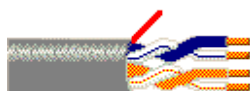


## 1588A Multi-Conductor - Category 5e Nonbonded-Pair Cable



For more Information  
please call

1-800-Belden1

**Description:**

24 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Twisted Pairs, Rip Cord, PVC Jacket (Light Gray or Blue).

**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   |

**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

**Overall Cable****Overall Nominal Diameter:**

0.183 in.

**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.

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

|                                        |           |
|----------------------------------------|-----------|
| Max. Recommended Pulling Tension:      | 13 lbs.   |
| Min. Bend Radius (Install)/Minor Axis: | 0.750 in. |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                       |                                                      |
|---------------------------------------|------------------------------------------------------|
| NEC/(UL) Specification:               | CMR                                                  |
| CEC/C(UL) Specification:              | CMR                                                  |
| 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)

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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          |
| 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.

## Related Documents:

No related documents are available for this product

## 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.

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

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