

## 1351A Multi-Conductor - Category 6 Nonbonded-Pair ScTP Cable



For more Information  
please call

1-800-Belden1

**General Description:**

CAT6 (350MHz), 4-Pair, F/UTP-Foil Shielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Polyester Separator, Overall Beldfoil Shield, PVC Jacket

**Usage (Overall)****Suitable Applications:**

Networking Horizontal Cable, 1000Base-T (Gigabit Ethernet), 100Base-T (Fast Ethernet), 10Base-T (Ethernet), 100BaseVG, ANYLAN, 155ATM, 622ATM, ANSI.X3.263 FDDI TP-PMD, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, Noisy Environments, 250 MHz Category 6

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4       | 23  | Solid     | BC - Bare Copper   |

**Insulation****Insulation Material:**

| Insulation Material |
|---------------------|
| PO - Polyolefin     |

**Outer Shield****Outer Shield Material:**

| Outer Shield Trade Name | Type | Outer Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100.000      |

**Outer Shield Drain Wire AWG:**

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24  | Solid     | TC - Tinned Copper            |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Outer Jacket Diameter:**

| Nom. Dia. (in.) |
|-----------------|
| 0.290           |

**Outer Jacket Ripcord:**

Yes

**Overall Cable****Overall Cabling Fillers:**

Patented Central Cross Web

**Overall Cabling Separator Material:**

Polyester

**Pair****Pair Color Code Chart:**

| Number | Color                          |
|--------|--------------------------------|
| 1      | White/Blue Stripe and Blue     |
| 2      | White/Orange Stripe and Orange |
| 3      | White/Green Stripe and Green   |
| 4      | White/Brown Stripe and 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 +75°C

**Bulk Cable Weight:** 44 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 25 lbs.

**Min. Bend Radius/Minor Axis:** 3 in.

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|                         |       |
|-------------------------|-------|
| Min. Bend/Installation: | 3 in. |
|-------------------------|-------|

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| NEC(UL) Specification:                | CMR, UL444                          |
| CEC/C(UL) Specification:              | CMR                                 |
| EU Directive 2011/65/EU (ROHS II):    | Yes                                 |
| Other Standards:                      | ISO/IEC 11801 ed 2.1 (2008) Class E |
| 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): | 05/24/2007                          |
| 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 6 - TIA 568.C.2            |

## Applicable Patents:

## Country

www.belden.com/p

## Flame Test

|                   |                       |
|-------------------|-----------------------|
| UL Flame Test:    | UL1666 Vertical Riser |
| C(UL) Flame Test: | FT4                   |
| CSA Flame Test:   | FT4                   |

## Plenum/Non-Plenum

|                |       |
|----------------|-------|
| Plenum (Y/N):  | No    |
| Plenum Number: | 1352A |

## Electrical Characteristics (Overall)

## Nom. Mutual Capacitance:

## Capacitance (pF/ft)

14.000

## Maximum Capacitance Unbalance:

## Capacitance (pF/ft)

66.000

## Nominal Velocity of Propagation:

## VP (%)

68.000

## Maximum Delay:

## Description Delay (ns/100 m)

@ 100 MHz 537.000

## Max. Delay Skew:

## Delay Skew (ns/100 m)

30.000

## Maximum Conductor DC Resistance:

## DCR @ 20°C (Ohm/100 m)

8.200

## Max. Operating Voltage - UL:

## Voltage

300 V RMS

## Maximum DCR Unbalanced:

## DCR Unbalance @ 20°C (%)

3.000

## 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) |
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|

## 1351A Multi-Conductor - Category 6 Nonbonded-Pair ScTP Cable

|       |        |      |      |      |      |        |
|-------|--------|------|------|------|------|--------|
| 1     | 2.000  | 74.3 | 72.3 | 72.3 | 70.3 | 20.000 |
| 4     | 3.800  | 65.3 | 63.3 | 61.5 | 59.5 | 23.000 |
| 8     | 5.300  | 60.8 | 58.8 | 55.5 | 53.5 | 24.500 |
| 10    | 6.000  | 59.3 | 57.3 | 53.3 | 51.3 | 25.000 |
| 16    | 7.600  | 56.2 | 54.3 | 48.6 | 46.6 | 25.000 |
| 20    | 8.500  | 54.8 | 52.8 | 46.3 | 44.3 | 25.000 |
| 25    | 9.500  | 53.3 | 51.3 | 43.8 | 41.8 | 24.300 |
| 31.25 | 10.700 | 51.9 | 49.9 | 41.2 | 39.2 | 23.600 |
| 62.5  | 15.400 | 47.4 | 45.4 | 32.0 | 30.0 | 21.500 |
| 100   | 19.800 | 44.3 | 42.3 | 24.5 | 22.5 | 20.100 |
| 155   | 25.200 | 41.5 | 39.5 | 16.2 | 14.2 | 18.800 |
| 200   | 29.000 | 39.8 | 37.8 | 10.8 | 8.8  | 18.000 |
| 250   | 32.800 | 38.3 | 36.3 | 5.5  | 3.5  | 17.300 |
| 300   | 36.400 | 37.1 | 35.1 | 0.7  |      | 16.800 |
| 350   | 39.800 | 36.1 | 34.1 |      |      | 16.300 |
| 400   | 43.000 | 35.3 | 33.3 |      |      | 16.000 |
| 500   | 48.900 | 33.8 | 31.8 |      |      | 15.200 |
| 650   | 57.200 | 32.1 | 30.1 |      |      | 14.400 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-------------|------------------------------|------------------|------------------|--------------------|
| 1           | 100 ± 15                     | 100 ± 15         | 70.0             | 68.0               |
| 4           | 100 ± 15                     | 100 ± 15         | 58.0             | 56.0               |
| 8           | 100 ± 15                     | 100 ± 15         | 51.9             | 49.9               |
| 10          | 100 ± 15                     | 100 ± 15         | 50.0             | 48.0               |
| 16          | 100 ± 15                     | 100 ± 15         | 45.9             | 43.9               |
| 20          | 100 ± 15                     | 100 ± 15         | 44.0             | 42.0               |
| 25          | 100 ± 15                     | 100 ± 15         | 42.0             | 40.0               |
| 31.25       | 100 ± 15                     | 100 ± 15         | 40.1             | 38.1               |
| 62.5        | 100 ± 15                     | 100 ± 15         | 34.1             | 32.1               |
| 100         | 100 ± 15                     | 100 ± 15         | 30.0             | 28.0               |
| 155         | 100 ± 22                     | 100 ± 15         | 26.2             | 24.2               |
| 200         | 100 ± 22                     | 100 ± 15         | 24.0             | 22.0               |
| 250         | 100 ± 32                     | 100 ± 15         | 22.0             | 20.0               |
| 300         | 100 ± 32                     | 100 ± 15         | 20.5             | 18.5               |
| 350         | 100 ± 32                     | 100 ± 15         | 19.1             | 17.1               |
| 400         |                              |                  | 18.0             | 16.0               |
| 500         |                              |                  | 16.0             | 14.0               |

### Notes (Overall)

**Notes:** Jacket sequentially marked at 2 ft. intervals. Third party Verified to ANSI/TIA-568-C.2, Category 6. Values above 350 MHz are for Engineering Information Only.

### Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color       | Notes | Item Desc               |
|---------------|----------|-------------|-------------|-------|-------------------------|
| 1351A 0041000 | 1,000 FT | 45.000 LB   | YELLOW      | C     | CAT6 4PR F/UTP CMR REEL |
| 1351A 0061000 | 1,000 FT | 45.000 LB   | BLUE, LIGHT | C     | CAT6 4PR F/UTP CMR REEL |
| 1351A 0081000 | 1,000 FT | 45.000 LB   | GRAY        | C     | CAT6 4PR F/UTP CMR REEL |
| 1351A 0091000 | 1,000 FT | 45.000 LB   | WHITE       | C     | CAT6 4PR F/UTP CMR REEL |

**Notes:**

C = CRATE REEL PUT-UP.

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