



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/patents .

Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
23 AWG	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	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.365 x 0.165 in	Yes

Overall Cable Diameter (Nominal):	0.365 x 0.165 in
-----------------------------------	------------------

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
75 Ohm/km (23 Ohm/1000ft)	49 pF/100m

Delay

Frequency	Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
100 MHz	537.6 ns/100m	25 ns/100m	70%

High Frequency

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) [Ohm]	Max./Min. Fitted Impedance [Ohm]
1	1.9 dB/100m	75.3	75.3	73.4	73.4	67.8	64.8	20.0	100 ± 12	100 ± 15
4	3.7 dB/100m	66.3	66.3	62.6	62.6	55.7	52.8	23.0	100 ± 12	100 ± 15
8	5.3 dB/100m	61.8	61.8	56.5	56.5	49.7	46.7	24.5	100 ± 12	100 ± 15
10	5.9 dB/100m	60.3	60.3	54.4	54.4	47.8	44.8	25.0	100 ± 12	100 ± 15
16	7.5 dB/100m	57.2	57.2	49.7	49.7	43.7	40.7	25.0	100 ± 12	100 ± 8
20	8.4 dB/100m	55.8	55.8	47.3	47.3	41.8	38.8	25.0	100 ± 12	100 ± 8
25	9.5 dB/100m	54.3	54.3	44.9	44.9	39.8	36.8	24.3	100 ± 15	100 ± 8
31.25	10.6 dB/100m	52.9	52.9	42.2	42.2	37.9	34.9	23.6	100 ± 15	100 ± 8

62.5	15.4 dB/100m	48.4	48.4	33.0	33.0	31.8	28.9	21.5	100 ± 15	100 ± 8
100	19.8 dB/100m	45.3	45.3	25.5	25.5	27.8	24.8	21.0	100 ± 15	100 ± 8
155	25.1 dB/100m	42.4	42.4	17.3	17.3	24.0	21.0	21.0	100 ± 15	100 ± 8
200	29.0 dB/100m	40.8	40.8	11.8	11.8	21.7	18.8	21.0	100 ± 15	100 ± 8
250	32.8 dB/100m	39.3	39.3	6.5	6.5	19.8	16.8	18.0	100 ± 20	100 ± 8
300	36.4 dB/100m	38.1	38.1	1.7	1.7	18.3	15.3	18.0	100 ± 20	100 ± 8
310	39.8 dB/100m	37.1	37.1	-2.6	-2.6	16.9	13.9	17.0	100 ± 22	100 ± 8
350	43.0 dB/100m	36.3	36.3			15.8	12.8	14.0	100 ± 32	100 ± 8
400	46.0 dB/100m	35.5	35.5			14.7	11.7	14.0	100 ± 32	100 ± 8
500	48.9 dB/100m	34.8	34.8			13.8	10.8	14.0	100 ± 32	100 ± 8
550	51.8 dB/100m	34.2	34.2			13.0	10.0	14.0	100 ± 32	100 ± 8

Voltage

UL Voltage Rating
300 V (CMR)

Mechanical Characteristics

Temperature

UL Temperature	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 (13 mm)	1.75 in (44.5 mm)

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	32 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Riser, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	UL 1666 Riser, FT4, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 800, CMR
CEC / C(UL) Compliance:	CMR
ICEA Compliance:	S-116-732
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
Third Party Performance Verification:	Category 6
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-5
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	1874A

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: 0.539 Revision Date: 09-07-2025
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1872A 0101000	Black	Reel	1,000 ft	612825125464	C

1872A 0061000	Blue	Reel	1,000 ft	612825125419	C
1872A 006A1000	Blue	Reel-in-Box	1,000 ft	612825125402	
1872A X6G1000	Gold	Reel	1,000 ft	612825125310	C
1872A X6GA1000	Gold	Reel-in-Box	1,000 ft	612825125303	
1872A F6H1000	Gray	Reel	1,000 ft	612825125297	C
1872A F6HA1000	Gray	Reel-in-Box	1,000 ft	612825320647	
1872A 0051000	Green	Reel	1,000 ft	612825125396	C
1872A 005A1000	Green	Reel-in-Box	1,000 ft	612825125389	
1872A 0031000	Orange	Reel	1,000 ft	612825125358	C
1872A 003A1000	Orange	Reel-in-Box	1,000 ft	612825125341	
1872A 0071000	Purple	Reel	1,000 ft	612825125433	C
1872A 007A1000	Purple	Reel-in-Box	1,000 ft	612825125426	
1872A 0021000	Red	Reel	1,000 ft	612825125334	C
1872A 002A1000	Red	Reel-in-Box	1,000 ft	612825125327	
1872A 0091000	White	Reel	1,000 ft	612825125457	C
1872A 009A1000	White	Reel-in-Box	1,000 ft	612825125440	
1872A 0041000	Yellow	Reel	1,000 ft	612825125372	C
1872A 004A1000	Yellow	Reel-in-Box	1,000 ft	612825125365	

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

© 2025 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.