# **Detailed Specifications & Technical Data**



# METRIC MEASUREMENT VERSION

# AX101307 Modular Connectors - CAT5E Modular Jack - KeyConnect







For more Information please call

1-800-Belden1



# **General Description:**

CAT5E Modular Jack, RJ45, KeyConnect style, Gray

Usage (Overall)				
Suitable Applications:	IBDN System 1200, TIA Category 5E, ISO Class D, 1000 BASE-T			
Related Parts:	Compatible with KeyConnect Faceplates, Adapters, Boxes and Patch Panels			
Physical Characteristics (Connectivity)				
Dimensions				
Dimensions:				
Height (mm)     Width (mm)     Depth (mm)       22.352     16.256     32.766				
Materials Materials:				
Description Type Material				
Front Connection Lead Frame Copper Allow with 50u inch Gold or	ver Nickel			
Rear Connection IDC Copper Allow with Nickel Plating				
Connector Body Plastic - UL940V-0				
Color				
Color:	Gray			
Wiring Scheme				
Wiring Scheme:	T568A/B			
Weight				
Weight:	0.006 kg			
Included Parts				
Included Parts:	1 T-Bar			
Packaging				
Packaging:	Individually packaged in a plastic bag. Standard pack of 50 units.			
Mechanical Characteristics (Connectivity)				
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Footprint/Type:	KeyConnect			
	KeyConnect RJ45, RJ11			
Footprint/Type: Plug / Jack Compatibility: Termination Interface:				
Footprint/Type: Plug / Jack Compatibility: Termination Interface: Termination Connection Durabilities				
Footprint/Type:   Plug / Jack Compatibility:   Termination Interface:   Termination Connection   Front Mated Connection   1,000 cycles				
Footprint/Type:     Plug / Jack Compatibility:     Termination Interface:     Termination Connection   Durabilities     Front   Mated Connection   1,000 cycles     Rear   Gas Tight IDC Connection   20 terminations	RJ45, RJ11			
Footprint/Type:     Plug / Jack Compatibility:     Termination Interface:     Termination Connection     Front   Mated Connection   1,000 cycles     Rear   Gas Tight IDC Connection   20 terminations     Connector/Hardware Retention:	RJ45, RJ11 88.964 N			
Footprint/Type: Plug / Jack Compatibility: Termination Interface: Termination Connection Durabilities Front Mated Connection 1,000 cycles Rear Gas Tight IDC Connection 20 terminations Connector/Hardware Retention: Plug/Connector Retention:	RJ45, RJ11 88.964 N 50.042 N			
Footprint/Type:     Plug / Jack Compatibility:     Termination Interface:     Termination Connection   Durabilities     Front   Mated Connection   1,000 cycles     Rear   Gas Tight IDC Connection   20 terminations     Connector/Hardware Retention:     Plug/Connector Retention:   Storage Temperature Range:	RJ45, RJ11 88.964 N 50.042 N -40°C To +70°C			
Footprint/Type: Plug / Jack Compatibility: Termination Interface: Termination Connection Durabilities Front Mated Connection 1,000 cycles Rear Gas Tight IDC Connection 20 terminations Connector/Hardware Retention: Plug/Connector Retention:	RJ45, RJ11 88.964 N 50.042 N -40°C To +70°C -10°C To +60°C			
Footprint/Type:     Plug / Jack Compatibility:     Termination Interface:     Termination Connection   Durabilities     Front   Mated Connection   1,000 cycles     Rear   Gas Tight IDC Connection   20 terminations     Connector/Hardware Retention:     Plug/Connector Retention:   Storage Temperature Range:	RJ45, RJ11 88.964 N 50.042 N -40°C To +70°C			
Footprint/Type:     Plug / Jack Compatibility:     Termination Interface:     Termination Connection     Front   Mated Connection   1,000 cycles     Rear   Gas Tight IDC Connection   20 terminations     Connector/Hardware Retention:     Plug/Connector Retention:   Storage Temperature Range:     Installation Temperature Range:   Installation Temperature Range:	RJ45, RJ11 88.964 N 50.042 N -40°C To +70°C -10°C To +60°C			
Footprint/Type:     Plug / Jack Compatibility:     Termination Interface:     Termination Connection   Durabilities     Front   Mated Connection   1,000 cycles     Rear   Gas Tight IDC Connection   20 terminations     Connector/Hardware Retention:     Plug/Connector Retention:     Storage Temperature Range:     Installation Temperature Range:     Operating Temperature Range:	RJ45, RJ11     88.964 N     50.042 N     -40°C To +70°C     -10°C To +60°C     -10°C To +60°C     Belden 110 Connecting Tool, MediaFlex Termination Station			
Footprint/Type:     Plug / Jack Compatibility:     Termination Interface:     Termination Connection     Purabilities     Front   Mated Connection   1,000 cycles     Rear   Gas Tight IDC Connection   20 terminations     Connector/Hardware Retention:     Plug/Connector Retention:   Storage Temperature Range:     Installation Temperature Range:   Operating Temperature Range:     Tool Compatibility:	RJ45, RJ11     88.964 N     50.042 N     -40°C To +70°C     -10°C To +60°C     -10°C To +60°C     Belden 110 Connecting Tool, MediaFlex Termination Station			
Footprint/Type:     Plug / Jack Compatibility:     Termination Interface:     Termination Connection   Durabilities     Front   Mated Connection   1,000 cycles     Rear   Gas Tight IDC Connection   20 terminations     Connector/Hardware Retention:   Plug/Connector Retention:     Storage Temperature Range:   Installation Temperature Range:     Operating Temperature Range:   Tool Compatibility:     Applicable Specifications and Agency Compliance (not preserve)	RJ45, RJ11     88.964 N     50.042 N     -40°C To +70°C     -10°C To +60°C     -10°C To +60°C     Belden 110 Connecting Tool, MediaFlex Termination Station			
Footprint/Type:     Plug / Jack Compatibility:     Termination Interface:     Termination Connection   Durabilities     Front   Mated Connection   1,000 cycles     Rear   Gas Tight IDC Connection   20 terminations     Connector/Hardware Retention:   Plug/Connector Retention:     Storage Temperature Range:   Installation Temperature Range:     Operating Temperature Range:   Tool Compatibility:     Applicable Specifications and Agency Compliance (retriangle & Environmental Programs	RJ45, RJ11     88.964 N     50.042 N     -40°C To +70°C     -10°C To +60°C     -10°C To +60°C     Belden 110 Connecting Tool, MediaFlex Termination Station			
Footprint/Type:     Plug / Jack Compatibility:     Termination Interface:     Termination Connection   Durabilities     Front   Mated Connection   1,000 cycles     Rear   Gas Tight IDC Connection   20 terminations     Connector/Hardware Retention:   Plug/Connector Retention:   Storage Temperature Range:     Installation Temperature Range:   Operating Temperature Range:   Tool Compatibility:     Applicable Specifications and Agency Compliance (retriangle & Environmental Programs Other Standards:   Other Standards:	RJ45, RJ11     88.964 N     50.042 N     -40°C To +70°C     -10°C To +60°C     -10°C To +60°C     Belden 110 Connecting Tool, MediaFlex Termination Station     Overall)     FCC Part 68, Subpart F, IEC 60603-7			

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### METRIC MEASUREMENT VERSION

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Telecommunications Standards:	Category 5 - ISO/IEC 11801:2002 Ed.2
Third Party Performance Verification:	ETL - Verified Category 5e
Safety Listing:	ACA, Bi-national Standard Listed
Suitability	
Suitability - Indoor:	Yes - Indoor

### 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	65.000	77.000	65.000	77.000
4.000	0.100	0.100	65.000	73.800	63.100	74.800
8.000	0.100	0.100	64.900	67.700	57.000	68.700
10.000	0.100	0.100	63.000	65.800	55.100	66.800
16.000	0.100	0.100	58.900	61.700	51.000	62.700
20.000	0.100	0.100	57.000	59.800	49.100	60.800
25.000	0.100	0.100	55.000	57.800	47.100	58.800
31.250	0.110	0.100	53.100	55.900	45.200	56.900
62.500	0.160	0.120	47.100	49.900	39.200	50.900
100.000	0.200	0.160	43.000	45.800	35.100	46.800
160.000		0.210		41.700		42.700

#### Mated Connection Table - Footnote:

\* TIA/EIA-568-C.2 Category 5e Standard. \*\* Worst-case performance for a CAT5e mated connection using CAT5e modular plugs.

#### Mated Connection Table 2:

Frequency (MHz)	Min. Return Loss TIA* (dB)	Min. Return Loss Belden** (dB)	Min. Balanced TCL Belden** (dB)
1.000	30.000	32.000	42.000
4.000	30.000	32.000	42.000
8.000	30.000	32.000	42.000
10.000	30.000	32.000	42.000
16.000	30.000	32.000	42.000
20.000	30.000	32.000	42.000
25.000	30.000	32.000	42.000
31.250	30.000	32.000	42.000
62.500	24.100	31.100	36.100
100.000	20.000	27.000	32.000
160.000		22.900	27.900

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		
Termination Resistance:	2.5 m-Ohm		

# Notes (Overall)

AX103079

Ivory

Notes: Please see Installation Guide PX103329

Notes (Cont'd.):				
duct Family art Number List:				
Item Number	Color			
AX101307	Gray			
AX101308	Almond			
AX101309	Elec. White			
AX101310	Black			
AX101311	Orange (TIA 606)			
AX101312	Red (TIA 606)			
AX101313	Yellow (TIA 606)			
AX101314	Green (TIA 606)			
AX101315	Blue (TIA 606)			
AX101316	Purple (TIA 606)			
AX101317	Brown (TIA 606)			



### METRIC MEASUREMENT VERSION

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AX104182	Orange
AX104183	Red
AX104184	Yellow
AX104185	Green
AX104186	Blue
AX104187	Purple

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
AX101307	1 EA	0.024 LB			CAT5E JACK KCONN GREY

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