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1-800-Belden1



General Description:

10GX Patch Cord, Bonded-Pair, 4-Pair, 24 AWG Solid, CMR, T568A/B-T568A/B, Black, 10 ft. (3.0 m).

Usage (Overall)

| | |
|------------------------|--|
| Suitable Applications: | IBDN System 10GX, TIA Category 6A, ISO Class EA, 10GBASE-T |
| Related Parts: | 10GX Modular Jacks, 10GX 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 |
|-------|
| Black |

Overall Cabling

Overall Cabling Fillers: Cross Web

Overall Diameter

Overall Nominal Diameter: 0.285 in.
Individual Cable Diameter: 0.285 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

Wiring Scheme

Wiring Scheme: T568A/B-T568A/B

Weight

Weight: 0.380 lbs.

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

MIL Order #39 (China RoHS): EUP 50

Telecommunications Standards: Category 6A - TIA 568.B.2-10, ISO/IEC 11801:2002 Amendment 2

Safety Listing: ACA, 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. PSAACRF TIA* (dB) | Min. PSAACRF 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-B.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 |

CA21100010 Cable Assemblies - 10GX Modular Cord

| | | | | | | | | |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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

Notes (Overall)

Product Family

Product List:

| Length | Yellow | Green | Blue | Gray | White | Black | Red | Orange | Purple |
|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 2 ft. (0.6 m) | CA21104002 | CA21105002 | CA21106002 | CA21108002 | CA21109002 | CA21100002 | CA21102002 | CA21103002 | CA21107002 |
| 3 ft. (0.9 m) | CA21104003 | CA21105003 | CA21106003 | CA21108003 | CA21109003 | CA21100003 | CA21102003 | CA21103003 | CA21107003 |
| 4 ft. (1.2 m) | CA21104004 | CA21105004 | CA21106004 | CA21108004 | CA21109004 | CA21100004 | CA21102004 | CA21103004 | CA21107004 |
| 5 ft. (1.5 m) | CA21104005 | CA21105005 | CA21106005 | CA21108005 | CA21109005 | CA21100005 | CA21102005 | CA21103005 | CA21107005 |
| 6 ft. (1.8 m) | CA21104006 | CA21105006 | CA21106006 | CA21108006 | CA21109006 | CA21100006 | CA21102006 | CA21103006 | CA21107006 |
| 7 ft. (2.1 m) | CA21104007 | CA21105007 | CA21106007 | CA21108007 | CA21109007 | CA21100007 | CA21102007 | CA21103007 | CA21107007 |
| 8 ft. (2.4 m) | CA21104008 | CA21105008 | CA21106008 | CA21108008 | CA21109008 | CA21100008 | CA21102008 | CA21103008 | CA21107008 |
| 9 ft. (2.7 m) | CA21104009 | CA21105009 | CA21106009 | CA21108009 | CA21109009 | CA21100009 | CA21102009 | CA21103009 | CA21107009 |
| 10 ft. (3.0 m) | CA21104010 | CA21105010 | CA21106010 | CA21108010 | CA21109010 | CA21100010 | CA21102010 | CA21103010 | CA21107010 |
| 12 ft. (3.6 m) | CA21104012 | CA21105012 | CA21106012 | CA21108012 | CA21109012 | CA21100012 | CA21102012 | CA21103012 | CA21107012 |
| 15 ft. (4.6 m) | CA21104015 | CA21105015 | CA21106015 | CA21108015 | CA21109015 | CA21100015 | CA21102015 | CA21103015 | CA21107015 |
| 25 ft. (7.6 m) | CA21104025 | CA21105025 | CA21106025 | CA21108025 | CA21109025 | CA21100025 | CA21102025 | CA21103025 | CA21107025 |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|------------|-------|-------------|-------|-------|------------------------------|
| CA21100010 | 1 EA | 0.410 LB | | | PATCHCORD B10GX CMR BLK 10FT |

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