

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



For more Information  
please call

1-800-Belden1



### Description:

24 AWG Solid Bare Copper Conductors, Dual FRPO/FEP Insulation, Twisted pairs, Rip Cord, Flammarrest® Jacket.

### Usage (Overall)

**Suitable Applications:** Horizontal 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       | 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                 |
|-------------------------|---------------------------------------|
| Flammarrest®            | 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)

**Storage Temperature Range:** -20°C To +75°C

**Installation Temperature Range:** 0°C To +60°C

**Operating Temperature Range:** -20°C To +60°C

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

|  |                 |
|--|-----------------|
| <b>Bulk Cable Weight:</b>                | 20 lbs/1000 ft. |
| <b>Max. Recommended Pulling Tension:</b> | 35 lbs.         |
| <b>Min. Bend Radius/Minor Axis:</b>      | 1 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  |
| <b>CEC/C(UL) Specification:</b>              | CMP  |
| <b>Other Standards:</b>                      | ISO/IEC 11801 ed 2.1 (2008) Class D                  |
| <b>EU CE Mark:</b>                           | Yes  |
| <b>EU Directive 2000/53/EC (ELV):</b>        | Yes  |
| <b>EU Directive 2002/95/EC (RoHS):</b>       | Yes  |
| <b>EU RoHS Compliance Date (mm/dd/yyyy):</b> | 01/01/2004   |
| <b>EU Directive 2002/96/EC (WEEE):</b>       | Yes  |
| <b>EU Directive 2003/11/EC (BFR):</b>        | Yes  |
| <b>CA Prop 65 (CJ for Wire &amp; Cable):</b> | Yes  |
| <b>MII Order #39 (China RoHS):</b>           | Yes  |
| <b>Telecommunications Standards:</b>         | Category 5e - TIA 568.C.2                            |
| <b>Other Specification:</b>                  | NEMA WC-63.1 Category 5e, UL Verified to Category 5e |

#### Applicable Patents:

| Country | Patent  |
|---------|---------|
| US      | 5563377 |
| CANADA  | 2144694 |

#### Flame Test

|                          |   |
|--------------------------|---|
| <b>UL Flame Test:</b>    | NFPA 262 Plenum Flame Test (UL910)(FT6) |
| <b>C(UL) Flame Test:</b> | FT6                                     |
| <b>CSA Flame Test:</b>   | FT6                                     |

#### Suitability

|                               |     |
|-------------------------------|-----|
| <b>Suitability - Indoor:</b>  | Yes |
| <b>Suitability - Outdoor:</b> | No  |
| <b>Suitability - Aerial:</b>  | No  |
| <b>Suitability - Burial:</b>  | No  |
| <b>Sunlight Resistance:</b>   | No  |
| <b>Oil Resistance:</b>        | No  |
| <b>Non-halogenated:</b>       | No  |

#### Plenum/Non-Plenum

|                           |       |
|---------------------------|-------|
| <b>Plenum (Y/N):</b>      | Yes   |
| <b>Non-Plenum Number:</b> | 1583A |

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

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

|  |     |
|--|-----|
| <b>Maximum Capacitance Unbalance (pF/100 m):</b> | 330 |
|--|-----|

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

### Nominal Velocity of Propagation:

|               |
|---------------|
| <b>VP (%)</b> |
| 72            |

### Maximum Delay:

|                         |
|-------------------------|
| <b>Delay (ns/100 m)</b> |
| 538 @ 100MHz            |

### Max. Delay Skew:

|                              |
|------------------------------|
| <b>Delay Skew (ns/100 m)</b> |
| 45                           |

### Maximum Conductor DC Resistance:

|                               |
|-------------------------------|
| <b>DCR @ 20°C (Ohm/100 m)</b> |
| 9.38                          |

### Max. Operating Voltage - UL:

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

### Maximum DCR Unbalanced:

|                                 |
|---------------------------------|
| <b>DCR Unbalance @ 20°C (%)</b> |
| 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.

## 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 |

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|                |          |           |             |   |                          |
|----------------|----------|-----------|-------------|---|--------------------------|
| 1585A D151000  | 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 0021000  | 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 0031000  | 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 0041000  | 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 0051000  | 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 0081000  | 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 0091000  | 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 0101000  | 1,000 FT | 23.000 LB | BLACK       | C | CAT5E 4PR U/UTP CMP REEL |
| 1585A 012U1000 | 1,000 FT | 23.000 LB | PINK        |   | CAT5E 4PR U/UTP CMP BOX  |
| 1585A 0121000  | 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 8771000  | 1,000 FT | 23.000 LB | NATURAL     | C | CAT5E 4PR U/UTP CMP REEL |

**Notes:**

C = CRATE REEL PUT-UP.

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