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1-800-Belden1



## General Description:

CAT6+ Patch Cord, Bonded-Pair, 4 Pair, 24 AWG Solid, CMR, T568A/B-T568A/B, White, 7 ft. (2.1 m).

## Usage (Overall)

Suitable Applications:	IBDN System 4800, IBDN System 2400, TIA Category 6, ISO Class E, 1000BASE-T
Related Parts:	CAT6+ Modular Jacks, CAT6+ 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

Outer Jacket Color Code Chart:

Color
White

#### Overall Cabling

Overall Cabling Fillers:	Cross Web
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#### Overall Diameter

Overall Nominal Diameter:	0.238 in.
Individual Cable Diameter:	0.250 in.

## Physical Characteristics (Connectivity)

### Materials

Materials:

Description	Type	Material
Plug	RJ45	Polycarbonate
Boot		Rubber
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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#### Weight

Weight:	0.060 lbs.
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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:

Termination	Connection	Durabilities
RJ45	Mated Connection	750 Cycles

## C601109007 Cable Assemblies - CAT6+ Modular Cord

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: 25 lbs.

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

### Environmental/Mechanical Characteristics:

Test (Method)	TIA 568-C.3	Belden
Thermal Cycling (FOTP-3)	n/a	-40 to 75°C cycling for 7 days
Temperature Life (FOTP-4)	60°C for 4 days	85°C for 7 days
Humidity (FOTP-5)	90-95% at 40°C for 4 days	95% @ 75°C for 7 days
Durability (FOTP-21)	500 cycles	6 x 200 cycles (3 Elevations)
Cable Retention (FOTP-6)	5.0 kg @ 0 deg., 1.94 kg @90 deg.	6.8 kg @ 0 deg., 3.4 kg @ 90 deg.
Flex (FOTP-1)	0.5 kg @ 90° to -90° for 100 cycles	0.9 kg @ 90° to -90° for 100 cycles
Twist (FOTP-36)	1.5 kg for 10 cycles	1.5 kg for 10 cycles

### Overall Length Tolerances:

Range	Tolerance	Range	Tolerance	Range	Tolerance
Sx & Dx Patchcord	Sx & Dx Patchcord	MPO Trunk	MPO Trunk	Multi-Fiber Cable Assembly	Multi-Fiber Cable Assembly
0 to 2 meters	+0.2 / -0 meter	0 to 2 meters	+0.2 / -0 meter	0 to 2 meters	+0.2 / -0 meter
2.1 to 5.0 meters	+0.3 / -0 meter	2.1 to 5.0 meters	+0.3 / -0 meter	2.1 to 5.0 meters	+0.3 / -0 meter
5.1 to 40 meters	+0.4 / -0 meter	5.1 to 20 meters	+0.4 / -0 meter	5.1 to 20 meters	+0.4 / -0 meter
Over 40.1 meters	+ 1.0% / -0%	Over 20.1 meters	+ 1.0% / -0%	Over 20.1 meters	+ 1.3 / -0 meter

## 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

MIL Order #39 (China RoHS): EUP 50

Telecommunications Standards: Category 6 - TIA 568.C.2, ISO/IEC 11801:2002 Ed.2

Safety Listing: ACA, Bi-national Standard Listed

### Suitability

Suitability - Indoor: Yes

## Transmission Characteristics (Connectivity)

### Optical Connector Performance:

Description	OM1	OM2	OM3	OM4	OS2 / UPC	OS2 / APC
Maximum Insertion Loss (dB)	0.5 dB	0.5 dB	0.5 dB	0.15 dB	0.5 dB	0.5 dB
Minimum Reflectance (dB)	-20 dB	-20 dB	-20 dB	-20 dB	-50 dB	- 65 dB

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	72.300	73.300	64.800	67.800
4.000	4.500	3.700	63.300	64.300	52.800	55.800
8.000	6.400	5.200	58.800	61.300	46.700	49.700
10.000	7.100	5.900	57.300	59.800	44.800	47.800
16.000	9.100	7.400	54.200	56.600	40.700	43.700
20.000	10.200	8.300	52.800	55.100	38.800	41.800
25.000	11.400	9.300	51.300	53.500	36.800	39.800
31.250	12.800	10.400	49.900	52.000	34.900	37.900
62.500	18.500	14.900	45.400	47.100	28.900	31.900
100.000	23.800	19.000	42.300	43.800	24.800	27.800
200.000	34.800	27.500	37.800	38.900	18.800	21.800
250.000	39.400	31.000	36.300	37.300	16.800	19.800
300.000		34.200		36.100		18.300

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

## C601109007 Cable Assemblies - CAT6+ Modular Cord

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	20.800	30.000	30.000
200.000	16.400	18.700	27.000	27.000
250.000	15.600	18.000	26.000	26.000
300.000		17.500		

**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

### Notes (Overall)

**Notes:** C601109007 is subdivided as following C6-01-1-09-007 C6 stands for performance, 01 stands for cable type, 1 stands for termination type, 09 stands for color, 007 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

**Notes (Cont'd.):** [www.belden.com/p](http://www.belden.com/p)

### Product Family

#### Product List:

Length	Yellow	Green	Blue	Gray	White	Black	Purple
2 ft. (0.6 m)	C601104002	C601105002	C601106002	C601108002	C601109002	C601100002	C601107002
4 ft. (1.2 m)	C601104004	C601105004	C601106004	C601108004	C601109004	C601100004	C601107004
7 ft. (2.1 m)	C601104007	C601105007	C601106007	C601108007	C601109007	C601100007	C601107007
10 ft. (3.0 m)	C601104010	C601105010	C601106010	C601108010	C601109010	C601100010	C601107010
15 ft. (4.6 m)	C601104015	C601105015	C601106015	C601108015	C601109015	C601100015	C601107015
25 ft. (7.6 m)	C601104025	C601105025	C601106025	C601108025	C601109025	C601100025	C601107025

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
C601109007	1 EA	0.254 LB	WHITE		PATCHCORD BCAT6+ CMR WHI 7FT

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