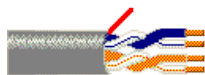


## 1588A Multi-Conductor - Category 5e Nonbonded-Pair Cable



For more Information  
please call

1-800-Belden1



### General Description:

CAT5e (200MHz), 2-Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 24 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Ripcord, 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
2	24	Solid	BC - Bare Copper

**Total Number of Conductors:** 4

#### Insulation

Insulation Material:

Insulation 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 Diameter:

Nom. Dia. (in.)
0.183

**Outer Jacket Ripcord:** Yes

#### Pair

Pair Color Code Chart:

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange

### Mechanical Characteristics (Overall)

<b>Storage Temperature Range:</b>	-20°C To +75°C
<b>Installation Temperature Range:</b>	0°C To +60°C
<b>Operating Temperature Range:</b>	-20°C To +75°C
<b>Bulk Cable Weight:</b>	15 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	13 lbs.
<b>Min. Bend Radius/Minor Axis:</b>	1 in.
<b>Min. Bend/Installation:</b>	1.800 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMR
<b>CEC/(UL) Specification:</b>	CMR
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes

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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:	UL 1666 Vertical Riser
C(UL) Flame Test:	FT4
IEEE Flame Test:	1202

### Suitability

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

### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1590A

## Electrical Characteristics (Overall)

### Nom. Mutual Capacitance:

Capacitance (pF/ft)

15

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

### 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 (%)

5

## 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	23.0
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

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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
1588A F6HU1000	1,000 FT	15,000 LB	GRAY, DARK PEARL		CAT5E 2PR U/UTP CMR BOX
1588A F6H1000	1,000 FT	15,000 LB	GRAY, DARK PEARL	C	CAT5E 2PR U/UTP CMR REEL
1588A F6H1640	1,640 FT	24,600 LB	GRAY, DARK PEARL		CAT5E 2PR U/UTP CMR REEL
1588A 006U1000	1,000 FT	15,000 LB	BLUE, LIGHT		CAT5E 2PR U/UTP CMR BOX
1588A 0061000	1,000 FT	15,000 LB	BLUE, LIGHT	C	CAT5E 2PR U/UTP CMR REEL

**Notes:**

C = CRATE REEL PUT-UP.

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