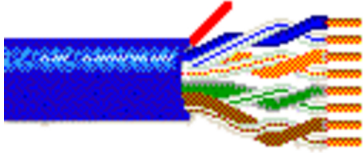


Part Number: 1585A



CAT5e Horizontal, 4pr, UTP, LS-PVC Jkt, CMP

Product Description

CAT5e (200MHz), 4-Pair, U/UTP-unshielded, Plenum-CMP, Premise Horizontal cable, 24 AWG solid bare copper conductors, dual FRPO/FEP insulation, ripcord, Flamarrest® jacket.

Technical Specifications

Product Overview

Environmental Space:	Plenum
Suitable Applications:	Horizontal, 1000BaseT, Gigabit Ethernet, 100BaseTX, Fast Ethernet, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Video, RS-422

Physical Characteristics (Overall)

Conductor

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

Total Number of Conductors:	8
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Insulation

Material
FEP - Fluorinated Ethylene Propylene

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 Shield Material

Material
N/A

Outer Jacket Material

Material	Nominal Diameter	Ripcord
LS PVC - Low Smoke Polyvinyl Chloride	0.190 in	Yes

Electrical Characteristics

Capacitance

Max. Capacitance Unbalance	Nom.Mutual Capacitance
330 pF/100m	15 pF/ft

Shielding:	UTP - Unshielded
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Construction and Dimensions

Total Number of Pairs:	4
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Conductor DCR

Max. Conductor DCR	Max. DCR Unbalance
9.38 Ohm/100m	5 %

Delay

Max. Delay	Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
@ 100 MHz 537.6 ns/100m	45 ns/100m	72 %

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	2.0 dB/100m	65.3 dB	62.3 dB	63.3 dB	60.3 dB	63.8 dB	60.8 dB	20.0 dB	100 ± 15 Ohm	100 ± 15 Ohm
4 MHz	4.1 dB/100m	56.3 dB	53.3 dB	52.2 dB	49.2 dB	51.8 dB	48.8 dB	23.0 dB	100 ± 15 Ohm	100 ± 15 Ohm
8 MHz	5.8 dB/100m	51.8 dB	48.8 dB	46.0 dB	43.0 dB	45.7 dB	42.7 dB	24.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
10 MHz	6.5 dB/100m	50.3 dB	47.3 dB	43.8 dB	40.8 dB	43.8 dB	40.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm
16 MHz	8.2 dB/100m	47.2 dB	44.2 dB	39.0 dB	36.0 dB	39.7 dB	36.7 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm
20 MHz	9.3 dB/100m	45.8 dB	42.8 dB	36.5 dB	33.5 dB	37.8 dB	34.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm
25 MHz	10.4 dB/100m	44.3 dB	41.3 dB	33.9 dB	30.9 dB	35.8 dB	32.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 15 Ohm
31.25 MHz	11.7 dB/100m	42.9 dB	39.9 dB	31.2 dB	28.2 dB	33.9 dB	30.9 dB	23.6 dB	100 ± 15 Ohm	100 ± 15 Ohm
62.5 MHz	17.0 dB/100m	38.4 dB	35.4 dB	21.4 dB	18.4 dB	27.9 dB	24.9 dB	21.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
100 MHz	22.0 dB/100m	35.3 dB	32.3 dB	13.3 dB	10.3 dB	23.8 dB	20.8 dB	20.1 dB	100 ± 15 Ohm	100 ± 15 Ohm
155 MHz	28.1 dB/100m	32.4 dB	29.4 dB	4.4 dB	1.4 dB	20.0 dB	17.0 dB	18.8 dB		
200 MHz	32.4 dB/100m	30.8 dB	27.8 dB	4.0 dB	1.0 dB	17.8 dB	14.8 dB	18.0 dB		

Voltage

UL Voltage Rating
300V RMS

Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CMP
EU Directive 2000/53/EC (ELV):	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
Third Party Performance Verification:	Category 5e
EU CE Mark:	Yes
EU REACH SVHC Compliance (yyyy-mm-dd):	2017-07-10
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CPR Euroclass:	Eca
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	ANSI/TIA-568-C.2 Category 5e
Patent:	http://www.belden.com/p

Standards

ISO/IEC Compliance:	11801 ed 2.2 (2011) Class D
ANSI/TIA Category:	Category 5e
ANSI Compliance:	S-90-661-2012 Category 5e, ANSI/NEMA WC-63.1 Category 5e

IEEE Specification:	POE per 802.3af & POE+ per 802.3at-2009
NEC Articles:	800
NEC/(UL) Specification:	CMP

Flame Test

CSA Flammability:	FT6
C(UL) Flammability:	FT6
UL Flammability:	NFPA 262 Plenum (UL 910)

Safety

UL Voltage Rating:	300 V RMS
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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

Mechanical Characteristics

Storage Temp Range:	-20°C To +75°C
Installation Temp Range:	0°C To +50°C
Operating Temp Range:	-20°C To +75°C
Bulk Cable Weight:	21(lbs/1000ft)
Max Recommended Pulling Tension:	25(lbs)
Min Bend Radius/Minor Axis:	1.0(in)
Min Bend Radius/Installation:	2.0(in)

Temperature Range

UL Temp Rating:	75°C
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Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	1583A
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History

Variants

Item #	Color
1585A 0101000	BLACK
1585A 010500	BLACK
1585A 010U1000	BLACK
1585A D151000	BLUE
1585A D153000	BLUE
1585A D15U1000	BLUE
1585A 0081000	GRAY
1585A 008U1000	GRAY
1585A 0051000	GREEN
1585A 005U1000	GREEN
1585A 8771000	Natural

1585A 877U1000	Natural
1585A 0031000	ORANGE
1585A 003U1000	ORANGE
1585A 0121000	Pink
1585A 012U1000	Pink
1585A 0021000	RED
1585A 002U1000	RED
1585A 0091000	WHITE
1585A 009U1000	WHITE
1585A 0041000	YELLOW
1585A 004U1000	YELLOW

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