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1-800-Belden1



### General Description:

CAT6A 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 6A, ISO Class EA, 10GBASE-T

**Related Parts:** 10GX Modular Jacks, 10GX RJ45 Couplers, 10GX Patch Panels

### Multi Conductor

#### Physical Characteristics

##### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material
4	28	Stranded	Tinned Copper

##### Insulation

**Insulation Material:**

Insulation Material
High Density Polyethylene

##### Outer Shield

**Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material
Floating Screen	Foil	AL - Aluminum

##### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

##### Overall Diameter

**Overall Nominal Diameter:** 4.724 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): 18.898 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 Amendment 2

Safety Listing: c(UL)us 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	2.500	4.000	72.300	72.300	64.800	64.800
4.000	4.600	7.200	63.300	63.300	52.800	52.800

## CAD1100000 Cable Assemblies - CAT6A Performance Modular Cord

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	9.000	14.200	54.200	54.200	40.700	40.700
20.000	10.100	15.900	52.800	52.800	38.800	38.800
25.000	11.300	17.800	51.300	51.300	36.800	36.800
31.250	12.600	20.000	49.900	49.900	34.900	34.900
62.500	18.000	28.500	45.400	45.400	28.900	28.900
100.000	22.900	36.400	42.300	42.300	24.800	24.800
200.000	33.100	52.400	37.800	37.800	18.800	18.800
250.000	37.300	59.000	36.300	36.300	16.800	16.800
300.000	41.200	65.100	35.100	35.100	15.300	15.300
400.000	48.100	76.100	33.300	33.300	12.800	12.800
500.000	54.400	86.000	31.800	31.800	10.800	10.800

**Performance Table - Footnote:** 100 Meter Cable Specifications - \* TIA/EIA-568-C.2-2009 Category 6A Standard

### Performance Table 2:

Frequency (MHz)	Min. Return Loss TIA* (dB)	Min. Return Loss Belden (dB)	Min. PSANEXT TIA* (dB)	Min. PSANEXT Belden (dB)	Min. PSAACR-F TIA* (dB)	Min. PSAACR-F Belden (dB)	Min. Balanced TCL TIA* (dB)	Min. Balanced TCL Belden (dB)
1.000	20.000	20.000	67.000	67.000	67.000	67.000	40.000	40.000
4.000	23.000	23.000	67.000	67.000	66.200	66.200	40.000	40.000
8.000	24.500	24.500	67.000	67.000	60.100	60.100	40.000	40.000
10.000	25.000	25.000	67.000	67.000	58.200	58.200	40.000	40.000
16.000	25.000	25.000	67.000	67.000	54.100	54.100	38.000	38.000
20.000	25.000	25.000	67.000	67.000	52.200	52.200	37.000	37.000
25.000	24.200	24.200	67.000	67.000	50.200	50.200	36.000	36.000
31.250	23.300	23.300	67.000	67.000	48.300	48.300	35.100	35.100
62.500	20.700	20.700	65.600	65.600	42.300	42.300	32.000	32.000
100.000	19.000	19.000	62.500	62.500	38.200	38.200	30.000	30.000
200.000	16.400	16.400	58.000	58.000	32.200	32.200	27.000	27.000
250.000	15.600	15.600	56.500	56.500	30.200	30.200	26.000	26.000
300.000	14.900	14.900	55.300	55.300	28.700	28.700	25.200	25.200
400.000	13.800	13.800	53.500	53.500	26.200	26.200	24.000	24.000
500.000	13.000	13.000	52.000	52.000	24.200	24.200	23.000	23.000

**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:**
- CAD1106000 is subdivided as following CA-D1-1-00-000  
CA 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.
  - 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: 0.0152 lbs/ft.

## Product Family

### Product List:

Length	Black	Red	Orange	Yellow	Green	Blue	Gray	White
2 ft. (0.6 m)	CAD1100002	CAD1102002	CAD1103002	CAD1104002	CAD1105002	CAD1106002	CAD1108002	CAD1109002
3 ft. (0.9 m)	CAD1100003	CAD1102003	CAD1103003	CAD1104003	CAD1105003	CAD1106003	CAD1108003	CAD1109003
4 ft. (1.2 m)	CAD1100004	CAD1102004	CAD1103004	CAD1104004	CAD1105004	CAD1106004	CAD1108004	CAD1109004
5 ft. (1.5 m)	CAD1100005	CAD1102005	CAD1103005	CAD1104005	CAD1105005	CAD1106005	CAD1108005	CAD1109005

## CAD1100000 Cable Assemblies - CAT6A Performance Modular Cord

6 ft. (1.8 m)	CAD1100006	CAD1102006	CAD1103006	CAD1104006	CAD1105006	CAD1106006	CAD1108006	CAD1109006
7 ft. (2.1 m)	CAD1100007	CAD1102007	CAD1103007	CAD1104007	CAD1105007	CAD1106007	CAD1108007	CAD1109007
8 ft. (2.4 m)	CAD1100008	CAD1102008	CAD1103008	CAD1104008	CAD1105008	CAD1106008	CAD1108008	CAD1109008
9 ft. (2.7 m)	CAD1100009	CAD1102009	CAD1103009	CAD1104009	CAD1105009	CAD1106009	CAD1108009	CAD1109009
10 ft. (3.0 m)	CAD1100010	CAD1102010	CAD1103010	CAD1104010	CAD1105010	CAD1106010	CAD1108010	CAD1109010
12 ft. (3.6 m)	CAD1100012	CAD1102012	CAD1103012	CAD1104012	CAD1105012	CAD1106012	CAD1108012	CAD1109012
15 ft. (4.6 m)	CAD1100015	CAD1102015	CAD1103015	CAD1104015	CAD1105015	CAD1106015	CAD1108015	CAD1109015
25 ft. (7.6 m)	CAD1100025	CAD1102025	CAD1103025	CAD1104025	CAD1105025	CAD1106025	CAD1108025	CAD1109025

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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