

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 & 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) |
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|

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