



Product: [1872A](#)

Category 6+ Cable, 4 Bonded-Pairs, U/UTP, CMR

Product Description

Category 6+ Premise Horizontal Cable (350MHz), 4 Bonded-Pairs, 23 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
23	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: Yes

Outer Jacket Material

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.365 x 0.165 in	Yes

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalance	Max. Capacitance Unbalance	Nom. Mutual Capacitance
75 Ohm/km	3%	49 pF/100m	15 pF/ft

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nom. Velocity of Propagation (VP) [%]
100 MHz	537.6 ns/100m	25 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	1.9 dB/100m	75.3 dB	75.3 dB	73.4 dB	73.4 dB	67.8 dB	64.8 dB	20.0 dB	100 ± 12 Ohm	100 ± 15 Ohm
4 MHz	3.7 dB/100m	66.3 dB	66.3 dB	62.6 dB	62.6 dB	55.7 dB	52.8 dB	23.0 dB	100 ± 12 Ohm	100 ± 15 Ohm
8 MHz	5.3 dB/100m	61.8 dB	61.8 dB	56.5 dB	56.5 dB	49.7 dB	46.7 dB	24.5 dB	100 ± 12 Ohm	100 ± 15 Ohm
10 MHz	5.9 dB/100m	60.3 dB	60.3 dB	54.4 dB	54.4 dB	47.8 dB	44.8 dB	25.0 dB	100 ± 12 Ohm	100 ± 15 Ohm
16 MHz	7.5 dB/100m	57.2 dB	57.2 dB	49.7 dB	49.7 dB	43.7 dB	40.7 dB	25.0 dB	100 ± 12 Ohm	100 ± 8 Ohm
20 MHz	8.4 dB/100m	55.8 dB	55.8 dB	47.3 dB	47.3 dB	41.8 dB	38.8 dB	25.0 dB	100 ± 12 Ohm	100 ± 8 Ohm
25 MHz	9.5 dB/100m	54.3 dB	54.3 dB	44.9 dB	44.9 dB	39.8 dB	36.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 8 Ohm
31.25 MHz	10.6 dB/100m	52.9 dB	52.9 dB	42.2 dB	42.2 dB	37.9 dB	34.9 dB	23.6 dB	100 ± 15 Ohm	100 ± 8 Ohm
62.5 MHz	15.4 dB/100m	48.4 dB	48.4 dB	33.0 dB	33.0 dB	31.8 dB	28.9 dB	21.5 dB	100 ± 15 Ohm	100 ± 8 Ohm

100 MHz	19.8 dB/100m	45.3 dB	45.3 dB	25.5 dB	25.5 dB	27.8 dB	24.8 dB	21.0 dB	100 ± 15 Ohm	100 ± 8 Ohm
155 MHz	25.1 dB/100m	42.4 dB	42.4 dB	17.3 dB	17.3 dB	24.0 dB	21.0 dB	21.0 dB	100 ± 15 Ohm	100 ± 8 Ohm
200 MHz	29.0 dB/100m	40.8 dB	40.8 dB	11.8 dB	11.8 dB	21.7 dB	18.8 dB	21.0 dB	100 ± 15 Ohm	100 ± 8 Ohm
250 MHz	32.8 dB/100m	39.3 dB	39.3 dB	6.5 dB	6.5 dB	19.8 dB	16.8 dB	18.0 dB	100 ± 20 Ohm	100 ± 8 Ohm
300 MHz	36.4 dB/100m	38.1 dB	38.1 dB	1.7 dB	1.7 dB	18.3 dB	15.3 dB	18.0 dB	100 ± 20 Ohm	100 ± 8 Ohm
310 MHz	39.8 dB/100m	37.1 dB	37.1 dB	-2.6 dB	-2.6 dB	16.9 dB	13.9 dB	17.0 dB	100 ± 22 Ohm	100 ± 8 Ohm
350 MHz	43.0 dB/100m	36.3 dB	36.3 dB			15.8 dB	12.8 dB	14.0 dB	100 ± 32 Ohm	100 ± 8 Ohm
400 MHz	46.0 dB/100m	35.5 dB	35.5 dB			14.7 dB	11.7 dB	14.0 dB	100 ± 32 Ohm	100 ± 8 Ohm
500 MHz	48.9 dB/100m	34.8 dB	34.8 dB			13.8 dB	10.8 dB	14.0 dB	100 ± 32 Ohm	100 ± 8 Ohm
550 MHz	51.8 dB/100m	34.2 dB	34.2 dB			13.0 dB	10.0 dB	14.0 dB	100 ± 32 Ohm	100 ± 8 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.
0.5 in	1.75 in

Max. Pull Tension: 40 lbs

Bulk Cable Weight: 32 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-116-732-2013
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
NEMA Compliance:	ANSI/NEMA WC-66
Data Category:	Category 6
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 6
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: 1874A

Variants

Item #	Color	Putup Type	Length	UPC
1872A 0101000	Black	Reel	1,000 ft	612825125464
1872A 0061000	Blue	Reel	1,000 ft	612825125419
1872A 006A1000	Blue	Reel-in-Box	1,000 ft	612825125402
1872A X6G1000	Gold	Reel	1,000 ft	612825125310
1872A X6GA1000	Gold	Reel-in-Box	1,000 ft	612825125303
1872A F6H1000	Gray	Reel	1,000 ft	612825125297
1872A F6HA1000	Gray	Reel-in-Box	1,000 ft	612825320647
1872A 0051000	Green	Reel	1,000 ft	612825125396
1872A 005A1000	Green	Reel-in-Box	1,000 ft	612825125389
1872A 0031000	Orange	Reel	1,000 ft	612825125358
1872A 003A1000	Orange	Reel-in-Box	1,000 ft	612825125341
1872A 0071000	Purple	Reel	1,000 ft	612825125433

1872A 007A1000	Purple	Reel-in-Box	1,000 ft	612825125426
1872A 0021000	Red	Reel	1,000 ft	612825125334
1872A 002A1000	Red	Reel-in-Box	1,000 ft	612825125327
1872A 0091000	White	Reel	1,000 ft	612825125457
1872A 009A1000	White	Reel-in-Box	1,000 ft	612825125440
1872A 0041000	Yellow	Reel	1,000 ft	612825125372
1872A 004A1000	Yellow	Reel-in-Box	1,000 ft	612825125365

Product Notes

Notes: Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Values above 350 MHz are for Engineering Information Only. Print Includes Descending Footage Markings from Max. Put-Up Length to 0.

History

Update and Revision: Revision Number: 0.418 Revision Date: 09-30-2020

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