



Part Number: 1583A
CAT5e Horizontal, 4pr, UTP, PVC Jkt, CMR

Product Description

CAT5e (200MHz), 4-Pair, U/UTP-unshielded, Riser-CMR, Premise Horizontal cable, 24 AWG solid bare copper conductors, polyolefin insulation, ripcord, PVC jacket.

Technical Specifications

Construction and Dimensions

Conductor:

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

Insulation:

Material
PO - Polyolefin

Color Chart 1:

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

Outershield 1:

Material
Unshielded

Outerjacket 1:

Material	Nominal Diameter	Ripcord
PVC- Polyvinyl Chloride	0.190 in	Yes

Electrical Characteristics

Conductor DCR:

Max. Conductor DCR	Max. DCR Unbalance
9.38 Ohm/100m	3 %

Capacitance:

Nom.Mutual Capacitance
15 pF/ft

Delay:

Max. Delay	Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
538 ns/100m	45 ns/100m	70 %

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)
1 MHz	2.0 dB/100m	65.3 dB	62.3 dB	63.0 dB	60.3 dB	63.8 dB	60.8 dB	20.0 dB	100 ± 15 Ohm
4 MHz	4.1 dB/100m	56.3 dB	53.3 dB	51.0 dB	49.2 dB	51.7 dB	48.7 dB	23.0 dB	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
10 MHz	6.5 dB/100m	50.3 dB	47.3 dB	43.0 dB	40.8 dB	43.8 dB	40.8 dB	25.0 dB	100 ± 15 Ohm
16 MHz	8.2 dB/100m	47.3 dB	44.3 dB	39.0 dB	36.0 dB	39.7 dB	36.7 dB	25.0 dB	100 ± 15 Ohm
20 MHz	9.3 dB/100m	45.8 dB	42.8 dB	36.5 dB	33.5 dB	37.7 dB	34.7 dB	25.0 dB	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
31.25 MHz	11.7 dB/100m	42.9 dB	39.9 dB	31.0 dB	28.2 dB	33.9 dB	30.9 dB	23.6 dB	100 ± 15 Ohm
62.5 MHz	17.0 dB/100m	38.4 dB	35.4 dB	22.0 dB	19.0 dB	27.8 dB	24.9 dB	21.5 dB	100 ± 15 Ohm
100 MHz	22.0 dB/100m	35.3 dB	32.3 dB	14.0 dB	10.3 dB	23.8 dB	20.8 dB	20.1 dB	100 ± 15 Ohm
155 MHz	28.1 dB/100m	32.5 dB	29.5 dB	4.4 dB	1.4 dB	19.9 dB	16.9 dB	15.8 dB	100 ± 25 Ohm
200 MHz	32.4 dB/100m	30.8 dB	27.8 dB	4.0 dB	1.0 dB	17.7 dB	14.7 dB	15.0 dB	100 ± 25 Ohm

Voltage:

UL Voltage Rating
300V RMS V

Use

Suitability - Oil Resistance:	No
Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

Safety

C(UL) Flammability:	FT4
CSA Flammability:	FT4
IEEE Flammability:	1202 Vertical Tray Flame Test
UL Flammability:	UL1666 Riser
Suitability - Non-Halogenated:	No

Temperature Range

Installation Temp Range:	0°C To +60 °C
Operating Temp Range:	-20°C To +60°C °C
Storage Temp Range:	-20°C To +75 °C

Standards

Telecommunications Standards:	ANSI/TIA/EIA 568 C.2 Category 5e
MII Order #39 (China RoHS):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

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