

F-Type Connector Modules



75-Ohm F-type 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.

- 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

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 AWG–22 AWG (0.64 mm–1.07 mm) solid

ELECTRICAL

Frequency range:

CMK-F: 1 GHz DC

CMK-F3: 3 GHz DC

Characteristic 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 × 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 g (initial)

>120 g (after insertion)

Interface dimensions: similar to MIL-C-39012

Housing shall support 2.2 kgf 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 to +70 °C (-40 °F to +158 °F)

Operation: -10 °C to +60 °C (+14 °F to +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

Download Specifications (PDF 97Kb) Revised 05.01.2009

Download Drawing (PDF 66Kb) Revised 05.01.2009

Part Number	Description
CMK-F	F-Type Keystone Connector Module, 1 GHz, Light Ivory
CMK-F-WH	F-Type Keystone Connector Module, 1 GHz, White
CMK-F-DI	F-Type Keystone Connector Module, 1 GHz, Dark Ivory
CMK-F-GY	F-Type Keystone Connector Module, 1 GHz, Gray
CMK-F-BK	F-Type Keystone Connector Module, 1 GHz, Black

Part Number	Description
CMK-F3	F-Type Keystone Connector Module, 3 GHz, Light Ivory
CMK-F3-WH	F-Type Keystone Connector Module, 3 GHz, White
CMK-F3-DI	F-Type Keystone Connector Module, 3 GHz, Dark Ivory
CMK-F3-GY	F-Type Keystone Connector Module, 3 GHz, Gray
CMK-F3-BK	F-Type Keystone Connector Module, 3 GHz, Black

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