

1874A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable



For more Information
please call

1-800-Belden1



General Description:

CAT6+ (350MHz), 4-Bonded-Pairs, U/UTP-Unshielded, Plenum-CMP, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductor, FEP Insulation, Ripcord, Flamarrest® Jacket

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, Noisy Environments

Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors: 8

Insulation

Insulation Material:

| Insulation Material |
|--------------------------------------|
| FEP - 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.) |
|-----------------|
| 0.365 |
| 0.165 |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 0.365 x 0.165 in.

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)

Operating Temperature Range: -20°C To +80°C

Bulk Cable Weight: 31 lbs/1000 ft.

Max. Recommended Pulling Tension: 45 lbs.

Min. Bend Radius/Minor Axis: 0.500 in.

Min. Bend/Installation: 1.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

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| | |
|---------------------------------------|-------------------------------------|
| CEC/C(UL) Specification: | CMP |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| Other Standards: | ISO/IEC 11801 ed 2.1 (2008) Class E |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 07/01/2006 |
| 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: | NFPA 262 Plenum Flame Test (UL910)(FT6) |
| CSA Flame Test: | FT6 |

Plenum/Non-Plenum

| | |
|--------------------|-------|
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 1872A |

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

| |
|---------------------|
| Capacitance (pF/ft) |
| 15.0 |

| | |
|---|----|
| Maximum Capacitance Unbalance (pF/100 m): | 49 |
|---|----|

Nominal Velocity of Propagation:

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

Maximum Delay:

| |
|------------------|
| Delay (ns/100 m) |
| 510 @ 100MHz |

Max. Delay Skew:

| |
|-----------------------|
| Delay Skew (ns/100 m) |
| 25 |

Maximum Conductor DC Resistance:

| |
|------------------------|
| DCR @ 20°C (Ohm/100 m) |
| 7.500 |

Max. Operating Voltage - UL:

| |
|-----------|
| Voltage |
| 300 V RMS |

Maximum DCR Unbalanced:

| |
|--------------------------|
| DCR Unbalance @ 20°C (%) |
| 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) |
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|
| 1 | 1.900 | 75.3 | 75.3 | 73.4 | 73.4 | 20.000 |
| 4 | 3.700 | 66.3 | 66.3 | 62.6 | 62.6 | 23.000 |
| 8 | 5.300 | 61.8 | 61.8 | 56.5 | 56.5 | 24.500 |
| 10 | 5.900 | 60.3 | 60.3 | 54.4 | 54.4 | 25.000 |
| 16 | 7.500 | 57.2 | 57.2 | 49.7 | 49.7 | 25.000 |
| 20 | 8.400 | 55.8 | 55.8 | 47.3 | 47.3 | 25.000 |
| 25 | 9.500 | 54.3 | 54.3 | 44.9 | 44.9 | 24.300 |
| 31.25 | 10.600 | 52.9 | 52.9 | 42.2 | 42.2 | 23.600 |
| 62.5 | 15.400 | 48.4 | 48.4 | 33.0 | 33.0 | 21.500 |
| 100 | 19.800 | 45.3 | 45.3 | 25.5 | 25.5 | 21.000 |
| 155 | 25.100 | 42.4 | 42.4 | 17.3 | 17.3 | 21.000 |

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| | | | | | | |
|-----|--------|------|------|------|------|--------|
| 200 | 29.000 | 40.8 | 40.8 | 11.8 | 11.8 | 21.000 |
| 250 | 32.800 | 39.3 | 39.3 | 6.5 | 6.5 | 18.000 |
| 300 | 36.400 | 38.1 | 38.1 | 1.7 | 1.7 | 18.000 |
| 350 | 39.800 | 37.1 | 37.1 | -2.6 | -2.6 | 17.000 |
| 400 | 43.000 | 36.3 | 36.3 | | | 14.000 |
| 450 | 46.900 | 35.5 | 35.5 | | | 14.000 |
| 500 | 48.900 | 34.8 | 34.8 | | | 14.000 |
| 550 | 51.800 | 34.2 | 34.2 | | | 14.000 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ACRF (dB) | Min. PSACRF (dB) |
|-------------|------------------------------|------------------|----------------|------------------|
| 1 | 100 ± 12 | 100 ± 15 | 67.8 | 64.8 |
| 4 | 100 ± 12 | 100 ± 15 | 55.7 | 52.8 |
| 8 | 100 ± 12 | 100 ± 15 | 49.7 | 46.7 |
| 10 | 100 ± 12 | 100 ± 15 | 47.8 | 44.8 |
| 16 | 100 ± 12 | 100 ± 8 | 43.7 | 40.7 |
| 20 | 100 ± 12 | 100 ± 8 | 41.8 | 38.8 |
| 25 | 100 ± 15 | 100 ± 8 | 39.8 | 36.8 |
| 31.25 | 100 ± 15 | 100 ± 8 | 37.9 | 34.9 |
| 62.5 | 100 ± 15 | 100 ± 8 | 31.8 | 28.9 |
| 100 | 100 ± 15 | 100 ± 8 | 27.8 | 24.8 |
| 155 | 100 ± 15 | 100 ± 8 | 24.0 | 21.0 |
| 200 | 100 ± 15 | 100 ± 8 | 21.7 | 18.8 |
| 250 | 100 ± 20 | 100 ± 8 | 19.8 | 16.8 |
| 300 | 100 ± 20 | 100 ± 8 | 18.3 | 15.3 |
| 350 | 100 ± 22 | 100 ± 8 | 16.9 | 13.9 |
| 400 | 100 ± 32 | 100 ± 8 | 15.8 | 12.8 |
| 450 | 100 ± 32 | 100 ± 8 | 14.7 | 11.7 |
| 500 | 100 ± 32 | 100 ± 8 | 13.8 | 10.8 |
| 550 | 100 ± 32 | 100 ± 8 | 13.0 | 10.0 |

Notes (Overall)

Notes: Belden IBDN. Jacket sequentially marked at 2 ft. intervals. Values above 350 MHz are information only. Third party verified to ANSI/TIA-568-C.2 Category 6.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|------------------|-------|---------------------------|
| 1874A D15A1000 | 1,000 FT | 39.000 LB | BLUE | | CAT6+ 4PRB U/UTP CMP RIB |
| 1874A D15I1000 | 1,000 FT | 37.000 LB | BLUE | C | CAT6+ 4PRB U/UTP CMP REEL |
| 1874A F6HA1000 | 1,000 FT | 39.000 LB | GRAY, DARK PEARL | | CAT6+ 4PRB U/UTP CMP RIB |
| 1874A F6H1000 | 1,000 FT | 37.000 LB | GRAY, DARK PEARL | C | CAT6+ 4PRB U/UTP CMP REEL |
| 1874A 002A1000 | 1,000 FT | 39.000 LB | RED | | CAT6+ 4PRB U/UTP CMP RIB |
| 1874A 003A1000 | 1,000 FT | 39.000 LB | ORANGE | | CAT6+ 4PRB U/UTP CMP RIB |
| 1874A 004A1000 | 1,000 FT | 39.000 LB | YELLOW | | CAT6+ 4PRB U/UTP CMP RIB |
| 1874A 005A1000 | 1,000 FT | 39.000 LB | GREEN, DARK | | CAT6+ 4PRB U/UTP CMP RIB |
| 1874A 007A1000 | 1,000 FT | 39.000 LB | VIOLET | | CAT6+ 4PRB U/UTP CMP RIB |
| 1874A 007I1000 | 1,000 FT | 37.000 LB | VIOLET | C | CAT6+ 4PRB U/UTP CMP REEL |
| 1874A 009A1000 | 1,000 FT | 39.000 LB | WHITE | | CAT6+ 4PRB U/UTP CMP RIB |
| 1874A 009I1000 | 1,000 FT | 37.000 LB | WHITE | C | CAT6+ 4PRB U/UTP CMP REEL |
| 1874A 010I1000 | 1,000 FT | 37.000 LB | BLACK | C | CAT6+ 4PRB U/UTP CMP REEL |
| 1874A 877A1000 | 1,000 FT | 39.000 LB | NATURAL | | CAT6+ 4PRB U/UTP CMP RIB |
| 1874A 877I1000 | 1,000 FT | 37.000 LB | NATURAL | C | CAT6+ 4PRB U/UTP CMP REEL |

Notes:

C = CRATE REEL PUT-UP.

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JONHON

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