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1-800-Belden1



### General Description:

CAT5E Patch Cord, Bonded-Pair, 4 Pair, 24 AWG Solid, CMR, T568A/B-T568A/B

### 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 |

##### Overall Diameter

Overall Nominal Diameter: 0.208 in.

### Physical Characteristics (Connectivity)

#### Materials

Materials:

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

#### Color

Boot Color: Translucent

#### Wiring Scheme

Wiring Scheme: T568A/B

#### 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

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

Max. Recommended Pull Tension: 11.250 lbs.

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

### Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

## C501100000 Cable Assemblies - CAT5E Modular Cord

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| 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                          |
| MIL Order #39 (China RoHS):           | EUP 50                              |
| Telecommunications Standards:         | Category 5e - TIA 568.C.2           |
| Safety Listing:                       | 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-C.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                       |
| 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                         |

### Electrical Characteristics (Overall)

#### Labeling

|           |   |
|-----------|---|
| Labeling: | Belden Part Number, Performance Acronym, Wiring Scheme and Cord Length. |
|-----------|---|

#### Notes (Overall)

**Notes:** C501100000 is subdivided as following C5-01-1-00-000 C5 stands for performance, 01 stands for cable type, 1 stands for termination type, 00 stands for color, 000 stands for length Use last 3 digits of the code to specify length in feet - 001-015 ft in increments of 1 ft than 20 ft or 25 ft. xxx stands for special required length.

#### 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 |

## C501100000 Cable Assemblies - CAT5E Modular Cord

|                |            |            |            |            |            |            |
|----------------|------------|------------|------------|------------|------------|------------|
| 25 ft. (7.6 m) | C501104025 | C501105025 | C501106025 | C501108025 | C501109025 | C501100025 |
|----------------|------------|------------|------------|------------|------------|------------|

### Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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