

KEYWERKS™ CAT6 UTP RJ45 MODULES

PDS-0108



DESCRIPTION

Keywerks™ CAT6 UTP RJ45 Modules offer a 180° IDC termination interface compatible with T568A and T568B wire scheme and support 10GBASE-T over CAT6 cabling as defined in TIA TSB-155 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 CAT6 UTP RJ45 Modules are provided with a clear latching stuffer cap that provides a reliable strain relief during wire management. In combination with our Keywerks FastPunch tool (not included), these modules can be terminated in only one step.

**FEATURES
and BENEFITS**

- Compact design for high density mounting
- Support 10GBASE-T over CAT6 cabling
- Accept 6 and 8 position modular plug
- Backward compatible with CAT5e, CAT5, and CAT3 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 seven colors

APPLICATIONS

- Telecommunications room
- Equipment room
- Work area outlets
- Consolidation point
- Cellular tower base station

**ORDERING
INFORMATION**

Part Number	Description
KW-CC645B-WH	Keywerks RJ45 CAT6 module, back termination, white
KW-CC645B-BL	Keywerks RJ45 CAT6 module, back termination, blue
KW-CC645B-BK	Keywerks RJ45 CAT6 module, back termination, black
KW-CC645B-YL	Keywerks RJ45 CAT6 module, back termination, yellow
KW-CC645B-RD	Keywerks RJ45 CAT6 module, back termination, red
KW-CC645B-GN	Keywerks RJ45 CAT6 module, back termination, green
KW-CC645B-AL	Keywerks RJ45 CAT6 module, back termination, almond
KW-CC6BULK45BBK	Keywerks RJ45 CAT6 Module, back termination, Bulk 25 Pack, Black
KW-CC6BULK45BBL	Keywerks RJ45 CAT6 Module, back termination, Bulk 25 Pack, Blue
KW-CC6BULK45BWH	Keywerks RJ45 CAT6 Module, back termination, Bulk 25 Pack, White

Other colors available upon request

PACKAGING

Description
Clear poly bag, 1 unit per bag. Instruction manual, clear stuffer cap.

INCLUSION

Description
Instruction manual, clear stuffer 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 nickel
Contact Material IDC	Copper alloy with nickel 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	≥750 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 per Contact	1 MΩ
Insertion Loss Worst Pair @ 250 MHz	0.32 dB
NEXT Worst Pair-to-Pair @ 250 MHz	46.0 dB
FEXT Worst Pair-to-Pair @ 250 MHz	35.1 dB
Return Loss @ 250 MHz	20.0 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