

F-Type Keystone Connector Modules

KEY FEATURES

- 1 and 3 GHz versions available
- 75 Ohm
- Bronze shell and terminal
- 3/8-32 thread
- Easy-to-read T568A/B wiring scheme color-coded label
- Compatible with all Signamax keystone panels, faceplates and surface-mount boxes
- Easy connection in the field



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.

F-TYPE CONNECTOR MODULES

PART NUMBER	DESCRIPTION
CMK-F	F-Type Keystone Connector Module, 1 GHz, Light Ivory
CMK-F3	F-Type Keystone Connector Module, 3 GHz, Light Ivory

For other colors add the following to P/N: WH GY BK

P/N Example: CMK-F3-WH — F-Type Keystone Connector Module, 3 GHz, White

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 Vdc
Inductance : min 500 nH
Capacitance : min 2 x 1.5 nF
Operational voltage : 250 Vdc
Test voltage : 750 Vdc for 1 min
Peak voltage rating : 500 V
Dielectric withstanding voltage : 1,500 Vrms
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
Interface Dimensions : > 120 g (after insertion)

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 Temperature : -40°C – +70°C (-40°F – +158°F)
Operating Temperature : -10°C – +60°C (+14°F – +140°F)
Operating RH : 93% Max (non-condensing)

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

