

F-Type Keystone Connector Modules

Signamax Connectivity Systems offers a wide range of keystone connector modules designed to create a customized multimedia solution in any single or double gang faceplate or surface mount box. Applications include optical fiber systems, high-end audio/video systems, satellite systems, CTV, CCTV, DVD, and VCR, for home, classroom, and office environments.

F-type 75-Ohm radio-frequency connectors are used for connecting Series 59, Series 6, and Series 11 coaxial cable to video, CATV, and security cameras. The most widely used connector for residential cable service. F-type connectors do not have center pins. Instead, they use the solid center conductor of the cable as a center pin. For this reason, F-type connectors cannot be used with cables that have a stranded center conductor. Usage of the cable center conductor instead of a pin makes F-type comparatively inexpensive.

F-Type feed-thru modules are compatible with all Signamax keystone panels, faceplates and surface-mount boxes. Connectors are 75 Ohm and rated for 1- or 3-GHz performance.



KEY FEATURES

- 1 and 3 GHz versions available
- 75 Ohm
- Bronze shell and terminal
- 3/8-32 thread
- Compatible with all Signamax keystone panels, faceplates and surface-mount boxes
- Easy connection in the field

ORDERING INFORMATION

F-Type Connector Modules

Part Number	Description
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CMK-F F-Type Keystone Connector Module, 1 GHz

CMK-F3 F-Type Keystone Connector Module, 3 GHz

Standard color:

Light Ivory

For other colors add following to P/N: **-BK** (Black) **-GY** (Gray) **-WH** (White)

RELATED PRODUCTS

Product/Product Group	Spec Sheet #
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Keystone Faceplate Adapters and Mounting Hardware _____	PSS.KFA-MH (A-AUG-07)
Keystone Plastic Faceplates _____	PSS.KPF (A-AUG-07)
Keystone Stainless Steel Faceplates _____	PSS.KSSF (A-AUG-07)
Modular Furniture Keystone Adapters _____	PSS.MFKA (A-AUG-07)
Keystone Surface Mount Multimedia Boxes _____	PSS.KSM-MMB (A-FEB-08)
Unloaded High Density Multimedia Panels _____	PSS.U-HD-MM-PP (A-OCT-08)
Standard Density Unloaded Multimedia Panels _____	NA
Multimedia Patch Panels _____	NA

SPECIFICATIONS

F-Type Keystone Connector Modules

SPECIFICATIONS

- TRANSMISSION PERFORMANCE**

CMK-F: up to 1 MHz
CMK-F3: up to 3 MHz

- TRANSMISSION MEDIA**

Coaxial, 75 Ohm (RG6/U, RG-58/U)

- WIRE GAUGE**

18–22 AWG (0.64 – 1.07 mm) solid

- ELECTRICAL**

Frequency range:

CMK-F: 1 GHz DC
CMK-F3: 3 GHz DC

Impedance:

75 Ohm

Insertion loss:

< 0.3 dB at 1 GHz

CMK-F: < 0.3 dB

CMK-F3: < 0.2 dB

Return loss:

CMK-F3: > 30 dB

Contact resistance:

< 4 mOhm

Insulation resistance:

min 500 MOhm at 100 V_{dc}

Inductance:

min 500 nH

Capacitance:

min 2 x 1.5 nF

Operational voltage:

250 V_{dc}

Test voltage:

750 V_{dc} for 1 min

Peak voltage rating:

500 V

Dielectric withstanding voltage:

1,500 V_{rms}

Feed-through current:

max 10 A

- CONSTRUCTION**

Housing: high impact thermoplastic, UL94V-0 fire retardant
Shell: brass, nickel plated

Seizing pin:

CMK-F: bronze alloy, tin plated
CMK-F3: 360-degree beryllium bronze, gold plated

Insulation:

CMK-F: low-density polyethylene (LDPE)
CMK-F3: nylon

Nut:

iron plated with nickel over copper

- MECHANICAL**

Mating cycles: min 500

Holding force: > 160 g (initial)

> 120 g (after insertion)

Interface dimensions: similar to MIL-C-39012

Housing shall support 2.2 kg force minimum applied from either direction

- FOOTPRINT**

Standard keystone footprint

- MOUNTING DIMENSIONS**

D 30.0 mm H 19.7 mm W 16.5 mm

D 1.18 in H 0.77 in W 0.65 in

- ENVIRONMENTAL CONDITIONS**

Storage: -40°C – +70°C (-40°F – +158°F)

Operation: -10°C – +60°C (+14°F – +140°F)

RH (operation): max non-condensing 93%

Vibration, shock, and temperature cycling in accordance with MIL-STD-1344

- COMPLIANCE**

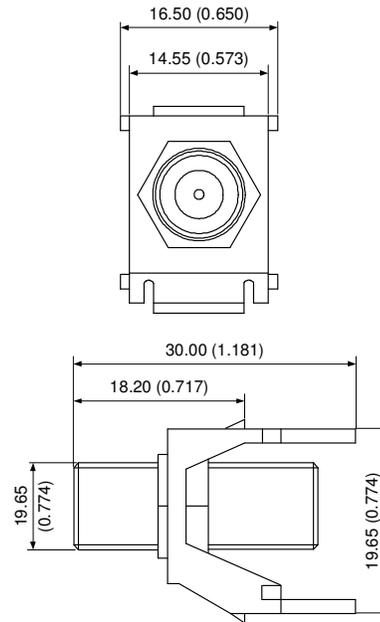
ANSI/SCTE 02, IEC 60169-24, UL 94V-0

- APPLICATIONS**

Over-the-air terrestrial television, cable television, satellite television, cable modems

- WARRANTY**

5-year limited component warranty



SPECIFICATIONS