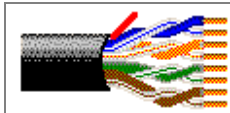


1583A Multi-Conductor - Category 5e Unbonded-Pair Cable



For more Information
please call

1-800-Belden1



Description

24 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, rip cord, PVC jacket

Suitable Applications (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
4.000	24	Solid	BC - Bare Copper

Insulation:
Insulation Material

Ins Material
PO - Polyolefin

Outer Shield:
Outer Shield Material

Outer Shield Material
Unshielded

Outer Jacket:
Outer Jacket Material

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cabling:
Overall Nominal Diameter: 0.189 x 0.000 in.

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):

Bulk Cable Weight: 20 lbs/1000 ft.
 Max. Recommended Pulling Tension: 35 lbs.
 Min. Bend Radius (Install)/Minor Axis: 0.500 in.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:
 NEC/(UL) Specification: CMR
 NEC Articles: 800

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CEC/C(UL) Specification	CMR
IEC Specification	11801 Category 5
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	01/01/2004
TIA/EIA Specification	568-B.2 Category 5e
Other Specification	NEMA WC-63.1 Category 5e, UL verified to Category 5e

Flame Test:

UL Flame Test	UL1666 Riser^UL1685 FT4/IEEE 1202 Vertical Tray Flame Test
CSA Flame Test	FT4

Suitability:

Suitability - Indoor	Yes
Suitability - Outdoor	No
Suitability - Aerial	No
Suitability - Burial	No
Sunlight Resistance	No
Oil Resistance	No
Non-halogenated	No

Plenum/Non-Plenum:

Plenum (Y/N)	No
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Electrical Characteristics (Overall):

Nom. Mutual Capacitance

Capacitance (pF/ft)
15.000

Nominal Velocity of Propagation

VP (%)
70

Maximum Capacitance Unbalance (pF/100 m) 330

Maximum Delay

Delay (ns/100 m)
538 @ 100MHz

Max. Delay Skew

Delay Skew (ns/100 m)
45

Maximum Conductor DC Resistance

DCR @ 20°C (Ohm/100 m)
9.380

Max. Operating Voltage - UL

Voltage
300 V RMS

Maximum DCR Unbalanced

DCR Unbalance @ 20°C (%)
3.000

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)
1	2.000	65.300	62.300	63.000	60.300	20.000
4	4.100	56.300	53.300	51.000	49.200	23.000

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8	5.800	51.800	48.800	46.000	43.000	24.500
10	6.500	50.300	47.300	43.000	40.800	25.000
16	8.200	47.300	44.300	39.000	36.000	25.000
20	9.300	45.800	42.800	36.500	33.500	25.000
25	10.400	44.300	41.300	33.900	30.900	24.300
31.250	11.700	42.900	39.900	31.000	28.200	23.600
62.500	17.000	38.400	35.400	22.000	19.000	21.500
100	22.000	35.300	32.300	14.000	10.300	20.100
155	28.100	32.500	29.500	4.400	1.400	15.800
200	32.400	30.800	27.800	4.000	1.000	15.000

Premise Cable Electrical Table 2

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	63.800	60.800
4	100 ± 15	51.700	48.700
8	100 ± 15	45.700	42.700
10	100 ± 15	43.800	40.800
16	100 ± 15	39.700	36.700
20	100 ± 15	37.700	34.700
25	100 ± 15	35.800	32.800
31.250	100 ± 15	33.900	30.900
62.500	100 ± 15	27.800	24.900
100	100 ± 15	23.800	20.800
155	100 ± 25	19.900	16.900
200	100 ± 25	17.700	14.700

Notes (Overall):

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

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1583A 0021000	1,000 FT	21.000 LB	RED	C	4 PR #24 PO PVC RED
1583A 002U1000	1,000 FT	21.000 LB	RED		4 PR #24 PO PVC RED
1583A 0031000	1,000 FT	21.000 LB	ORANGE	C	4 PR #24 PO PVC ORG
1583A 003U1000	1,000 FT	21.000 LB	ORANGE		4 PR #24 PO PVC ORG
1583A 0041000	1,000 FT	19.000 LB	YELLOW	C	4 PR #24 PO PVC YEL
1583A 004U1000	1,000 FT	21.000 LB	YELLOW		4 PR #24 PO PVC YEL
1583A 0051000	1,000 FT	19.000 LB	GREEN, DARK	C	4 PR #24 PO PVC GRNDK
1583A 005U1000	1,000 FT	20.000 LB	GREEN, DARK		4 PR #24 PO PVC GRNDK
1583A 0061000	1,000 FT	19.000 LB	BLUE, LIGHT	C	4 PR #24 PO PVC BLULT
1583A 0061640	1,640 FT	34.440 LB	BLUE, LIGHT		4 PR #24 PO PVC BLULT
1583A 0061643	1,640 FT	34.440 LB	BLUE, LIGHT		4 PR #24 PO PVC BLULT
1583A 0063000	3,000 FT	60.000 LB	BLUE, LIGHT	C	4 PR #24 PO PVC BLULT
1583A 006U1000	1,000 FT	21.000 LB	BLUE, LIGHT		4 PR #24 PO PVC BLULT
1583A 0081000	1,000 FT	21.000 LB	GRAY	C	4 PR #24 PO PVC GRY
1583A 0081640	1,640 FT	34.440 LB	GRAY	C	4 PR #24 PO PVC GRY
1583A 0081643	1,640 FT	34.440 LB	GRAY		4 PR #24 PO PVC GRY
1583A 0083000	3,000 FT	60.000 LB	GRAY	C	4 PR #24 PO PVC GRY
1583A 008U1000	1,000 FT	20.000 LB	GRAY		4 PR #24 PO PVC GRY
1583A 0091000	1,000 FT	19.000 LB	WHITE	C	4 PR #24 PO PVC WHT

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1583A 0093000	3,000 FT	60.000 LB	WHITE	C	4 PR #24 PO PVC WHT
1583A 009U1000	1,000 FT	21.000 LB	WHITE		4 PR #24 PO PVC WHT
1583A 0101000	1,000 FT	21.000 LB	BLACK	C	4 PR #24 PO PVC BLK
1583A 010U1000	1,000 FT	21.000 LB	BLACK		4 PR #24 PO PVC BLK
1583A 0121000	1,000 FT	21.000 LB	PINK	C	4 PR #24 PO PVC PNK
1583A 012U1000	1,000 FT	21.000 LB	PINK		4 PR #24 PO PVC PNK

Notes:

C = CRATE REEL PUT-UP.

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