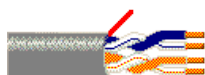


## 1588A Multi-Conductor - Category 5e Nonbonded-Pair Cable



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)**

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

**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 |

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

|                                       |                                                      |
|---------------------------------------|------------------------------------------------------|
| 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                   |
| 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          |

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

|       |      |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|------|
| 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 006I1000 | 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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