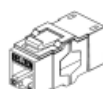


AX104024 Modular Connectors - 10GX KeyConnect RJ45 Coupler



For more Information
please call

1-800-Belden1



General Description:

10GX RJ45 Coupler, Category 6A, KeyConnect, Black

Usage (Overall)

| | |
|------------------------|--|
| Suitable Applications: | IBDN System 10GX, TIA Category 6A, 10GBASE-T |
| Related Parts: | 10GX Coupler Patch Panels |

Multi Conductor

Physical Characteristics
Overall Cabling
Overall Diameter

Physical Characteristics (Connectivity)

Dimensions

Dimensions:

| Height (in.) | Width (in.) | Depth (in.) |
|--------------|-------------|-------------|
| 0.895 | 0.692 | 1.522 |

Materials

Materials:

| Description | Type | Material |
|------------------|--------------|---|
| Front Connection | Flexible PCB | Flexible PCB with 50u inch Gold over Nickel |
| Rear Connection | Flexible PCB | Flexible PCB with 50u inch Gold over Nickel |
| Connector Body | N/A | Plastic - UL94V-0 |

Color

| | |
|--------|-------|
| Color: | Black |
|--------|-------|

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)

| | |
|-----------------|------------|
| Footprint/Type: | KeyConnect |
|-----------------|------------|

| | |
|----------------------------|------|
| Plug / Jack Compatibility: | RJ45 |
|----------------------------|------|

Termination Interface:

| Termination | Connection | Durabilities |
|-------------|------------------|--------------|
| Front | Mated Connection | 750 cycles |
| Rear | Mated Connection | 750 cycles |

| | |
|-------------------------------|---------|
| Connector/Hardware Retention: | 20 lbs. |
|-------------------------------|---------|

| | |
|----------------------------|----------------|
| Storage Temperature Range: | -40°C To +70°C |
|----------------------------|----------------|

| | |
|---------------------------------|----------------|
| Installation Temperature Range: | -10°C To +60°C |
|---------------------------------|----------------|

| | |
|------------------------------|----------------|
| Operating Temperature Range: | -10°C To +60°C |
|------------------------------|----------------|

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|------------------|-------------------------------------|
| Other Standards: | FCC Part 68, Subpart F, IEC 60603-7 |
|------------------|-------------------------------------|

| | |
|---------------------------------|-----|
| EU Directive 2002/95/EC (RoHS): | Yes |
|---------------------------------|-----|

| | |
|---------------------------------------|------------|
| EU RoHS Compliance Date (mm/dd/yyyy): | 08/01/2008 |
|---------------------------------------|------------|

| | |
|-----------------------------|--------|
| MII Order #39 (China RoHS): | EUP 50 |
|-----------------------------|--------|

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Telecommunications Standards:

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

Safety Listing:

ACA, Bi-national Standard Listed

Suitability

Suitability - Indoor:

Yes

Plenum/Non-Plenum

Transmission Characteristics (Connectivity)

Mated Connection Table 1:

| Frequency (MHz) | Max. Insertion Loss TIA* (dB) | Max. Insertion Loss Belden** (dB) | Min. NEXT TIA* (dB) | Min. NEXT Belden** (dB) | Min. FEXT TIA* (dB) | Min. FEXT Belden** (dB) |
|-----------------|-------------------------------|-----------------------------------|---------------------|-------------------------|---------------------|-------------------------|
| 1.000 | 0.100 | 0.100 | 75.000 | 75.000 | 75.000 | 75.000 |
| 4.000 | 0.100 | 0.100 | 75.000 | 75.000 | 71.100 | 75.000 |
| 8.000 | 0.100 | 0.100 | 75.000 | 75.000 | 65.000 | 69.000 |
| 10.000 | 0.100 | 0.100 | 74.000 | 75.000 | 63.100 | 67.100 |
| 16.000 | 0.100 | 0.100 | 69.900 | 70.920 | 59.000 | 63.000 |
| 20.000 | 0.100 | 0.100 | 68.000 | 68.980 | 57.100 | 61.100 |
| 25.000 | 0.100 | 0.100 | 66.000 | 67.040 | 55.100 | 59.100 |
| 31.250 | 0.110 | 0.110 | 64.100 | 65.100 | 53.200 | 57.200 |
| 62.500 | 0.160 | 0.160 | 58.100 | 59.080 | 47.200 | 51.200 |
| 100.000 | 0.200 | 0.200 | 54.000 | 55.000 | 43.100 | 47.100 |
| 200.000 | 0.280 | 0.280 | 48.000 | 48.980 | 37.100 | 41.100 |
| 250.000 | 0.320 | 0.320 | 46.000 | 47.040 | 35.100 | 39.100 |
| 300.000 | 0.350 | 0.350 | 42.900 | 43.870 | 33.600 | 37.600 |
| 400.000 | 0.400 | 0.400 | 37.900 | 38.880 | 31.100 | 35.100 |
| 500.000 | 0.450 | 0.450 | 34.000 | 35.000 | 29.100 | 33.100 |
| 625.000 | | 0.500 | | 31.120 | | 31.200 |

Mated Connection Table - Footnote:

* TIA/EIA-568-B.2-10-2008 Category 6A ** Worst-case performance for a 10GX mated connection using 10GX modular plugs on both sides

Mated Connection Table 2:

| Frequency (MHz) | Min. Return Loss TIA* (dB) | Min. Return Loss Belden** (dB) | Min. PSANEXT TIA* (dB) | Min. PSANEXT Belden** (dB) | Min. PSAACRF TIA* (dB) | Min. PSAACRF Belden** (dB) | Min. Balanced TCL TIA* (dB) | Min. Balanced TCL Belden** (dB) |
|-----------------|----------------------------|--------------------------------|------------------------|----------------------------|------------------------|----------------------------|-----------------------------|---------------------------------|
| 1.000 | 30.000 | 30.000 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 4.000 | 30.000 | 30.000 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 8.000 | 30.000 | 30.000 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 10.000 | 30.000 | 30.000 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 16.000 | 30.000 | 30.000 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 20.000 | 30.000 | 30.000 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 25.000 | 30.000 | 30.000 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 31.250 | 30.000 | 30.000 | 70.500 | 72.000 | 67.000 | 72.000 | 38.100 | 45.000 |
| 62.500 | 30.000 | 30.000 | 70.500 | 72.000 | 67.000 | 72.000 | 32.100 | 42.100 |
| 100.000 | 28.000 | 28.000 | 70.500 | 72.000 | 67.000 | 72.000 | 28.000 | 38.000 |
| 200.000 | 22.000 | 22.000 | 64.500 | 66.000 | 61.000 | 66.000 | 22.000 | 32.000 |
| 250.000 | 20.000 | 20.000 | 62.500 | 64.000 | 59.000 | 64.000 | 20.000 | 30.000 |
| 300.000 | 18.500 | 18.500 | 61.000 | 62.500 | 57.500 | 62.500 | 18.500 | 28.500 |
| 400.000 | 16.000 | 16.000 | 58.500 | 60.000 | 55.000 | 60.000 | 16.000 | 26.000 |
| 500.000 | 14.000 | 14.000 | 56.500 | 58.000 | 53.000 | 58.000 | 14.000 | 24.000 |
| 625.000 | | 12.100 | | 56.100 | | 56.100 | | 22.100 |

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

Part Number List:

| Item Number | Color |
|-------------|--------|
| AX104015 | Orange |
| AX104016 | Red |
| AX104017 | Yellow |
| AX104018 | Green |
| AX104019 | Blue |
| AX104022 | Gray |
| AX104023 | White |
| AX104024 | Black |

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Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------|-------|-------------|-------|-------|----------------------------|
| AX104024 | 1 EA | 0.033 LB | | | 10GX KCONN RJ45 COUPLER,BK |

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