

## CAD110000 Cable Assemblies - CAT6A Performance Modular Cord



For more Information  
please call

1-800-Belden1



### General Description:

CAT6A Performance Patch Cord, 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:	0.186 in.
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### 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
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#### Wiring Scheme

Wiring Scheme:	T568A/B-T568A/B
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#### Packaging

## CAD110000 Cable Assemblies - CAT6A Performance Modular Cord

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: 11.250 lbs.

Min. Bend Radius (Overall Cable): 0.744 in.

### 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
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

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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	Blue	White	Red	Black
2 ft. (0.6 m)	CAD1106002	CAD1109002	CAD1102002	CAD1100002
3 ft. (0.9 m)	CAD1106003	CAD1109003	CAD1102003	CAD1100003
4 ft. (1.2 m)	CAD1106004	CAD1109004	CAD1102004	CAD1100004
5 ft. (1.5 m)	CAD1106005	CAD1109005	CAD1102005	CAD1100005
6 ft. (1.8 m)	CAD1106006	CAD1109006	CAD1102006	CAD1100006
7 ft. (2.1 m)	CAD1106007	CAD1109007	CAD1102007	CAD1100007
8 ft. (2.4 m)	CAD1106008	CAD1109008	CAD1102008	CAD1100008
9 ft. (2.7 m)	CAD1106009	CAD1109009	CAD1102009	CAD1100009
10 ft. (3.0 m)	CAD1106010	CAD1109010	CAD1102010	CAD1100010
12 ft. (3.6 m)	CAD1106012	CAD1109012	CAD1102012	CAD1100012
15 ft. (4.6 m)	CAD1106015	CAD1109015	CAD1102015	CAD1100015
25 ft. (7.6 m)	CAD1106025	CAD1109025	CAD1102025	CAD1100025

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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