

## For Residential and Commercial Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# INFLOOR® Electric Cable

## 120 and 240 Voltages

Infloor Electric Cable is a series resistance heating cable assembly installed over plywood, tile backerboard, or concrete slab (according to ANSI or TCNA guidelines), and then embedded in 3/8" or greater self-leveling or polymer-modified thin-set mortar. Infloor Electric Cable is approved for installation in shower applications.

### Specifications

Supply Voltage	120V, 1-phase 240V, 1-phase
Amp Draw	120V: 1 amp per 10 sf. 240V: 1 amp per 20 sf.
Wire Spacing	2" o.c. 2-1/2" o.c. 3" o.c.
Maximum Allowable Temperature	194°F (90°C) Continuously
EMF	Less than 1 milligauss
Heating Elements	Oxygen-free copper or nickel-copper
Insulation	ETFE Fluoropolymer
Ground Braid	Stainless Steel
Minimum Allowable Bend Radius	1/2"

Application Parameters		√	
Watt Density	2" oc	15 W/sf	
	2-1/2" oc	12 W/sf	
	3" oc	10 W/sf	
Minimum Polymer-modified Thinset	3/8"		
Allowable Substrate	Cement backer board over wood subfloor		
	Polymer-modified setting bed over wood subfloor		
	Polymer-modified setting bed over concrete slab		
	Thin slab/self-leveling concrete over wood subfloor		
	Thin slab/self-leveling concrete over concrete slab		
Allowable Floor Coverings	Tile/Stone		
	Carpet		
	Hardwood		

\* Most anti-fracture membranes are approved for use with Infloor Electric Cable. Contact manufacturer for details on specific products.

### ⚠ CAUTION

This Engineering Sheet is not intended to provide full installation instructions and safety information. In order to avoid property damage or injury, please refer to the complete installation manual and product safety information provided with the product.



Infloor Electric Cable is available in various lengths with voltage options of 120 or 240 vac.

### Installation Parameters

- Measure and certify the correct wire resistance (ohms) value for the heating cables, record these readings in the chart provided in the installation manual.
- Use of manufacturer's alarm meter (LoudMouth™ meter) is recommended during installation.
- Clean the subfloor.
- Secure sections of the CableStrap to the floor.
- Weave the heating cable across the floor area, fastening it to the strap. Distance between heating cables may be varied on-site to fit requirements and should average 2", 2.5", or 3" on-center.
- Install the floor sensor in accordance with installation manual.
- Install floor coverings as detailed in installation manual.



UL Listed for U.S. under UL Standard 1673.  
Listing file number E112190.

**ATTENTION:** Never cut the heating cable or damage it in any way. Use only the attachment methods as described in the Installation Manual for Infloor Electric Cable as other methods may damage the heating element.

**INFLOOR**  
HEATING SYSTEMS

Floor Heating & Snow Melting

Infloor product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Infloor Technical Service. Infloor reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Infloor products previously or subsequently sold.

## Infloor Electric Cable Application Examples



**Infloor Electric Cable over wood frame floor with backer board**



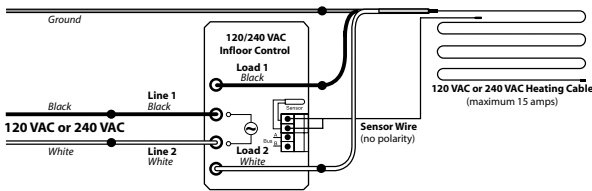
**Infloor Electric Cable over wood frame floor with double plywood**



**Infloor Electric Cable over concrete slab.**

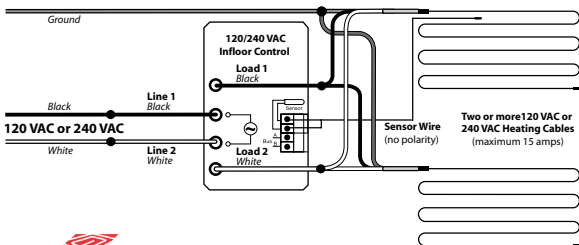
### Electrical Wiring Diagram for Single Cable with Infloor Control (120/240VAC)

Dedicated 120 or 240VAC, 20-amp (maximum) circuit.



### Electrical Wiring Diagram for Multiple Cable with Infloor Control (120/240VAC)

Dedicated 120 or 240VAC, 20-amp (maximum) circuit.



## Infloor Electric Cable Sizes

### 120 VAC Heating Cable Spools

√ Application Parameters						
	Order No.	Total sq.ft. at 2" o.c. 15 W/q.ft.	Total sq.ft. at 2.5" o.c. 12 W/q.ft.	Total sq.ft. at 3" o.c. 10 W/q.ft.	Wire Length (feet)	Amp Draw
	38600	8	10	12	47	1.0
	38602	12	15	18	71	1.5
	38602	16	20	24	94	2.0
	38603	20	25	30	118	2.5
	38604	24	30	36	141	3.0
	38605	18	35	42	165	3.5
	38606	32	40	48	188	4.0
	38607	36	45	54	212	4.5
	38608	40	50	60	235	5.0
	38609	48	60	72	282	6.0
	38610	56	70	84	329	7.0
	38611	64	80	96	376	8.0
	38612	72	90	108	423	9.0
	38613	80	100	120	470	10.0

### 240 VAC Heating Cable Spools

√ Application Parameters						
	Order No.	Total sq.ft. at 2" o.c. 15 W/q.ft.	Total sq.ft. at 2.5" o.c. 12 W/q.ft.	Total sq.ft. at 3" o.c. 10 W/q.ft.	Wire Length (feet)	Amp Draw
	38700	16	20	24	94	1.0
	38701	24	30	36	142	1.5
	38702	32	40	48	188	2.0
	38703	40	50	60	236	2.5
	38704	48	60	72	282	3.0
	38705	56	70	84	330	3.5
	38706	64	80	96	376	4.0
	38707	72	90	108	424	4.5
	38708	80	100	120	470	5.0
	38709	96	120	144	564	6.0
	38710	112	140	168	658	7.0
	38711	128	160	192	752	8.0
	38712	144	180	216	846	9.0
	38713	160	200	240	940	10.0



Floor Heating & Snow Melting

Buena Vista, CO • Tel. (800) 608-0562 • Fax: (719) 395-3555 • www.infloor.com