

Inline Couplers

Description

Keywerks™ CAT6A, CAT6 and CAT5e Inline Couplers allow for direct 'feed-through' coupling of cables and cords terminated with RJ45 jacks. Keywerks™ Inline Couplers facilitate the deployment of 'pre-terminated' cabling solutions in a wide variety of environments including Data Centers, Healthcare facilities, commercial buildings and trade-show (temporary) installations. Keywerks™ Inline Couplers feature an industry-standard Keystone footprint and are fully compatible with all Keywerks™ modular patch panels, adapters and faceplates as well as other manufacturers' Keystone compliant products.

Keywerks™ Inline Couplers are extremely well-balanced, offering outstanding transmission performance in both short and long channel configurations.

Features and Benefits

RJ45-to-RJ45 inline coupling allows use of pre-terminated cables for fast, easy cabling installation and repair

Compatibility with Keywerks™ products and other industry-standard Keystone format products provides flexibility in new and retro-fit installations

Reusable Inline Coupler reduces waste and supports 'Green Building' objectives

'Plug and Play' for RJ45 connectors reduces installation time and labor costs, with reduced field testing and troubleshooting

Well balanced design provides excellent transmission performance in short and long channels required in Data Center environments

Applications

Keywerks CAT6A Inline Coupler: meets TIA-568-C.2 Category 6A and supports IEEE 10/100/1000/10GBASE-T Ethernet

Keywerks CAT6 Inline Coupler: meets TIA-568-C.2 Category 6 and supports IEEE 10/100/1000BASE-T Ethernet

Keywerks CAT5E Inline Coupler: meets TIA-568-C.2 Category 5e and supports IEEE 10/100/1000BASE-T Ethernet

Power over the Ethernet (PoE, PoE+)

Digital Video

Broadband and baseband analog Video

Video Conferencing/imaging



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
RoHS	Directive on Restriction of Hazardous Substances

Part Number	Description
KW-C6ACFFBK	Keywerks CAT6A UTP 180° inline coupler, T568A/B, black
KW-CC6CFFBK	Keywerks CAT6 UTP 180° inline coupler, T568A/B, black
KW-C5ECFFBK	Keywerks CAT5e UTP 180° inline coupler, T568A/B, black

Packaging

Clear Poly bag: 1 unit per bag

Physical Characteristics

Parameter	Value
Housing Material	High Impact UL 94 V-0 ABS thermoplastic
Contact Material	Phosphor Bronze Alloy
Contact plating Material	50 micro inch Gold over 100 micro inch Nickel
Overall Dimensions	30.5 mm (1.2 in) x 16.3 mm (0.6 in) x 14.6 mm (0.5 in)

Mechanical Characteristics

Parameter	Value
Operation Temp	-10°C (14°F) ~ 60°C (140°F)
Plug Retention	50 N (11lbf) for 60 seconds
Mating Cycles	≥750 Cycles

Electrical Characteristics

Parameter	Value
Insulation Resistance	≥500MΩ at 100 V DC
Dielectric Withstanding Voltage	1000 V DC or AC at 60 Hz for 60 seconds
Current Resistance	≤20mΩ maximum
Current Rating	1.75 Amp at 20°C (68°F)