

## CA21109010A06 Cable Assemblies - 10GX Pre-Terminated Cable Assembly



For more Information  
please call

1-800-Belden1



### General Description:

10GX Pre-Terminated Cable Assembly, Bonded-Pair, 4-Pair, 24 AWG Solid, T568A/B-T568A/B, 6 Cables, CMR, White, 10 ft. (3.0 m).

### Usage (Overall)

Suitable Applications: IBDN System 10GX, TIA Category 6A, 10GBASE-T

Related Parts: 10GX RJ45 Couplers, 10GX Coupler 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

##### Inner Jacket

Inner Jacket Material:

Inner Jacket Material
PVC - Polyvinyl Chloride

##### 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

Outer Jacket Color Code Chart:

Color
White

### Overall Cabling

Overall Cabling Fillers: Cross Web

### Overall Diameter

Overall Nominal Diameter: 0.850 in.

Individual Cable Diameter: 0.265 in.

### Physical Characteristics (Connectivity)

#### Materials

Materials:

Description	Type	Material
Plug	RJ45	Polycarbonate
Boot		Elastomer
Front Connection	Blades	Phosphor Bronze with 50u inch Gold over Nickel Plating
Sleeve		Engineered Polymer Riser Rated

#### Color

Boot Color: Translucent

### Wiring Scheme

Wiring Scheme: T568A/B-T568A/B

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### Weight

Weight: 3.580 lbs.

### Packaging

Packaging: Individually packaged in a box.

### Mechanical Characteristics (Connectivity)

Plug / Jack Compatibility: RJ45

#### Termination Interface:

Termination	Connection	Durabilities
RJ45	Mated Connection	750 Cycles

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.

### 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): 01/01/2009

MII Order #39 (China RoHS): EUP 50

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

Safety Listing: Bi-national Standard 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	2.400	72.300	72.300	64.800	64.800
4.000	4.600	4.500	63.300	63.300	52.800	52.800
8.000	6.400	6.300	58.800	58.800	46.700	46.700
10.000	7.100	7.000	57.300	57.300	44.800	44.800
16.000	9.000	8.900	54.200	54.300	40.700	40.700
20.000	10.100	10.000	52.800	52.800	38.800	38.800
25.000	11.300	11.100	51.300	51.300	36.800	36.800
31.250	12.600	12.500	49.900	49.900	34.900	34.900
62.500	18.000	17.900	45.400	45.400	28.900	28.900
100.000	22.900	22.800	42.300	42.300	24.800	24.800
200.000	33.100	33.000	37.800	37.800	18.800	20.900
250.000	37.300	37.200	36.300	36.300	16.800	16.800
300.000	41.200	41.000	35.100	35.200	15.300	15.300
400.000	48.100	48.000	33.300	33.300	12.800	13.900
500.000	54.400	54.300	31.800	31.800	10.800	11.700
625.000		61.500		30.400		8.800

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	87.000	67.000	75.000	40.000	48.000
4.000	23.000	23.000	67.000	87.000	66.200	75.000	40.000	48.000
8.000	24.500	24.500	67.000	87.000	60.100	75.000	40.000	48.000
10.000	25.000	25.000	67.000	87.000	58.200	75.000	40.000	48.000
16.000	25.000	25.000	67.000	87.000	54.100	70.900	38.000	46.000
20.000	25.000	25.000	67.000	87.000	52.200	69.000	37.000	45.000
25.000	24.200	25.000	67.000	87.000	50.200	67.000	36.000	44.000

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31.250	23.300	25.000	67.000	87.000	48.300	65.100	35.100	43.100
62.500	20.700	25.000	65.600	85.600	42.300	59.100	32.000	40.000
100.000	19.000	25.000	62.500	82.500	38.200	55.000	30.000	38.000
200.000	16.400	21.000	58.000	78.000	32.200	49.000	27.000	35.000
250.000	15.600	20.500	56.500	76.500	30.200	47.000	26.000	34.000
300.000	14.900	20.100	55.300	75.300	28.700	43.800	25.200	33.200
400.000	13.800	19.500	53.500	73.500	26.200	38.800	24.000	32.000
500.000	13.000	18.400	52.000	72.000	24.200	35.000	23.000	31.000
625.000		17.400		65.000		31.100		

**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:** Labeled at both ends: Part Number, Serial Number, Termination Scheme, Length, Individual cable identification. Customized Labeling for cable assemblies optional upon request.

#### Notes (Overall)

**Notes:** CA21109010A06 is subdivided as following CA-21-1-09-010-A-06 where CA stands for performance, 21 stands for jacket type, 1 stands for termination type, 09 stands for color, 010 stands for length, A stands for assembly, and 06 stands for number of cables Use "010" part of the code to specify length in feet - 010-050 ft in increments of 1 ft - 055-265 ft in increments of 5 ft

#### Product Family

##### Product List:

Description	Black	Blue	White
6 ft. (1.8 m)	CA21100006A06	CA21106006A06	CA21109006A06
10 ft. (3.0 m)	CA21100010A06	CA21106010A06	CA21109010A06
100 ft. (30.5 m)	CA21100100A06	CA21106100A06	CA21109100A06

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
CA21109010A06	1 EA	4.045 LB			10GX PRE-TERM ASSY WHI 10FT

Revision Number: 1 Revision Date: 03-19-2014

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А