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: 0.536 Revision Date: 12-12-2023

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	

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