

KEYWERKS™ CAT6A UTP RJ45 MODULES

PDS-0153



DESCRIPTION

Keywerks™ CAT6A UTP RJ45 Modules offer a 180° IDC termination interface compatible with T568A and T568B wire schemes and support 10GBASE-T over CAT6A cabling as defined in TIA T568-C.2 and IEEE 802.3an. The IDC is equipped with angled termination towers to simplify pair splitting. The contact blades are designed with a locking mechanism to improve the wire retention during their insertion.

Keywerks CAT6A UTP RJ45 Modules are provided with our unique blackout dome technology that eliminates the unwanted effect of Alien crosstalk and provides a reliable strain relief that will guarantee the integrity of the connection in time. In combination with our Keywerks FastPunch tool (not included), these jacks can be terminated in only one step.

**FEATURES
and BENEFITS**

- Compact design for high density mounting
- Accept 6 and 8 position modular plug
- Backward compatible with CAT5e and CAT6 connectors
- Compatible with T568A and T568B wiring
- Snap-in mechanism
- Flush mount design
- Fits into any standard Keystone style opening
- Angled termination tower for easy pair splitting
- Contact blades with wire locking mechanism
- Installation manual included
- Available in 6 colors
- Dust cap available

APPLICATIONS

- Telecommunications room
- Equipment room
- Work area outlets
- Consolidation point

**ORDERING
INFORMATION**

Part Number	Description
KW-C6A-45B-WH	Keywerks RJ45 CAT6A module, back termination, T568A/B, white
KW-C6A-45B-BL	Keywerks RJ45 CAT6A module, back termination, T568A/B, blue
KW-C6A-45B-BK	Keywerks RJ45 CAT6A module, back termination, T568A/B, black
KW-C6A-45B-YL	Keywerks RJ45 CAT6A module, back termination, T568A/B, yellow
KW-C6A-45B-RD	Keywerks RJ45 CAT6A module, back termination, T568A/B, red
KW-C6A-45B-GN	Keywerks RJ45 CAT6A module, back termination, T568A/B, green
KW-C6ABULK45BBK	Keywerks RJ45 CAT6A Module, back termination, Bulk 25 Pack, Black
KW-C6ABULK45BBL	Keywerks RJ45 CAT6A Module, back termination, Bulk 25 Pack, Blue
KW-C6ABULK45BWH	Keywerks RJ45 CAT6A Module, back termination, Bulk 25 Pack, White

Other colors available upon request

PACKAGING

Description
clear poly bag, 1 unit per bag.

INCLUSION

Description
Instruction manual, 1 Blackout Dome retention cap.

PHYSICAL SPECIFICATIONS

Parameter	Value
Housing Material	High impact UL 94V-0 ABS thermoplastic
Contact Material RJ-45	Copper alloy with 50 micro inch gold over 100 micro inch Phosphorus bronze.
Contact Material IDC	Phosphorus bronze alloy with tin plating
Overall Dimensions	30.5 mm (1.2 in) x 16.3 mm (0.6 in) x 14.6 mm (0.5 in)

MECHANICAL SPECIFICATIONS

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 Insertion IDC	≥ 10 insertions
Mating Cycles RJ-45	≥1000 cycles

ELECTRICAL SPECIFICATIONS

Parameter	Value
Insulation Resistance	200 MΩ minimum
Dielectric Withstanding Voltage	1,000 V RMS at 60 Hz for 1 minute
Current Rating	1.5 A maximum
Contact Resistance	20 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

STANDARDS COMPLIANCE

ANSI/TIA-568-C.2

Balanced Twisted-Pair Telecommunications 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 part 68

Connection of Terminal Equipment to the Public Switched Telephone Network.

UL 94

Tests for Flammability of Plastic Material for Parts in Devices and Appliances.

cULus

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



Rear view



Blackout Dome
technology
(RFI, EMI Protection Shield)