

C6D110000 Cable Assemblies - CAT6 Performance Modular Cord



For more Information
please call

1-800-Belden1



General Description:

CAT6 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 6, ISO Class E, 1000BASE-T
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:	3.683 mm
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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

Packaging:	Individually packaged in a clear plastic bag.
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Mechanical Characteristics (Connectivity)

Plug / Jack Compatibility:	RJ45
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Termination Interface:

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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:	Category 6 - TIA 568.C.2, ISO/IEC 11801:2002 Ed.2
Safety Listing:	c(UL)us Listed

Suitability

Suitability - Indoor:	Yes
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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
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-C.2 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

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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.): Weight: 0.012 Lbs/ft. www.belden.com/p

Product Family

Product List:

Length	Blue	White	Red	Black
2 ft. (0.6 m)	C6D1106002	C6D1109002	C6D1102002	C6D1100002
3 ft. (0.9 m)	C6D1106003	C6D1109003	C6D1102003	C6D1100003
4 ft. (1.2 m)	C6D1106004	C6D1109004	C6D1102004	C6D1100004
5 ft. (1.5 m)	C6D1106005	C6D1109005	C6D1102005	C6D1100005
6 ft. (1.8 m)	C6D1106006	C6D1109006	C6D1102006	C6D1100006
7 ft. (2.1 m)	C6D1106007	C6D1109007	C6D1102007	C6D1100007
8 ft. (2.4 m)	C6D1106008	C6D1109008	C6D1102008	C6D1100008
9 ft. (2.7 m)	C6D1106009	C6D1109009	C6D1102009	C6D1100009
10 ft. (3.0 m)	C6D1106010	C6D1109010	C6D1102010	C6D1100010
12 ft. (3.6 m)	C6D1106012	C6D1109012	C6D1102012	C6D1100012
15 ft. (4.6 m)	C6D1106015	C6D1109015	C6D1102015	C6D1100015
25 ft. (7.6 m)	C6D1106025	C6D1109025	C6D1102025	C6D1100025

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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