Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

CAT1100000 Cable Assemblies - 10GX Modular Cord

For more Information please call

1-800-Belden1

General Description:

10GX Traceable Patch Cord, Bonded-Pair, 4-Pair, 24 AWG Solid, CMR, T568A/B-T568A/B

Usage (Overall)

Suitable Applications: IBDN System 10GX, TIA Category 6A, ISO Class EA, 10GBASE-T. 20 and 40 sec. flashing high intensity LED Battery operated (included), push button activated.

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

Multi Conductor

Physical Characteristics

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper
1	30	Solid	BC - Bare Copper

Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

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 Cabling

Overall Cabling Fillers: Cross Web

Overall Diameter

Overall Nominal Diameter: 0.265 in.

Physical Characteristics (Connectivity)

Materials

Materials:

Description	Type	Material
Plug	RJ45	Polycarbonate
Boot		Elastomer
Contacts	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 +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):	01/01/2006
MII Order #39 (China RoHS):	EUP 50
Telecommunications Standards:	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.2-10-2008 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
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:	Labeling: Belden Part Number, Performance Acronym, Wiring Scheme and Cord Length. Serial Number Barecode Label.

Notes (Overall)

Notes: CAT1100000 is subdivided as following CA-T1-1-00-000 CA stands for performance, T1 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

Notes (Cont'd.):	Cable Weight: 0.033 Lbs/ft. Power: One (1) battery CR927 3V. Lithium (replaceable). Shelf Life: 7 years (Battery), 20 years (Data Transmission). www.belden.com/p

Product Family

Product List:

Length	Blue	Gray	White	Red	Yellow	Green	Black	Orange
1 ft. (0.3m)	CAT1106001	CAT1108001	CAT1109001	CAT1102001	CAT1104001	CAT1105001	CAT1100001	CAT1103001
2 ft. (0.6 m)	CAT1106002	CAT1108002	CAT1109002	CAT1102002	CAT1104002	CAT1105002	CAT1100002	CAT1103002
3 ft. (0.9 m)	CAT1106003	CAT1108003	CAT1109003	CAT1102003	CAT1104003	CAT1105003	CAT1100003	CAT1103003
4 ft. (1.2 m)	CAT1106004	CAT1108004	CAT1109004	CAT1102004	CAT1104004	CAT1105004	CAT1100004	CAT1103004
5 ft (1.5 m)	CAT1106005	CAT1108005	CAT1109005	CAT1102005	CAT1104005	CAT1105005	CAT1100005	CAT1103005
6 ft (1.8 m)	CAT1106006	CAT1108006	CAT1109006	CAT1102006	CAT1104006	CAT1105006	CAT1100006	CAT1103006
7 ft. (2.1 m)	CAT1106007	CAT1108007	CAT1109007	CAT1102007	CAT1104007	CAT1105007	CAT1100007	CAT1103007
8 ft (2.4 m)	CAT1106008	CAT1108008	CAT1109008	CAT1102008	CAT1104008	CAT1105008	CAT1100008	CAT1103008
9 ft (2.7 m)	CAT1106009	CAT1108009	CAT1109009	CAT1102009	CAT1104009	CAT1105009	CAT1100009	CAT1103009
10 ft. (3.0 m)	CAT1106010	CAT1108010	CAT1109010	CAT1102010	CAT1104010	CAT1105010	CAT1100010	CAT1103010
11 ft. (3.4 m)	CAT1106011	CAT1108011	CAT1109011	CAT1102011	CAT1104011	CAT1105011	CAT1100011	CAT1103011
12 ft (3.6 m)	CAT1106012	CAT1108012	CAT1109012	CAT1102012	CAT1104012	CAT1105012	CAT1100012	CAT1103012
13 ft. (4.0 m)	CAT1106013	CAT1108013	CAT1109013	CAT1102013	CAT1104013	CAT1105013	CAT1100013	CAT1103013
14 ft. (4.3 m)	CAT1106014	CAT1108014	CAT1109014	CAT1102014	CAT1104014	CAT1105014	CAT1100014	CAT1103014
15 ft. (4.6 m)	CAT1106015	CAT1108015	CAT1109015	CAT1102015	CAT1104015	CAT1105015	CAT1100015	CAT1103015
20 ft. (6.1 m)	CAT1106020	CAT1108020	CAT1109020	CAT1102020	CAT1104020	CAT1105020	CAT1100020	CAT1103020
25 ft. (7.6 m)	CAT1106025	CAT1108025	CAT1109025	CAT1102025	CAT1104025	CAT1105025	CAT1100025	CAT1103025
xxx	CAT1106xxx	CAT1108xxx	CAT1109xxx	CAT1102xxx	CAT1104xxx	CAT1105xxx	CAT1100xxx	CAT1103xxx

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc

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Телефон: 8 (812) 309-75-97 (многоканальный)
Факс: 8 (812) 320-03-32
Электронная почта: ocean@oceanchips.ru
Web: http://oceanchips.ru/
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А