A.13305	Yellow, RAL 1021			

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Values above 100 MHz are for Engineering Information Only. Print Includes Descending Footage Markings from Max. Put-Up Length to 0.
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History

Update and Revision:	Revision Number: 0.458 Revision Date: 10-09-2020
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