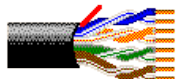


## 1585A Multi-Conductor - Category 5e Nonbonded-Pair Cable



For more Information  
please call

1-800-Belden1



### General Description:

CAT5e (200MHz), 4-Pair, U/UTP-Unshielded, Plenum-CMP, Premise Horizontal Cable, 24 AWG Solid Bare Copper Conductors, Dual FRPO/FEP Insulation, Rip Cord, Flamarrest® Jacket.

### Usage (Overall)

**Suitable Applications:** Horizontal, 1000BaseT, Gigabit Ethernet, 100BaseTX, Fast Ethernet, 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:** 8

#### Insulation

Insulation Material:

| Insulation Material  |
|--|
| FRPO/FEP - Flame Retardant Polyolefin/Fluorinated Ethylene Propylene |

#### Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material                 |
|-------------------------|---------------------------------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride |

Outer Jacket Diameter:

| Nom. Dia. (in.) |
|-----------------|
| 0.190           |

**Outer Jacket Ripcord:** Yes

#### 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)

|  |                 |
|--|-----------------|
| <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 +60°C  |
| <b>Bulk Cable Weight:</b>                | 20 lbs/1000 ft. |
| <b>Max. Recommended Pulling Tension:</b> | 35 lbs.         |
| <b>Min. Bend Radius/Minor Axis:</b>      | 0.800 in.       |
| <b>Min. Bend/Installation:</b>           | 1.900 in.       |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                |     |
|--------------------------------|-----|
| <b>NEC/(UL) Specification:</b> | CMP |
| <b>NEC Articles:</b>           | 800 |

## 1585A Multi-Conductor - Category 5e Nonbonded-Pair Cable

|                                       |  |
|---------------------------------------|--|
| CEC/C(UL) Specification:              | CMP  |
| 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 |

**Applicable Patents:**

|                  |
|------------------|
| Country          |
| www.belden.com/p |

**Flame Test**

|                   |   |
|-------------------|---|
| UL Flame Test:    | NFPA 262 Plenum Flame Test (UL910)(FT6) |
| C(UL) Flame Test: | FT6                                     |
| CSA Flame Test:   | FT6                                     |

**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):      | Yes   |
| Non-Plenum Number: | 1583A |

**Electrical Characteristics (Overall)**

**Nom. Mutual Capacitance:**

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 15                  |

Maximum Capacitance Unbalance (pF/100 m): 330

**Nominal Velocity of Propagation:**

|        |
|--------|
| VP (%) |
| 72     |

**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 (%) |
|--------------------------|

## 1585A Multi-Conductor - Category 5e Nonbonded-Pair Cable

3

### 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. Values above 100 MHz are for engineering purposes only.

### Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color       | Notes | Item Desc                |
|----------------|----------|-------------|-------------|-------|--------------------------|
| 1585A D15U1000 | 1,000 FT | 23.000 LB   | BLUE        |       | CAT5E 4PR U/UTP CMP BOX  |
| 1585A D15I1000 | 1,000 FT | 23.000 LB   | BLUE        | C     | CAT5E 4PR U/UTP CMP REEL |
| 1585A D153000  | 3,000 FT | 66.000 LB   | BLUE        | C     | CAT5E 4PR U/UTP CMP REEL |
| 1585A 002U1000 | 1,000 FT | 23.000 LB   | RED         |       | CAT5E 4PR U/UTP CMP BOX  |
| 1585A 002I1000 | 1,000 FT | 23.000 LB   | RED         | C     | CAT5E 4PR U/UTP CMP REEL |
| 1585A 003U1000 | 1,000 FT | 23.000 LB   | ORANGE      |       | CAT5E 4PR U/UTP CMP BOX  |
| 1585A 003I1000 | 1,000 FT | 23.000 LB   | ORANGE      | C     | CAT5E 4PR U/UTP CMP REEL |
| 1585A 004U1000 | 1,000 FT | 23.000 LB   | YELLOW      |       | CAT5E 4PR U/UTP CMP BOX  |
| 1585A 004I1000 | 1,000 FT | 23.000 LB   | YELLOW      | C     | CAT5E 4PR U/UTP CMP REEL |
| 1585A 005U1000 | 1,000 FT | 23.000 LB   | GREEN, DARK |       | CAT5E 4PR U/UTP CMP BOX  |
| 1585A 005I1000 | 1,000 FT | 23.000 LB   | GREEN, DARK | C     | CAT5E 4PR U/UTP CMP REEL |
| 1585A 008U1000 | 1,000 FT | 23.000 LB   | GRAY        |       | CAT5E 4PR U/UTP CMP BOX  |
| 1585A 008I1000 | 1,000 FT | 23.000 LB   | GRAY        | C     | CAT5E 4PR U/UTP CMP REEL |
| 1585A 009U1000 | 1,000 FT | 23.000 LB   | WHITE       |       | CAT5E 4PR U/UTP CMP BOX  |
| 1585A 009I1000 | 1,000 FT | 23.000 LB   | WHITE       | C     | CAT5E 4PR U/UTP CMP REEL |
| 1585A 010U1000 | 1,000 FT | 23.000 LB   | BLACK       |       | CAT5E 4PR U/UTP CMP BOX  |
| 1585A 010I1000 | 1,000 FT | 23.000 LB   | BLACK       | C     | CAT5E 4PR U/UTP CMP REEL |
| 1585A 010500   | 500 FT   | 10.500 LB   | BLACK       |       | CAT5E 4PR U/UTP CMP REEL |
| 1585A 012U1000 | 1,000 FT | 23.000 LB   | PINK        |       | CAT5E 4PR U/UTP CMP BOX  |
| 1585A 012I1000 | 1,000 FT | 23.000 LB   | PINK        | C     | CAT5E 4PR U/UTP CMP REEL |
| 1585A 877U1000 | 1,000 FT | 23.000 LB   | NATURAL     |       | CAT5E 4PR U/UTP CMP BOX  |
| 1585A 877I1000 | 1,000 FT | 23.000 LB   | NATURAL     | C     | CAT5E 4PR U/UTP CMP REEL |

**Notes:**

C = CRATE REEL PUT-UP.

## 1585A Multi-Conductor - Category 5e Nonbonded-Pair Cable

Revision Number: 6    Revision Date: 02-28-2014

© 2015 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.  
Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.  
All sales of Belden products are subject to Belden's standard terms and conditions of sale.  
Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.  
Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.