
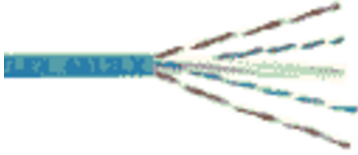


Product: [4824](#) 

CAT6"E" Horizontal, 4pr, UTP, LSZH Jkt



Product Description

CAT6 Enhanced (600MHz), 4-Pair, U/UTP-unshielded, Zero Halogen, Premise Horizontal cable, 23 AWG solid bare copper conductors, polyolefin insulation, X-spline, ripcord, LSZH jacket.

Technical Specifications

Product Overview

Suitable Applications:	Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, Noisy Environments
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
23	Solid	BC - Bare Copper	4

Conductor Count: 8

Insulation

Material
PO - Polyolefin

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

Material	Material Trade Name	Nominal Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Haloarrest®	0.245 in	Yes

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. DCR Unbalance	Max DCR Unbalanced Between Pairs [%]
67 Ohm/km	3 %	5 %

Capacitance

Max. Capacitance Unbalance	Nom.Mutual Capacitance
90 pF/100m	15.5 pF/ft

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew
100 MHz	537.6 ns/100m	45 ns/100m

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	Min. TCL [dB]	Min. ELTCTL [dB]
0.772 MHz	1.7 dB/100m	83.0 dB	82.0 dB	81.3 dB	80.3 dB	77.0 dB	75.0 dB			102 ± 15 Ohm	40.0 dB	37.2 dB
1 MHz	1.9 dB/100m	81.3 dB	80.3 dB	79.4 dB	78.4 dB	74.8 dB	72.8 dB	20.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	40.0 dB	35.0 dB
4 MHz	3.5 dB/100m	72.3 dB	71.3 dB	68.8 dB	67.8 dB	62.8 dB	60.8 dB	23.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	40.0 dB	23.0 dB
8 MHz	4.9 dB/100m	67.8 dB	66.8 dB	62.8 dB	61.8 dB	56.7 dB	54.7 dB	24.5 dB	100 ± 15 Ohm	100 ± 15 Ohm	40.0 dB	16.9 dB
10 MHz	5.5 dB/100m	66.3 dB	65.3 dB	60.8 dB	59.8 dB	54.8 dB	52.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	40.0 dB	15.0 dB
16 MHz	7.0 dB/100m	63.2 dB	62.2 dB	56.3 dB	55.3 dB	50.7 dB	48.7 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	38.0 dB	10.9 dB
20 MHz	7.8 dB/100m	61.8 dB	60.8 dB	54.0 dB	53.0 dB	48.8 dB	46.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	37.0 dB	9.0 dB
25 MHz	8.7 dB/100m	60.3 dB	59.3 dB	51.6 dB	50.6 dB	46.8 dB	44.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	36.0 dB	7.0 dB
31.25 MHz	9.8 dB/100m	58.9 dB	57.9 dB	49.1 dB	48.1 dB	44.9 dB	42.9 dB	24.3 dB	100 ± 15 Ohm	100 ± 15 Ohm	35.1 dB	
62.5 MHz	14.1 dB/100m	54.4 dB	53.4 dB	40.3 dB	39.3 dB	38.9 dB	36.9 dB	22.2 dB	100 ± 15 Ohm	100 ± 15 Ohm	32.0 dB	
100 MHz	18.0 dB/100m	51.3 dB	50.3 dB	33.3 dB	32.3 dB	34.8 dB	32.8 dB	20.8 dB	100 ± 15 Ohm	100 ± 15 Ohm	30.0 dB	
155 MHz	22.8 dB/100m	48.4 dB	47.4 dB	25.7 dB	24.7 dB	31.0 dB	29.0 dB	19.5 dB	100 ± 22 Ohm	100 ± 15 Ohm	28.1 dB	
200 MHz	26.2 dB/100m	46.8 dB	45.8 dB	20.6 dB	19.6 dB	28.8 dB	26.8 dB	18.7 dB	100 ± 22 Ohm	100 ± 15 Ohm	27.0 dB	
250 MHz	29.6 dB/100m	45.3 dB	44.3 dB	15.8 dB	14.8 dB	26.8 dB	24.8 dB	18.0 dB	100 ± 32 Ohm	100 ± 15 Ohm	26.0 dB	
300 MHz	32.7 dB/100m	44.1 dB	43.1 dB	11.4 dB	10.4 dB	25.3 dB	23.3 dB	17.5 dB	100 ± 32 Ohm	100 ± 15 Ohm		
350 MHz	35.6 dB/100m	43.1 dB	42.1 dB	7.5 dB	6.5 dB	23.9 dB	21.9 dB	17.0 dB	100 ± 32 Ohm	100 ± 15 Ohm		
400 MHz	38.4 dB/100m	42.3 dB	41.3 dB	3.9 dB	2.9 dB	22.8 dB	20.8 dB	16.6 dB	100 ± 32 Ohm	100 ± 15 Ohm		
450 MHz	41.0 dB/100m	41.5 dB	40.5 dB	0.5 dB		21.7 dB	19.7 dB	16.2 dB	100 ± 32 Ohm	100 ± 15 Ohm		
500 MHz	43.6 dB/100m	40.8 dB	39.8 dB			20.8 dB	18.8 dB	15.9 dB	100 ± 32 Ohm	100 ± 15 Ohm		
550 MHz	46.0 dB/100m	40.2 dB	39.2 dB			20.0 dB	18.0 dB	15.6 dB	100 ± 32 Ohm	100 ± 15 Ohm		
600 MHz	48.4 dB/100m	39.6 dB	38.6 dB			19.2 dB	17.2 dB	15.4 dB	100 ± 32 Ohm	100 ± 15 Ohm		
650 MHz	50.6 dB/100m	39.1 dB	36.1 dB			18.5 dB	15.5 dB	15.1 dB				
750 MHz	55.0 dB/100ft	38.2 dB	35.2 dB			17.3 dB	14.3 dB	14.7 dB				
860 MHz	59.6 dB/100ft	37.3 dB	34.3 dB			16.1 dB	13.1 dB	14.3 dB				

Segregation class according EN50174-2:

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Voltage

UL Voltage Rating

300 V RMS

Temperature Range

Installation Temp Range:	+5°C To +50°C
Non-UL Temp Rating:	+75°C
Storage Temp Range:	-20°C To +75°C
Operating Temp Range:	-20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	31 lbs/1000ft
Max. Pull Tension:	25 lbs
Min Bend Radius During Installation:	2.5 in
Min Bend Radius/Minor Axis:	1.0 in

Standards

IEC Compliance:	11801 ed 2.2 (2011) Class E
Data Category:	Category 6
ANSI Compliance:	S-116-732-2013 Category 6, ANSI/NEMA WC-66 Category 6
TIA/EIA Compliance:	ANSI/TIA-568-C.2 Category 6

Applicable Environmental and Other Programs

Environmental Space:	LSZH
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes

EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	Yes
EU CE Mark:	No
EU REACH SVHC Compliance (yyyy-mm-dd):	2017-07-10
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LSOH, Toxicity Testing

UL voltage rating:	300 V RMS
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Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	4813

Part Number

Non-Plenum Number:	4812
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Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Values above 600 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: 0.167 Revision Date: 04-08-2020
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