



Product: [2432](#)

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

Product Description

Category 6+ Enhanced 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, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM
Patent:	This product has one or more applicable patents. More information on patents can be found at <a href="https://www.belden.com/patents">https://www.belden.com/patents</a> .

Physical Characteristics (Overall)

Conductor			
AWG	Stranding	Material	No. of Pairs
23	Solid	BC - Bare Copper	4
Conductor Count:		8	
Total Number of Pairs:		4	

Insulation	
Material	
PO - Polyolefin	
Bonded-Pair:	N/A

Color Chart	
Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Outer Jacket		
Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.216 in	Yes

Electrical Characteristics

Conductor DCR	
Max. Conductor DCR	Max. DCR Unbalance
78 Ohm/km	3.0 %

Capacitance	
Max. Capacitance Unbalance	Nom.Mutual Capacitance
330 pF/100m	17 pF/ft

Delay		
Max. Delay	Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
537.6 ns/100m	35 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)	Max./Min. Fitted Impedance	Min. PSANEXT	Min. PSAACRF
1 MHz	2.0 dB/100m	79.3 dB	77.3 dB	77.3 dB	75.3 dB	70.8 dB	67.8 dB	20.0 dB	100 ± 15	102 ± 15	77.0 dB	67.0 dB
4 MHz	3.7 dB/100m	70.3 dB	68.3 dB	66.5 dB	64.5 dB	58.8 dB	55.8 dB	23.6 dB	100 ± 15	100 ± 15	77.0 dB	66.2 dB
8 MHz	5.3 dB/100m	65.8 dB	63.8 dB	60.5 dB	58.5 dB	52.7 dB	49.7 dB	25.3 dB	100 ± 15	100 ± 15	77.0 dB	60.1 dB
10 MHz	5.9 dB/100m	64.3 dB	62.3 dB	58.4 dB	56.4 dB	50.8 dB	47.8 dB	26.0 dB	100 ± 15	100 ± 15	77.0 dB	58.2 dB
16 MHz	7.4 dB/100m	61.2 dB	59.2 dB	53.8 dB	51.8 dB	46.7 dB	43.7 dB	26.0 dB	100 ± 15	100 ± 15	74.4 dB	54.1 dB
20 MHz	8.3 dB/100m	59.8 dB	57.8 dB	51.4 dB	49.4 dB	44.8 dB	41.8 dB	26.0 dB	100 ± 15	100 ± 15	73.0 dB	52.2 dB
25 MHz	9.4 dB/100m	58.3 dB	56.3 dB	49.0 dB	47.0 dB	42.8 dB	39.8 dB	25.5 dB	100 ± 15	100 ± 15	71.5 dB	50.2 dB
31.25 MHz	10.5 dB/100m	56.9 dB	54.9 dB	46.4 dB	44.4 dB	40.9 dB	37.9 dB	25.0 dB	100 ± 15	100 ± 15	70.1 dB	48.3 dB
62.5 MHz	15.1 dB/100m	52.4 dB	50.4 dB	37.3 dB	35.3 dB	34.9 dB	31.9 dB	23.5 dB	100 ± 15	100 ± 15	65.6 dB	42.3 dB
100 MHz	19.3 dB/100m	49.3 dB	47.3 dB	30.0 dB	28.0 dB	30.8 dB	27.8 dB	22.5 dB	100 ± 15	100 ± 15	62.5 dB	38.2 dB
155 MHz	24.5 dB/100m	46.4 dB	44.4 dB	21.9 dB	19.9 dB	27.0 dB	24.0 dB	21.6 dB	100 ± 22	100 ± 15	58.0 dB	32.2 dB
200 MHz	28.3 dB/100m	44.8 dB	42.8 dB	16.6 dB	14.6 dB	24.8 dB	21.8 dB	21.0 dB	100 ± 22	100 ± 15	56.5 dB	30.2 dB
250 MHz	31.8 dB/100m	43.3 dB	41.3 dB	11.5 dB	9.5 dB	22.8 dB	19.8 dB	20.5 dB	100 ± 32	100 ± 15	55.3 dB	28.7 dB
300 MHz	35.2 dB/100m	42.1 dB	40.1 dB	6.9 dB	4.9 dB	21.3 dB	18.3 dB	20.1 dB	100 ± 32	100 ± 15	54.3 dB	27.3 dB
350 MHz	38.4 dB/100m	41.1 dB	39.1 dB	2.7 dB	0.7 dB	19.9 dB	16.9 dB	19.8 dB	100 ± 32	100 ± 15	53.5 dB	26.2 dB
400 MHz	41.5 dB/100m	40.3 dB	38.3 dB			18.8 dB	15.8 dB	19.5 dB	100 ± 32	100 ± 15	52.7 dB	25.1 dB
450 MHz	44.3 dB/100m	39.5 dB	37.5 dB			17.7 dB	14.7 dB	19.2 dB	100 ± 32	100 ± 15	52.0 dB	24.2 dB
500 MHz	47.1 dB/100m	38.8 dB	36.8 dB			16.8 dB	13.8 dB	19.0 dB	100 ± 32	100 ± 15		
550 MHz	49.7 dB/100m	38.2 dB	36.2 dB			16.0 dB	13.0 dB	18.8 dB	100 ± 32	100 ± 15		

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Installation Temperature Range:	0°C To +50°C
UL Temp Rating:	75°C
Storage Temperature Range:	-20°C To +75°C
Operating Temperature Range:	-20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	22 lbs/1000ft
Max. Pull Tension:	25 lbs
Min. Bend Radius/Minor Axis:	1.0 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMR
ISO/IEC Compliance:	11801 ed 2.2 (2011) Class E
CPR Euroclass:	Eca
Data Category:	Category 6
ANSI Compliance:	S-116-732-2013 Category 6, ANSI/NEMA WC-66 Category 6
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 6
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Third Party Performance Verification:	Category 6

Applicable Environmental and Other Programs

Environmental Space:	Riser
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes

EU REACH SVHC Compliance (yyyy-mm-dd):	2017-07-10
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Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	No
Suitability - Oil Resistance:	No
Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL 1666 Riser
IEC Flammability:	IEC 60332-1-2

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	2433

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/Meter Markings from Max. Put-Up Length to 0.
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History

Update and Revision:	Revision Number: 0.252 Revision Date: 04-29-2024
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