

## C6D110000 Cable Assemblies - CAT6 Performance Modular Cord



For more Information  
please call

1-800-Belden1



### General Description:

CAT6 Performance Patch Cord UTP, 4 Pair, 28 AWG Stranded, CMR, T568A/B-T568A/B, (See Product Family List for colors & lengths)

### Usage (Overall)

**Suitable Applications:** TIA Category 6, ISO Class E, 1000BASE-T, Support Power over Ethernet (up to 100W), Cisco UPOE (up to 60W) and Power over HDBase-T (up to 100W)

**Related Parts:** CAT6+ Modular Jacks, CAT6+ RJ45 Couplers, CAT6+ Patch Panels

### Multi Conductor

#### Physical Characteristics

##### Conductor

###### AWG:

# Pairs	AWG	Stranding	Conductor Material
4	28	Stranded	Tinned Copper

##### Insulation

###### Insulation Material:

Insulation Material
PE - Polyethylene

##### Outer Jacket

###### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

##### Overall Diameter

**Overall Nominal Diameter:** 3.810 mm

### Cable Characteristics (Connectivity)

#### Outer Jacket

##### Outer Jacket Color Code Chart:

Color
See Product Family

## Physical Characteristics (Connectivity)

### Materials

#### Materials:

Description	Type	Material
Plug	RJ45	Polycarbonate - UL94V-0
Boot		Polycarbonate - UL94V-0
Front Connection	Blades	Phosphor Bronze with 50u inch Gold over Nickel Plating

### Color

**Boot Color:** Translucent

### Wiring Scheme

**Wiring Scheme:** T568A/B-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 +75°C

**Installation Temperature Range:** 0°C To +60°C

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

**Max. Recommended Pull Tension:** 50.042 N

**Min. Bend Radius (Overall Cable):** 14.732 mm

## 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:** ISO/IEC 11801:2002 Ed.2, TIA 568.2-D

**Safety Listing:** c(UL)us Listed

**Other Specification:** CEC/C(UL) Voltage Rating: 300 V RMS

### 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	3.800	72.300	72.300	64.800	64.800
4.000	4.500	7.200	63.300	63.300	52.800	52.700
8.000	6.400	10.100	58.800	58.800	46.700	46.700
10.000	7.100	11.300	57.300	57.300	44.800	44.800
16.000	9.100	14.400	54.200	54.300	40.700	40.700
20.000	10.200	16.100	52.800	52.800	38.800	38.700
25.000	11.400	18.100	51.300	51.300	36.800	36.800

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31.250	12.800	20.300	49.900	49.900	34.900	34.900
62.500	18.500	29.200	45.400	45.400	28.900	28.800
100.000	23.800	37.600	42.300	42.300	24.800	24.800
200.000	34.800	55.100	37.800	37.800	18.800	18.700
250.000	39.400	62.400	36.300	36.300	16.800	16.800

**Performance Table - Footnote:** 100 Meter Cable Specifications - \* TIA-EIA-568.2-D Category 6 Standard  
----- PSACRF is formally PSELFEXT

**Performance Table 2:**

Frequency (MHz)	Min. Return Loss TIA* (dB)	Min. Return Loss Belden (dB)	Min. Balanced TCL TIA* (dB)	Min. Balanced TCL Belden (dB)
1.000	20.000	20.000	40.000	40.000
4.000	23.000	23.000	40.000	40.000
8.000	24.500	24.500	40.000	40.000
10.000	25.000	25.000	40.000	40.000
16.000	25.000	25.000	38.000	38.000
20.000	25.000	25.000	37.000	37.000
25.000	24.200	24.300	36.000	36.000
31.250	23.300	23.600	35.100	35.100
62.500	20.700	21.500	32.000	32.000
100.000	19.000	20.100	30.000	30.000
200.000	16.400	18.000	27.000	27.000
250.000	15.600	17.300	26.000	26.000

**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:** Labeling: Belden Part Number and Cord Length.

#### Notes (Overall)

- Notes:**
- C6D1100000 is subdivided as following C6-D1-1-00-000  
C6 stands for performance, D1 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.
  - 28 AWG stranded conductors are not TIA-568 compliant. However, using maximum 6.3 meters of cordage connected to a 90 meters permanent link will meet all TIA channel requirements.

- Notes (Cont'd.):**
- Cable weight: 0.012 Lbs/ft.
  - [www.belden.com/p](http://www.belden.com/p)

### Product Family

#### Product List:

Length	Black	Red	Yellow	Green	Blue	Gray	White
2 ft. (0.6 m)	C6D1100002	C6D1102002	C6D1104002	C6D1105002	C6D1106002	C6D1108002	C6D1109002
3 ft. (0.9 m)	C6D1100003	C6D1102003	C6D1104003	C6D1105003	C6D1106003	C6D1108003	C6D1109003
4 ft. (1.2 m)	C6D1100004	C6D1102004	C6D1104004	C6D1105004	C6D1106004	C6D1108004	C6D1109004
5 ft. (1.5 m)	C6D1100005	C6D1102005	C6D1104005	C6D1105005	C6D1106005	C6D1108005	C6D1109005
6 ft. (1.8 m)	C6D1100006	C6D1102006	C6D1104006	C6D1105006	C6D1106006	C6D1108006	C6D1109006
7 ft. (2.1 m)	C6D1100007	C6D1102007	C6D1104007	C6D1105007	C6D1106007	C6D1108007	C6D1109007
8 ft. (2.4 m)	C6D1100008	C6D1102008	C6D1104008	C6D1105008	C6D1106008	C6D1108008	C6D1109008
9 ft. (2.7 m)	C6D1100009	C6D1102009	C6D1104009	C6D1105009	C6D1106009	C6D1108009	C6D1109009
10 ft. (3.0 m)	C6D1100010	C6D1102010	C6D1104010	C6D1105010	C6D1106010	C6D1108010	C6D1109010
12 ft. (3.6 m)	C6D1100012	C6D1102012	C6D1104012	C6D1105012	C6D1106012	C6D1108012	C6D1109012
15 ft. (4.6 m)	C6D1100015	C6D1102015	C6D1104015	C6D1105015	C6D1106015	C6D1108015	C6D1109015
25 ft. (7.6 m)	C6D1100025	C6D1102025	C6D1104025	C6D1105025	C6D1106025	C6D1108025	C6D1109025

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### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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