

Electric In-Floor Heat



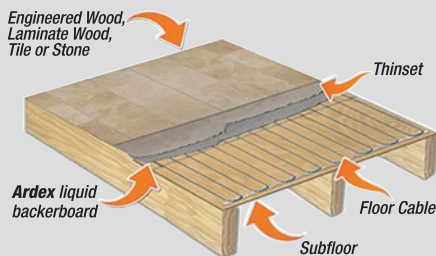
Electric In-Floor Heating Systems

King's In-Floor Heating systems provide the affordable luxury of comfort through radiant heating. Ideal for kitchens & bathrooms, in-floor heating is the easiest way to add warmth to your home. Whether using the FC Cable series or FCM Mat series, you will be completely satisfied with the results.

FCM Series Mats offer the easiest solution for in-floor heating, providing pre-fabricated mats with 3" spacing that can be rolled out quickly before final installation of the engineered wood, laminate wood, tile or stone floor. The Mat series is specifically designed for the homeowner or contractor that wants an easy and fast installation. The mat is easily cut and flipped to conform to any custom layout, refer to example below. Mats are sold separately in pre-packaged kits, which can include a thermostat, cable alarm and floor sensor.

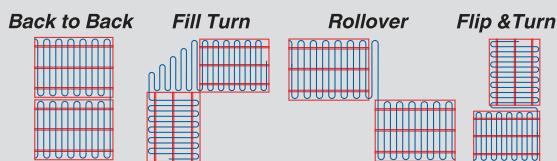
FC Series Cable offers the flexibility to lay out and space the cable specific to an individual application. King's unique Fast-Set strapping system makes it easy to design a custom layout to maximize the coverage area. Simply install the strapping, lace the cable in a serpentine pattern as needed to work around fixtures and cabinets, making a precise in-floor heating solution. Cable is sold with strapping and in pre-packaged kits, which can include a thermostat, cable alarm and floor sensor.

FC Installation

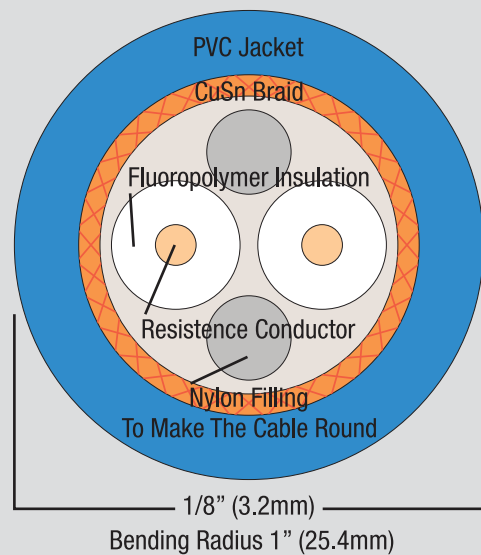


When using In-floor cable for engineered floors & laminated wood, check with your flooring manufacturer for compatibility.

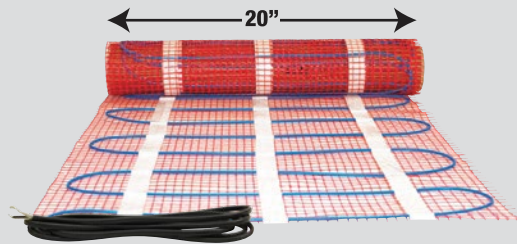
Easy to Install FCM Examples



FC & FCM Cable Constructions



Electric In-Floor Heating Mats



Model Code:

FCM 1 -10
A B C

A: Floor Mat
B: 12 - 120V
24 - 240V
C: Coverage Area in Sq/Ft

In-Floor Heating Mat provides comfort and well-being through radiant heating. Ideal for kitchens & bathrooms.

FCM Electric In-Floor Heating Mat Features

- Provides everything needed for easy installation
- 12 Watts/Sq. Ft., available in 120V and 240V
- Professional grade quality components
- 10 Ft. Cold Lead
- Tefzel® Insulation, PVC Jacket
- No EMF, twin conductor
- Pre-sized kits range from 10 to 160 square feet
- For use with engineered wood, laminate wood, tile, stone floors
- Phone & email support, online video for easy installation steps
- Twenty year limited warranty
- Low memory design, cable stays flat, adhesive backing



120V

| MODEL | UPC | VOLTS | MAT LENGTH | HEATED AREA (20" WIDE) | WATTS | AMPS |
|----------|-------|-------|------------|------------------------|-------|------|
| FCM1-10 | 40200 | 120 | 6.1' | 10 SQ. FT. | 120 | 1.0 |
| FCM1-15 | 40201 | 120 | 9.1' | 15 SQ. FT. | 180 | 1.5 |
| FCM1-20 | 40202 | 120 | 12.2' | 20 SQ. FT. | 240 | 2.0 |
| FCM1-25 | 40203 | 120 | 15.2' | 25 SQ. FT. | 300 | 2.5 |
| FCM1-30 | 40204 | 120 | 18.3' | 30 SQ. FT. | 360 | 3.0 |
| FCM1-35 | 40205 | 120 | 21.3' | 35 SQ. FT. | 420 | 3.5 |
| FCM1-40 | 40206 | 120 | 24.4' | 40 SQ. FT. | 480 | 4.0 |
| FCM1-50 | 40207 | 120 | 30.5' | 50 SQ. FT. | 600 | 5.0 |
| FCM1-60 | 40208 | 120 | 36.6' | 60 SQ. FT. | 720 | 6.0 |
| FCM1-70 | 40209 | 120 | 42.7' | 70 SQ. FT. | 840 | 7.0 |
| FCM1-80 | 40210 | 120 | 48.8' | 80 SQ. FT. | 960 | 8.0 |
| FCM1-90 | 40211 | 120 | 54.9' | 90 SQ. FT. | 1080 | 9.0 |
| FCM1-100 | 40212 | 120 | 61.0' | 100 SQ. FT. | 1200 | 10.0 |

240V

| MODEL | UPC | VOLTS | MAT LENGTH | HEATED AREA (20" WIDE) | WATTS | AMPS |
|----------|-------|-------|------------|------------------------|-------|------|
| FCM2-20 | 40213 | 240 | 12.2' | 20 SQ. FT. | 240 | 1.0 |
| FCM2-25 | 40214 | 240 | 15.2' | 25 SQ. FT. | 300 | 1.3 |
| FCM2-30 | 40215 | 240 | 18.3' | 30 SQ. FT. | 360 | 1.5 |
| FCM2-35 | 40216 | 240 | 21.3' | 35 SQ. FT. | 420 | 1.8 |
| FCM2-40 | 40217 | 240 | 24.4' | 40 SQ. FT. | 480 | 2.0 |
| FCM2-50 | 40218 | 240 | 30.5' | 50 SQ. FT. | 600 | 2.5 |
| FCM2-60 | 40219 | 240 | 36.6' | 60 SQ. FT. | 720 | 3.0 |
| FCM2-70 | 40220 | 240 | 42.7' | 70 SQ. FT. | 840 | 3.5 |
| FCM2-80 | 40221 | 240 | 48.8' | 80 SQ. FT. | 960 | 4.0 |
| FCM2-90 | 40222 | 240 | 54.9' | 90 SQ. FT. | 1080 | 4.5 |
| FCM2-100 | 40223 | 240 | 61.0' | 100 SQ. FT. | 1200 | 5.0 |
| FCM2-110 | 40224 | 240 | 67.1' | 110 SQ. FT. | 1320 | 5.5 |
| FCM2-120 | 40225 | 240 | 73.2' | 120 SQ. FT. | 1440 | 6.0 |
| FCM2-145 | 40226 | 240 | 88.4' | 145 SQ. FT. | 1740 | 7.3 |
| FCM2-160 | 40227 | 240 | 97.5' | 160 SQ. FT. | 1920 | 8.0 |

| MODEL | UPC | ACCESSORIES |
|----------|-------|---|
| UDG-4999 | 33165 | Electronic Programmable Floor Stat with Floor Sensor, 15 Amp, 5mA120/208/240V, GFCI |
| FCS11 | 40088 | Heating Cable Monitor |

See FC/FCM Accessories page 168 for complete listing of accessories



Heating Cable Monitor UDG-4999 Programmable



Floor Sensor Included with Thermostat

Thermostats

In-Floor Heating (3-3.7W/Ft.) & Thermal Storage (6W/Ft.)



**KING
USG-4000
Slave**



**KING
UDG-4999
Programmable**



**OJ
UWG4-4999
WIFI Programmable**



**HONEYWELL/AUBE
TH115-AF-GA
Programmable**

King electronic thermostats are designed to achieve maximum comfort from King cable heating systems. Common feature to all models include:

- Three choices of temperature control: ambient air temperature, floor temperature or ambient air with floor limits.
- Advanced microprocessor optimizes performance by proportionally controlling the wattage to the cable saving energy and maintaining very accurate temperature control within $\pm 1^{\circ}\text{F}$, 0.5°C .
- Designed for maximum safety, they all include a ground-fault circuit interrupter (GFCI).
- A single touch activates the backlight display indicating the current set point.
- They are multi-volt and can be installed on 120, 208 and 240 volt circuits.

| MODEL | UPC | DESCRIPTION |
|-------------|-------|---|
| UDG-4999 | 33165 | Electronic Programmable Floor Stat, 15 Amp, 5mA120/208/240V, GFCI |
| USG-4000 | 33166 | King Recommended Slave Unit, 15 Amp, 5mA 120/208/240V, GFCI |
| UWG4-4999 | 42476 | OJ Microline WIFI Touch Thermostat, 15A, 5mA, 120/240V, GFCI |
| TH115-AF-GA | 38983 | Honeywell/Aube Electronic Programmable, 15 Amp, 5mA, 120/208/240V, GFCI |

** Must use one F912GFCI slave unit to switch each heating load zone (15A per zone). Must be programmed and controlled by thermostat models F802GFCI or F902GCI.

In-Floor Heating Accessories



**FCS1 Cable Strapping
(Included with Cable)**
For Use with FC Model Only.



**FCS13
(Repair Kit)**



**F8SENSOR
(King)**



**AC112-01/U
(Honeywell)**



**FCS11
(Cable Alarm)**

| MODEL | UPC | DESCRIPTION |
|------------|-------|---|
| FCS11 | 40088 | Heating Cable Monitor |
| FCS13 | 40092 | Heating Cable Repair Kit |
| FCS1 | 40096 | FC Cable Strapping |
| AC112-01/U | 40094 | Replacement Floor Sensor for Honeywell/Aube Thermostats |
| F8SENSOR | 30761 | Replacement Floor Sensor for King F902 GFCI Thermostats |

