

Keywerks CAT6A FTP Keystone Module (jacks)

Keywerks™ CAT6A FTP Keystone Modular Jacks provide outstanding performance in installation environments where alien crosstalk, EMI and RFI impairments are a concern. Precision engineered and manufactured, these FTP Modular Jacks utilize zinc-alloy housings and Wirewerks' unique 'termination cap' to protect against interference and noise coupling, and are fully compatible with all Keywerks FTP products as well as any other industry-standard FTP Keystone-format faceplates, patch panels and surface mount boxes.

Description

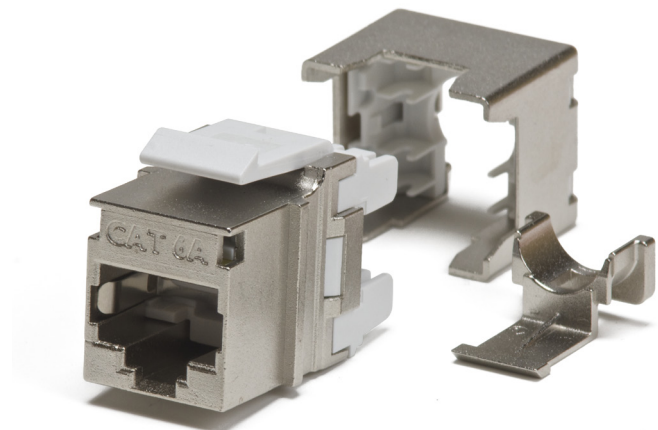
Keywerks™ CAT6A FTP Keystone Modular Jacks support IEEE 10GBASE-T 10 Gigabit Ethernet networking and are fully compliant with the CAT6A cabling specifications of TIA T568-C.2. These modular jacks offer a 180° IDC termination interface supporting both T568A and T568B wiring schemes and utilize angled termination towers to simplify pair-splitting and reduce installation time. The IDC contact blades are designed with a unique locking mechanism to improve wire retention for better installation and greater operational reliability. In combination with our Keywerks™ FastPunch™ tool (not included), these jacks may be terminated in one easy step, reducing installation time while improving installation quality and reliability.

Features and Benefits

- Compact design allows high-density mounting in floor-space critical environments
- Accepts 6 and 8 pin modular plugs for greater flexibility
- Backward compatibility with CAT5e and CAT6 connectors supports network migrations
- Compatible with T568A and T568B wiring schemes for greater flexibility
- Snap-in mechanism fits all Keystone-format openings for flexibility and cost savings
- Angled termination tower for easy pair-splitting and faster installation
- IDC contact blades with wire locking mechanism improves installation quality and operational reliability
- Installation Manual included
- Colored Dust Cap available

Applications

- Telecommunications Room
- Equipment Room
- Data Centers
- Work Area outlets
- Consolidation Point
- Cellular Tower Base Station



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Certification and Compliance

ANSI/TIA-568-C.2	Balanced Twisted-Pair Telecommunication Cabling and Components Standards.
ISO/IEC 11801	Generic Cabling for Customer Premises.
ANSI/TIA-968-A	Technical Requirements for Connection of Terminal Equipment to the telephone Network.
IEC 60603-7	Connectors for Electronic Equipment.
FCC 47 part 68	Connection of the Terminal Equipment to the Telephone Network.
UL 94	Tests for Flammability of Plastic Material for Parts in Devices and Appliances.
UL	Underwriters Labs (Bi-national Canada, US) Listed Communication Circuit Accessories
ETL Verified	To ANSI/TIA-568-C.2 with Applicable Electrical Transmission Characteristics.
RoHS	Directive on Restriction of Hazardous Substances.

Part Number

KW-CSA-45B

Description

Keywerks RJ45 CAT6A FTP Module, back termination, T568A/B

Packaging

Clear Poly bag: 1 unit per bag
1 Termination Cap
1 side clip
1 tie wrap
Instruction Manual



Colored Dustcap Available

Physical Characteristics

Parameter	Value
Housing Material	Zinc alloy
Contact Material RJ45	Phosphor Bronze alloy with 50µin Gold plating
Contact Material IDC	Phosphor Bronze alloy with 100µin Tin plating
Overall Dimensions	37.1 mm (1.46 in) x 16.3 mm (0.6 in) x 14.6 mm (0.5 in)



T568A/B wiring schemes

Mechanical Characteristics

Parameter	Value
Operating Temperature	-40° C (-40° F) ~ 60° C (140° F)
Storage Temperature	-40° C (-40° F) ~ 125° C (257° F)
Plug Retention	50 N (11 lbf) for 60 seconds
IDC Gauge Capacity	22~24 AWG solid conductors
Number of Insertions IDC	≥ 10 insertions
Mating Cycles RJ45	≥750 cycles



Blades' locking mechanism

Electrical Characteristics

Parameter	Value
Insulation Resistance	200 MΩ minimum
Dielectric Withstanding Voltage	1,000 V RMS at 60 Hz for 60 seconds
Current Rating	1.5 A maximum
Contact Resistance	1 mΩ maximum
Insertion Loss Worst Pair @ 500 MHz	0.45 dB
NEXT Worst Pair-to-Pair @ 500 MHz	34.0 dB
FEXT Worst Pair-to-Pair @ 500 MHz	29.1 dB
Return Loss @ 500 MHz	14.0 dB



Wires held in place

FTP modules are compatible with Wirewerks FastPunch Tool

KW-FPTOOL

