



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	Nom. Velocity of Prop.
75 Ohm/km	3%	49 pF/100m	15 pF/ft	70%

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
----------------------	--

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

[1872A F6HA1000](#) [1872A 006A1000](#) [1872A X6GA1000](#) [1872A X6G1000](#) [1872A 005A1000](#) [1872A F6H1000](#) [1872A 003A1000](#) [1872A 002A1000](#) [1872A 007A1000](#) [1872A 009A1000](#) [1872A 004A1000](#)