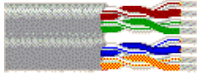


1875GB Multi-Conductor - Enhanced Category 6 Bonded-Pair Patch Cables



For more Information
please call

1-800-Belden1



General Description:

CAT6+ (350MHz), 4-Bonded-Pairs, U/UTP-Unshielded, Riser-CMR, Premise Patch Cable, 24 AWG Bonded Stranded (7x32) Tinned Copper Conductor, Polyolefin Insulation, PVC Jacket

Usage (Overall)

Suitable Applications: Premise Patch 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 | 24 | 7x32 | TC - Tinned Copper, Bonded Strands |

Total Number of Conductors: 8

Insulation

Insulation Material:

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

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

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

Outer Jacket Diameter:

| Nom. Dia. (in.) |
|-----------------|
| 0.365 |
| 0.165 |

Outer Jacket Ripcord: No

Overall Cable

Overall Nominal Diameter: 0.365 x 0.165 in.

Pair

Pair Color Code Chart:

| Number | Color |
|-------------------|------------------------------|
| For T568-B Wiring | White/Brown Stripe & Brown |
| | White/Blue Stripe & Blue |
| | White/Green Stripe & Green |
| | White/Orange Stripe & Orange |

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 29 lbs/1000 ft.

Max. Recommended Pulling Tension: 40 lbs.

Min. Bend Radius/Minor Axis: 0.500 in.

Min. Bend/Installation: 1.600 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

1875GB Multi-Conductor - Enhanced Category 6 Bonded-Pair Patch Cables

| | |
|---------------------------------------|---------------------------------|
| CEC/C(UL) Specification: | CMR |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| 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 6 - TIA 568.C.2 |
| Other Specification: | UL Verified to Category 6 Patch |

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

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)

15.0

| | |
|---|------|
| Maximum Capacitance Unbalance (pF/100 m): | 49.2 |
|---|------|

Nominal Velocity of Propagation:

VP (%)

70

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)

9

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 | 2.0 | 74.3 | 72.3 | 70.3 | 70.3 | 20.0 |
| 4 | 4.1 | 65.3 | 63.3 | 59.2 | 59.2 | 23.0 |
| 8 | 5.8 | 60.3 | 58.8 | 53.0 | 53.0 | 24.5 |
| 10 | 6.5 | 59.3 | 57.3 | 51.0 | 51.0 | 25.0 |
| 16 | 8.2 | 56.3 | 54.3 | 46.0 | 46.0 | 25.0 |
| 20 | 9.3 | 54.8 | 52.8 | 43.5 | 43.5 | 25.0 |
| 25 | 10.4 | 53.4 | 51.4 | 41.0 | 41.0 | 24.3 |
| 31.25 | 11.7 | 51.9 | 49.9 | 38.2 | 38.2 | 23.6 |
| 62.5 | 17.0 | 47.4 | 45.4 | 28.4 | 28.4 | 21.5 |
| 100 | 22.0 | 44.3 | 42.3 | 25 | 25 | 21.0 |

1875GB Multi-Conductor - Enhanced Category 6 Bonded-Pair Patch Cables

| | | | | | | |
|-----|------|------|------|----|----|------|
| 155 | 30.2 | 41.5 | 39.5 | 14 | 14 | 21.0 |
| 200 | 34.8 | 39.8 | 37.8 | 10 | 10 | 21.0 |
| 250 | 39.6 | 38.3 | 36.3 | 3 | 3 | 18.0 |
| 300 | 46.7 | 37.2 | 34.2 | 0 | 0 | 18.0 |
| 310 | 47.6 | 36.9 | 34.9 | | | 18.0 |
| 350 | 51.1 | 36.2 | 34.2 | | | 17.0 |
| 400 | 55.3 | 35.3 | 33.3 | | | 14.0 |
| 500 | 63.3 | 33.8 | 31.8 | | | 14.0 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ELFEXT (dB) | Min. PSELFEXT (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 | 41.7 | 38.7 |
| 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 | 23.9 | 20.9 |
| 200 | 100 ± 15 | 100 ± 8 | 21.7 | 18.8 |
| 250 | 100 ± 20 | 100 ± 8 | 19.8 | 16.8 |
| 300 | 100 ± 20 | 100 ± 8 | 18.2 | 15.2 |
| 310 | 100 ± 20 | 100 ± 8 | 17.9 | 14.9 |
| 350 | 100 ± 22 | 100 ± 8 | 16.9 | 13.9 |
| 400 | 100 ± 32 | 100 ± 8 | 15.7 | 12.7 |
| 500 | 100 ± 32 | 100 ± 8 | 13.8 | 10.8 |

Notes (Overall)

Notes: 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 Patch RJ-45 Compatible

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|-----------------|----------|-------------|------------------|-------|----------------------------|
| 1875GB F2V1000 | 1,000 FT | 31.000 LB | GRAY, DEC | | CAT6+ PATCH U/UTP CMR REEL |
| 1875GB F6H1000 | 1,000 FT | 31.000 LB | GRAY, DARK PEARL | C | CAT6+ PATCH U/UTP CMR REEL |
| 1875GB 0041000 | 1,000 FT | 31.000 LB | YELLOW | C | CAT6+ PATCH U/UTP CMR REEL |
| 1875GB 005A1000 | 1,000 FT | 32.000 LB | GREEN, DARK | | CAT6+ PATCH U/UTP CMR RIB |
| 1875GB 0051000 | 1,000 FT | 31.000 LB | GREEN, DARK | | CAT6+ PATCH U/UTP CMR REEL |
| 1875GB 006A1000 | 1,000 FT | 32.000 LB | BLUE, LIGHT | | CAT6+ PATCH U/UTP CMR RIB |
| 1875GB 0061000 | 1,000 FT | 31.000 LB | BLUE, LIGHT | C | CAT6+ PATCH U/UTP CMR REEL |
| 1875GB 007A1000 | 1,000 FT | 32.000 LB | VIOLET | | CAT6+ PATCH U/UTP CMR RIB |
| 1875GB 0091000 | 1,000 FT | 31.000 LB | WHITE | | CAT6+ PATCH U/UTP CMR REEL |
| 1875GB 0101000 | 1,000 FT | 31.000 LB | BLACK | C | CAT6+ PATCH U/UTP CMR REEL |

Notes:

C = CRATE REEL PUT-UP.

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