

F-Type Keystone Connector Modules

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



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

Standard color: IV

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

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

CONSTRUCTION

Housing: high impact thermoplastic, UL94V-0 fire retardant
Shell: brass, nickel plated
Seizing pin: bronze alloy, tin plated
CMK-F: 360-degree beryllium bronze, gold plated
CMK-F3: low-density polyethylene (LDPE)
Insulation: nylon
CMK-F: iron plated with nickel over copper
CMK-F3:
Nut:

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 > 30 dB
Return loss: < 4 mOhm
CMK-F3: min 500 MOhm at 100 Vdc
Contact resistance: min 500 nH
Insulation resistance: min 2 x 1.5 nF
Inductance: 250 Vdc
Capacitance: 750 Vdc for 1 min
Operational voltage: 500 V
Test voltage: 1,500 Vrms
Peak voltage rating: max 10 A
Dielectric withstanding voltage:
Feed-through current:

MECHANICAL

Mating cycles: min 500
Holding force: > 160 g (initial)
Interface dimensions: > 120 g (after insertion)
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

