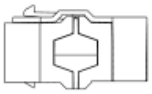
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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 - TIA 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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