

C501109015 Cable Assemblies - CAT5E Modular Cord



For more Information
please call

1-800-Belden1



General Description:

CAT5E Patch Cord, Bonded-Pair, 4 Pair, 24 AWG Solid, CMR, T568A/B-T568A/B, White, 15 ft. (4.6 m).

Usage (Overall)

Suitable Applications: IBDN System 1200, TIA Category 5E, ISO Class D, 1000BASE-T, 100BASE-T
Related Parts: CAT5E Modular Jacks, CAT5E Patch Panels

Multi Conductor

Physical Characteristics

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4 | 24 | Solid | BC - Bare Copper |

Insulation

Insulation Material:

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

Outer Jacket

Outer Jacket Material:

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

Outer Jacket Color Code Chart:

| Color |
|-------|
| White |

Overall Diameter

Overall Nominal Diameter: 0.208 in.
Individual Cable Diameter: 0.240 in.

Physical Characteristics (Connectivity)

Materials

Materials:

| Description | Type | Material |
|------------------|--------|--|
| Plug | RJ45 | Polycarbonate |
| Boot | | Rubber |
| Front Connection | Blades | Phosphor Bronze with 50u inch Gold over Nickel Plating |

Color

Boot Color: Translucent

Wiring Scheme

Wiring Scheme: T568A/B

Weight

Weight: 0.060 lbs.

Packaging

Packaging: Individually packaged in a clear plastic bag.

Mechanical Characteristics (Connectivity)

Plug / Jack Compatibility: RJ45

Termination Interface:

| Termination | Connection | Durabilities |
|-------------|------------------|--------------|
| RJ45 | Mated Connection | 750 Cycles |

Storage Temperature Range: -40°C To +70°C

Installation Temperature Range: -10°C To +60°C

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Operating Temperature Range: -10°C To +60°C

Max. Recommended Pull Tension: 25 lbs.

Min. Bend Radius (Overall Cable): 1.040 in.

Environmental/Mechanical Characteristics:

| Test (Method) | TIA 568-C.3 | Belden |
|---------------------------|-------------------------------------|-------------------------------------|
| Thermal Cycling (FOTP-3) | n/a | -40 to 75°C cycling for 7 days |
| Temperature Life (FOTP-4) | 60°C for 4 days | 85°C for 7 days |
| Humidity (FOTP-5) | 90-95% at 40°C for 4 days | 95% @ 75°C for 7 days |
| Durability (FOTP-21) | 500 cycles | 6 x 200 cycles (3 Elevations) |
| Cable Retention (FOTP-6) | 5.0 kg @ 0 deg., 1.94 kg @90 deg. | 6.8 kg @ 0 deg., 3.4 kg @ 90 deg. |
| Flex (FOTP-1) | 0.5 kg @ 90° to -90° for 100 cycles | 0.9 kg @ 90° to -90° for 100 cycles |
| Twist (FOTP-36) | 1.5 kg for 10 cycles | 1.5 kg for 10 cycles |

Overall Length Tolerances:

| Range | Tolerance | Range | Tolerance | Range | Tolerance |
|-------------------|-------------------|-------------------|-----------------|----------------------------|----------------------------|
| Sx & Dx Patchcord | Sx & Dx Patchcord | MPO Trunk | MPO Trunk | Multi-Fiber Cable Assembly | Multi-Fiber Cable Assembly |
| 0 to 2 meters | +0.2 / -0 meter | 0 to 2 meters | +0.2 / -0 meter | 0 to 2 meters | +0.2 / -0 meter |
| 2.1 to 5.0 meters | +0.3 / -0 meter | 2.1 to 5.0 meters | +0.3 / -0 meter | 2.1 to 5.0 meters | +0.3 / -0 meter |
| 5.1 to 40 meters | +0.4 / -0 meter | 5.1 to 20 meters | +0.4 / -0 meter | 5.1 to 20 meters | +0.4 / -0 meter |
| Over 40.1 meters | + 1.0% / -0% | Over 20.1 meters | + 1.0% / -0% | Over 20.1 meters | + 1.3 / -0 meter |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

UL Rating: Riser

Other Standards: FCC Part 68, Subpart F, IEC 60603-7

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2006

MII Order #39 (China RoHS): EUP 50

Telecommunications Standards: Category 5e - TIA 568.B.2, Category 5 - ISO/IEC 11801:2002 Ed.2

Safety Listing: ACA, Bi-national Standard Listed

Suitability

Suitability - Indoor: Yes

Transmission Characteristics (Connectivity)

Performance Table 1:

| Frequency (MHz) | Max. Insertion Loss TIA* (dB) | Max. Insertion Loss Belden (dB) | Min. PSNEXT TIA* (dB) | Min PSNEXT Belden (dB) | Min. PSACRF TIA* (dB) | Min. PSACRF Belden (dB) |
|-----------------|-------------------------------|---------------------------------|-----------------------|------------------------|-----------------------|-------------------------|
| 1.000 | 2.400 | 2.000 | 62.300 | 65.300 | 60.800 | 60.800 |
| 4.000 | 4.900 | 4.000 | 53.300 | 56.300 | 48.800 | 48.800 |
| 8.000 | 6.900 | 5.700 | 48.800 | 51.800 | 42.700 | 42.700 |
| 10.000 | 7.800 | 6.400 | 47.300 | 50.300 | 40.800 | 40.800 |
| 16.000 | 9.900 | 8.100 | 44.200 | 47.300 | 36.700 | 36.700 |
| 20.000 | 11.100 | 9.200 | 42.800 | 45.800 | 34.800 | 34.800 |
| 25.000 | 12.500 | 10.300 | 41.300 | 44.300 | 32.800 | 32.800 |
| 31.250 | 14.100 | 11.600 | 39.900 | 42.900 | 30.900 | 30.900 |
| 62.500 | 20.400 | 16.800 | 35.400 | 38.400 | 24.900 | 24.900 |
| 100.000 | 26.400 | 21.700 | 32.300 | 35.300 | 20.800 | 20.800 |
| 160.000 | | 28.200 | | 32.300 | | 16.700 |

Performance Table - Footnote:

100 Meter Cable Specifications - * TIA-EIA-568-B.2 Category 5e Standard ----- PSACRF is formally PSELFEXT

Performance Table 2:

| Frequency (MHz) | Min. Return Loss TIA* (dB) | Min. Return Loss Belden (dB) |
|-----------------|----------------------------|------------------------------|
| 1.000 | 20.000 | 20.000 |
| 4.000 | 23.000 | 23.000 |
| 8.000 | 24.500 | 24.500 |
| 10.000 | 25.000 | 25.000 |
| 16.000 | 25.000 | 25.000 |
| 20.000 | 25.000 | 25.000 |
| 25.000 | 24.200 | 25.000 |
| 31.250 | 23.300 | 25.000 |
| 62.500 | 20.700 | 25.000 |

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| | | |
|---------|--------|--------|
| 100.000 | 19.000 | 20.000 |
| 160.000 | | 19.000 |

| | |
|---------------------------------|----------------------------------|
| Dielectric Strength: | 1,000 V RMS @ 60 Hz for 1 minute |
| Current Rating: | 1.500 A |
| Insulation Resistance: | 500 M-Ohm Minimum |
| Max. Contact Resistance: | 20 m-Ohm |

Notes (Overall)

Product Family

Product List:

| Length | Yellow | Green | Blue | Gray | White | Black |
|----------------|------------|------------|------------|------------|------------|------------|
| 2 ft. (0.6 m) | C501104002 | C501105002 | C501106002 | C501108002 | C501109002 | C501100002 |
| 4 ft. (1.2 m) | C501104004 | C501105004 | C501106004 | C501108004 | C501109004 | C501100004 |
| 7 ft. (2.1 m) | C501104007 | C501105007 | C501106007 | C501108007 | C501109007 | C501100007 |
| 10 ft. (3.0 m) | C501104010 | C501105010 | C501106010 | C501108010 | C501109010 | C501100010 |
| 15 ft. (4.6 m) | C501104015 | C501105015 | C501106015 | C501108015 | C501109015 | C501100015 |
| 25 ft. (7.6 m) | C501104025 | C501105025 | C501106025 | C501108025 | C501109025 | C501100025 |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|------------|-------|-------------|-------|-------|-------------------------------|
| C501109015 | 1 EA | 0.365 LB | WHITE | | PATCHCORD BCAT5E CMR WHI 15FT |

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