METRIC MEASUREMENT VERSION



1583B Multi-Conductor - Category 5e Nonbonded-Pair Cable



For more Information please call

1-800-Belden1



General Description:

CAT5e (200MHz), 4-Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 24 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Ripcord, Fluorescent Pink PVC jacket.

Usage (Overall)

Suitable Applications:

Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs AWG		Stranding	Conductor Material			
4	24	Solid	BC - Bare Copper			

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

Outer Shield

Outer Shield Material:

Outer Shield Material Unshielded

Outer Jacket

Outer Jacket Material:

 Outer Jacket Trade Name
 Outer Jacket Material

 DataBrite®
 PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (mm) 4.826

Outer Jacket Ripcord:

Yes

8

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C		
Bulk Cable Weight:	28.276 Kg/Km		
Max. Recommended Pulling Tension:	155.687 N		

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Min. Bend Radius/Minor Axis:	25.400 mm
Min. Bend/Installation:	48.260 mm

Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC/(UL) Specification: CMR CEC/C(UL) Specification: CMR EU Directive 2011/65/EU (ROHS II): Yes Other Standards: ISO/IEC 11801 ed 2.1 (2008) Class D **EU CE Mark:** Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes **Telecommunications Standards:** Category 5e - TIA 568.C.2 Other Specification: NEMA WC-63.1 Category 5e, UL Verified to Category 5e **Flame Test UL Flame Test: UL1666 Vertical Riser** C(UL) Flame Test: FT4 **CSA Flame Test:** FT4 Suitability Suitability - Indoor: Yes Suitability - Outdoor: No Suitability - Aerial: No Suitability - Burial: No Sunlight Resistance: No Plenum/Non-Plenum Plenum (Y/N): No Non-Plenum Number: 1583A

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m) 49.215

Maximum Capacitance Unbalance (pF/100 m): 330

Nominal Velocity of Propagation:

VP (%) 70

Maximum Delay:

Delay (ns/100 m) 538 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m) 45

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Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m) 9.38

Max. Operating Voltage - UL:

Voltage 300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)	Min. SRL (dB)
1	2.0	65.3	62.3	63.0	60.3	20.0	23
4	4.1	56.3	53.3	51.0	49.2	23.0	23.0
8	5.8	51.8	48.8	46.0	43.0	24.5	24.5
10	6.5	50.3	47.3	43.0	40.8	25.0	25.0
16	8.2	47.3	44.3	39.0	36.0	25.0	25.0
20	9.3	45.8	42.8	36.5	33.5	25.0	25.0
25	10.4	44.3	41.3	33.9	30.9	24.3	24.3
31.25	11.7	42.9	39.9	31.0	28.2	23.6	23.6
62.5	17.0	38.4	35.4	22.0	19.0	21.5	21.5
100	22.0	35.3	32.3	14.0	10.3	20.1	20.1
155	28.1	32.5	29.5	4.4	1.4	15.8	
200	32.0	30.8	27.8	4.0	1.0	15.0	

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	63.8	60.8
4	100 ± 15	100 ± 15	51.7	48.7
8	100 ± 15	100 ± 15	45.7	42.7
10	100 ± 15	100 ± 15	43.8	40.8
16	100 ± 15	100 ± 15	39.7	36.7
20	100 ± 15	100 ± 15	37.7	34.7
25	100 ± 15	100 ± 15	35.8	32.8
31.25	100 ± 15	100 ± 15	33.9	30.9
62.5	100 ± 15	100 ± 15	27.8	24.9
100	100 ± 15	100 ± 15	23.8	20.8
155	100 ± 25	100 ± 15	19.9	16.9
200	100 ± 25	100 ± 15	17.7	14.7

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party verified to ANSI/TIA-568-C.2, Category 5e.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1583B T30U1000	305 MT	9.525 KG	MAGENTA, CORONA		CAT5E 4PR U/UTP CMR BOX
1583B T301000	305 MT	9.525 KG	MAGENTA, CORONA	С	CAT5E 4PR U/UTP CMR REEL

Notes:

C = CRATE REEL PUT-UP.

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