Mini-Com® Mini-Jack™ TX5e™ UTP Jack Module

specifications

Category 5e/Class D, 8-position, UTP jack module shall terminate solid, 4-pair, 24 – 22 AWG, 100 ohm unshielded twisted pair cable and shall not require use of a punchdown tool. UTP jack modules shall use a downward forward motion termination method to optimize performance by maintaining cable pair geometry while eliminating conductor untwist. The module base sled shall be color-coded orange to designate Category 5e performance and shall include a universal label coded for T568A and T568B wiring schemes.

technical information

Category 5e/Class D channel and component performance:	Exceeds channel requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D standards at swept frequencies 1 to 100 MHz
	Exceeds component requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D standards at swept frequencies 1 to 100 MHz
FCC and ANSI compliance:	Meets all applicable ANSI/TIA-968-A requirements; contacts plated with 50 microinches of gold for superior performance
PoE compliance:	Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications
IEC compliance:	Meets IEC 60603-7
RoHS compliance:	Compliant
UL rated:	UL 1863 approved
Conductor termination range:	Wire cap compatible with 24 – 22 AWG solid cable with conductor insulation diameters of 0.035 in. to 0.048 in. and overall cable O.D. 0200 in. to 0.250 in.

key features and benefits

Clear termination cap	Enables easy troubleshooting and eases conductor alignment during termination
Modular	UTP jack modules snap in and out of all Mini-Com® Faceplates, Modular Patch Panels and Surface Mount Boxes for easy moves, adds and changes
True strain relief	Controls cable bend radius for long term installed performance
RJ45 interface	Industry standard interface provides a quick and easy plug and play connection to RJ45 patch cords; backwards compatible
Identification	Can be clearly identified with optional labels and icons for port identification
Termination tools (optional)	CJT-X termination tool ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability
Block out device (optional)	Provides a simple and secure method to control access to data ports while not in use

applications

Mini-Com® TX5e™ UTP Jack Modules are a component of the TX5500™ UTP Copper Cabling System. This end-to-end system provides Gigabit Ethernet performance with usable bandwidth beyond 100 MHz. With certified performance to the ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D Edition 2.1 standards, this system will support the following applications:

• Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet)

• 155 Mb/s ATM, 622 Mb/s ATM

• Token ring 4/16

• Voice/data systems

• Voice over Internet Protocol (VoIP)

TX5500™ UTP Copper Cabling System

Mini-Com® TX5e™ UTP Jack Module

Jack module:	CJ588IWY*

TX5500™ UTP Copper Cable

Plenum:	PUP5504***
Riser:	PUR5504***
LSZH:	PUL5504***
CM:	PUC5504***

TX5e™ UTP Patch Cords

CM (foot lengths):	UTPCH^Y
CM (meter lengths):	UTPCH^^MY
LSZH (meter lengths):	UTPCHL^^MY

Mini-Com® Angled Modular Patch Panels

24-port, 1 RU:	CPPLA24WBLY
48-port, 2 RU:	CPPLA48WBLY

Mini-Com® Flat Modular Patch Panels

24-port, 1 RU:	CPPL24WBLY
48-port, 2 RU:	CPPL48WBLY

For additional modular and punchdown patch panels, visit www.panduit.com.

Tools and Accessories

Jack module termination tool:	CJT-X
Wire snipping tool:	CWST
Wire snipping tool:	CJAST
Clear dust cap:	MDC-C
Block out device:	PSL-DCJB-^^^
Phone icons:	CIPIW-C+
Data icons:	CIDIW-C+

*To designate color other than IW (Off White), replace IW suffix with EI (Electric Ivory), IG (International Gray), WH (White), AW (Arctic White), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet).

**To designate color, add suffix BU (Blue) or WH (White). For additional cable colors, contact customer service.

^For lengths 1 to 20 feet (one foot increments) and 25, 30, 35, 40 feet, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet). For example, the part number for a blue 15-foot patch cord is UTPSP15BUY.

^^For lengths 1 to 10 meters (one meter increments) and 0.5, 1.5, 2.5, 15, 20, meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet). For example, the part number for a blue 15-meter patch cord is UTPSP15MBUY.

^^^To designate color other than Red, add suffix BL (Black), BU (Blue), YL (Yellow), GR (Green), OR (Orange), IW (Off White) or IG (International Gray) at end of the part number. 10/package.

+To designate color other than IW (Off White), replace IW with EI (Electric Ivory), IG (International Gray), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet) in the part number. 100/package.

Contact customer service for bulk packaged jack modules and patch cords.

Test Results

Performance Test	Test Method	100 MHz Typical Test Results (dB)
NEXT	Additional Transmission Performance Specifications for 4-pair 100Ohm Category 5e Cabling, ANSI/TIA-568-C.2	> 43
FEXT		> 35
Attenuation		< .40
Return Loss		> 20

Consult factory for cable brand specific channel test results

Mechanical Test	Test Method	Measurement	Typical Test Results
Normal Force	—	Load (grams)	> 100
Vibration	IEC 512-6d	Circuit Resistance Change (mOhms)	< 40
Durability	IEC 512-9a	Circuit Resistance Change (mOhms	< 40
Mating/Unmating	IEC 512-13b	Mating Force (N)	< 20
		Unmating Force (N)	< 20

Electrical Test	Test Method	Measurement	Typical Test Results
Low Level Circuit Resistance	IEC 512-2a	Resistance (mOhms)	< 40
Dielectric Withstand Voltage	IEC 512-4a	1000VAC, 1 minute	Passed
Insulation Resistance	IEC 512-3a	Resistance (MOhms)	> 1000

Environmental Test	Test Method	Measurement	Typical Test Results
Temperature Life	IEC 512-9b	Circuit Resistance Change (mOhms)	< 40
Humidity	IEC 512-11c	Circuit Resistance Change (mOhms)	< 40
Thermal Shock	IEC 512-11d	Circuit Resistance Change (mOhms)	< 40
Climatic Sequence	IEC 512-11a	Circuit Resistance Change (mOhms)	< 40
Flowing Mixed Gas Corrosion	IEC 512-11g	Circuit Resistance Change (mOhms)	< 40

Termination Cap

Module Housing

.72 [18.3]

.62 [15.9]

1.37 [34.8]
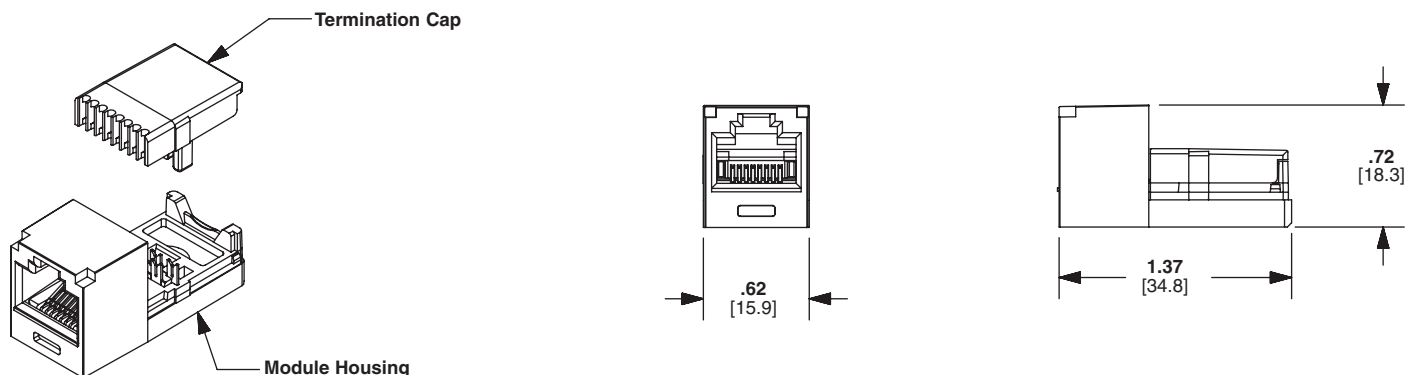
Dimensions are in inches. [Dimensions in brackets are metric].

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