

# Electric In-Floor Heat



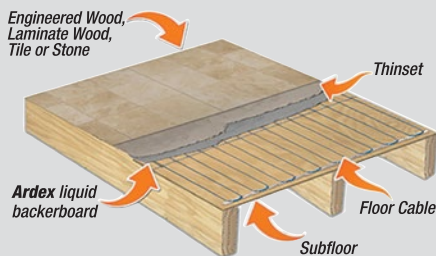
## Electric In-Floor Heating Systems

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.

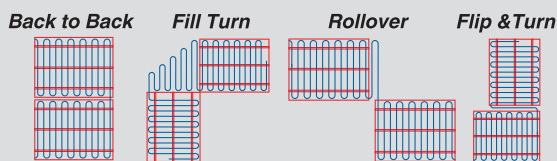
FC Series Cable offers the flexibility to lay out and space the cable specific to an individual application. King's unique Fast-Set strapping system makes it easy to design a custom layout to maximize the coverage area. Simply install the strapping, lace the cable in a serpentine pattern as needed to 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

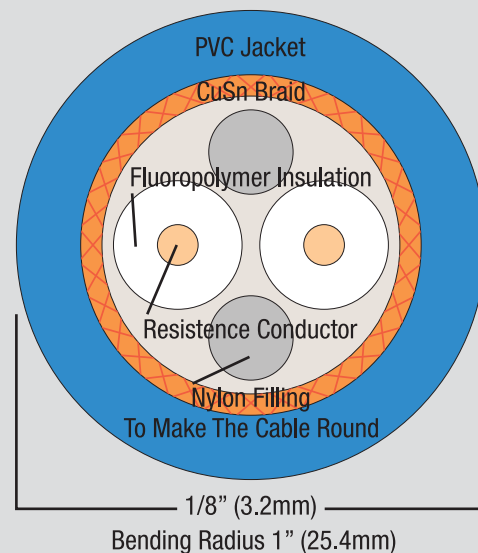


When using In-floor cable for engineered floors & laminated wood, check with your flooring manufacturer for compatibility.

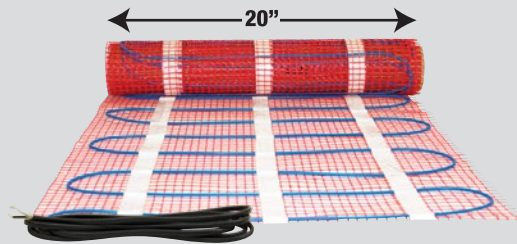
### Easy to Install FCM Examples



### 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
FCM1-25	40203	120	15.2'	25 SQ. FT.	300	2.5
FCM1-30	40204	120	18.3'	30 SQ. FT.	360	3.0
FCM1-50	40207	120	30.5'	50 SQ. FT.	600	5.0
FCM1-60	40208	120	36.6'	60 SQ. FT.	720	6.0
FFCM1-80	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
FCM2-30	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, 5mAA120/208/240V, GFCI
FCS11	40088	Heating Cable Monitor

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



**Heating Cable Monitor** UDG-4999 Programmable



UDG-4999 Programmable



**Floor Sensor**  
Included with Thermostat

# Thermostats

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



**KING  
F912GFCI  
Slave**



**KING  
F902GFCI  
Programmable**



**OJ  
UWG4-4999  
WIFI Programmable**



**WARMUP  
4IE04-BLACK/WHITE  
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  $\pm 1^{\circ}\text{F}$ ,  $0.5^{\circ}\text{C}$ .
- 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.

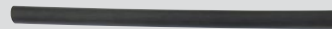
MODEL	UPC	DESCRIPTION
F912GFCI**	30759	King Recommended Slave Unit, 15 Amp, 5mA 120/208/240V, GFCI
F902GFCI**	30758	Electronic Programmable Floor Stat, 15 Amp, 5mA 120/208/240V, GFCI
UWG4-4999	42476	OJ Microline WIFI Touch Thermostat, 15A, 5mA, 120/240V, GFCI
4IE04-BL	42477	WARMUP Microline WIFI Smart Thermostat, 15A, 5mA, 120/240V, GFCI-Black
4IE04-WH	42478	WARMUP Microline WIFI Smart Thermostat, 15A, 5mA, 120/240V, GFCI-White
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 F902GFCI.

## 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

