



**COMFORT YOU DESERVE**

## nVent NUHEAT Cable

The highest performing heating cable system  
with maximum on-site flexibility

  
**nvent**

**NUHEAT**

# Maximum Versatility

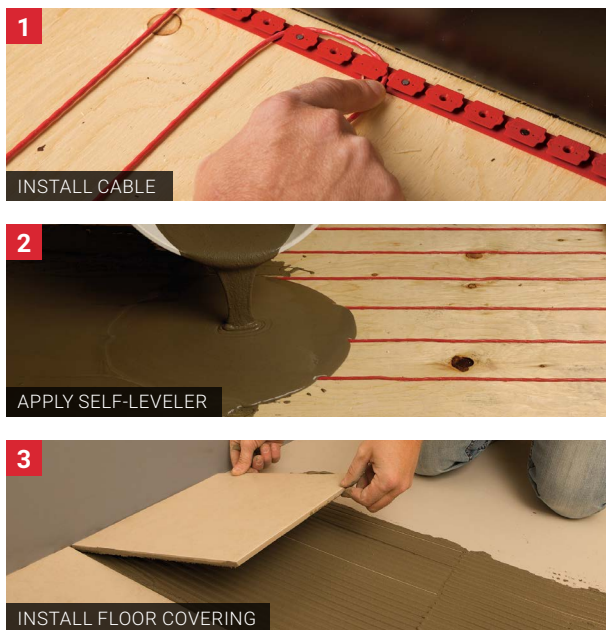


nVent NUHEAT Cable combines premium quality, flexible spacing/output, and three different installation methods for maximum versatility.

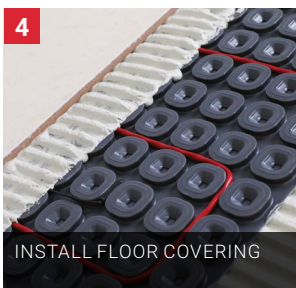
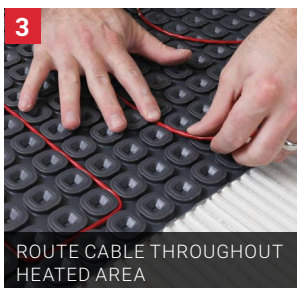
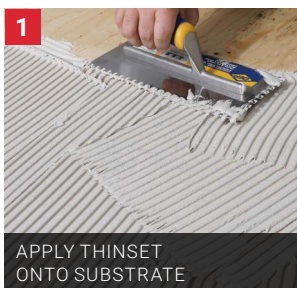
nVent NUHEAT Cable is the ideal choice when on-site adjustments are required. Install with the included Cable Guides, nVent NUHEAT Membrane, or the new nVent NUHEAT Peel & Stick Membrane.

Visit [nVent.com/NUHEAT](https://www.nVent.com/NUHEAT) to find a distributor near you.

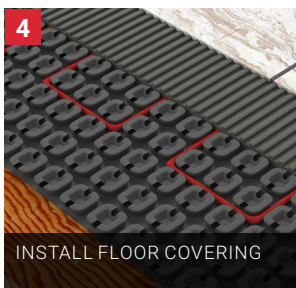
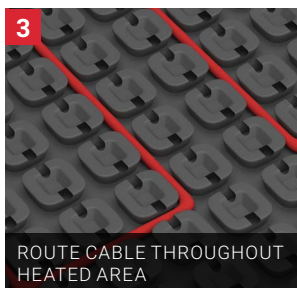
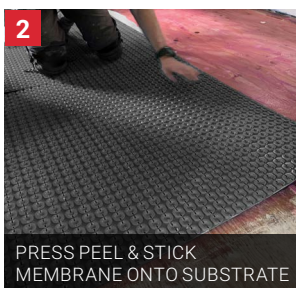
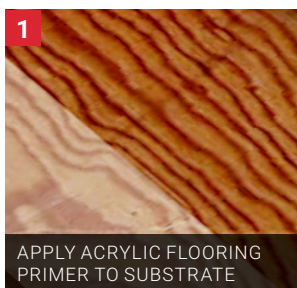
## CABLE INSTALLATION



## MEMBRANE INSTALLATION



## PEEL & STICK MEMBRANE INSTALLATION



### NOTES:

- Cable resistance must be tested before, during and after installation for warranty coverage
- All wiring connections must be completed by a certified electrician

# NVENT NUHEAT CABLE FAST FACTS

- Heats tile, stone, laminate, engineered wood, or luxury vinyl floors
- Zero EMF (electromagnetic field) cable design
- Over 30 kit sizes; largest 120 V covers 120 ft<sup>2</sup> and largest 240 V covers 240 ft<sup>2</sup>
- Available in 120 V and 240 V
- Spacing options for 10, 12, or 15 W/ft<sup>2</sup>
- Thin cold lead and connection joint
- Easy-to-use cable guides included
- Approved for wet areas (shower floors/benches, steam rooms, etc.)
- Halfway marker on heating cable for easy layout planning
- Industry leading 25-Year Total Care warranty
- nVent NUHEAT Cable can be installed directly into the nVent NUHEAT Membrane in areas where an uncoupling feature is desired

## FAQs

**Q: CAN NVENT NUHEAT CABLE REPLACE MY ELECTRIC BASEBOARD HEATERS?**

A: Yes, nVent NUHEAT Cable produces 12 W/ft<sup>2</sup> for a heat output of 41 BTUs /ft<sup>2</sup> (or 15 W/ft<sup>2</sup> for a heat output of 51 BTUs)—easily heating most rooms.

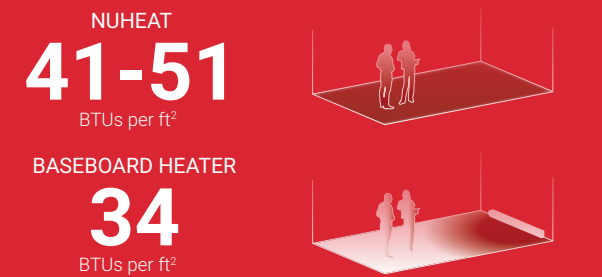
**Q: CAN I USE NVENT NUHEAT CABLE TO REPLACE MY HOT-WATER RADIATOR?**

A: Yes, nVent NUHEAT Cable is a viable alternative to water radiators. Invisible and maintenance-free, nVent NUHEAT Cable is a perfect heating option for renovations or additions.

**Q: WILL NVENT NUHEAT CABLE HEAT THE WHOLE ROOM OR JUST THE FLOOR?**

A: The whole room! nVent NUHEAT Cable transforms the entire floor area into the room’s heat source—guaranteeing even, consistent heat.

## HEAT COVERAGE COMPARISON



## OPERATING COST EXAMPLE

|             |  | <i>ft</i> <sup>2</sup> | \$*    |
|-------------|-------------------------------------------------------------------------------------|------------------------|--------|
| Bathroom    | 5.5 hr.                                                                             | 50                     | \$0.18 |
| Kitchen     | 7.5 hr.                                                                             | 150                    | \$0.75 |
| Living Room | 7.5 hr.                                                                             | 200                    | \$1.01 |

\*Average winter operating cost. Based on US Energy Information Administration 2017 national average of \$0.1289 per kWh and modern insulation standards.

## NVENT NUHEAT CABLE SPECIFICATIONS

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| Operating voltage                       | 120 V, 208 V, and 240 V                                 |
| Power output                            | 10-15 W/ft <sup>2</sup> (depending on wire spacing)     |
| Minimum bending radius                  | 0.5 in (12 mm)                                          |
| Maximum continuous exposure temperature | 194°F (90°C)                                            |
| Minimum installation temperature        | 50°F (10°C)                                             |
| Heating cable                           | 2-wire, grounded, twisted pair with PVC outer jacket    |
| Cold lead                               | 2-wire, 16-18 AWG plus ground braid; 10 ft (3 m) length |

## NVENT NUHEAT MEMBRANE FAST FACTS

- Provides crack isolation (ANSI A118.12 System Crack Resistance: 'High Performance' rating)
- Accommodates nVent NUHEAT Cable, cold lead joint, end seal, and sensor probe without cutting or modification
- Provides waterproofing when used with waterproofing seam tape
- Replaces one layer of plywood or cement board in the subfloor assembly
- Accepts use of modified and unmodified thinsets for tile setting
- Robinson Floor Test (ASTM C627): 'Extra Heavy' rating
- Industry leading 25-Year Total Care Warranty

## NVENT NUHEAT PEEL & STICK MEMBRANE FAST FACTS

- Provides crack isolation (ANSI A118.12 System Crack Resistance: 'High Performance' rating)
- Accommodates nVent NUHEAT Cable, cold lead joint, end seal, and sensor probe without cutting or modification
- Installs in 40% less time than membranes that require thinset, eliminates thinset oozing through seams
- Replaces one layer of plywood or cement board in the subfloor assembly
- Accepts use of modified and unmodified thinsets for tile setting
- Robinson Floor Test (ASTM C627): 'Moderate' rating
- Industry leading 25-Year Total Care Warranty

## CABLE (120 V)

| Square Foot Coverage |                    |             |                |            | Model No. | Length (ft) | Amps | Watts |
|----------------------|--------------------|-------------|----------------|------------|-----------|-------------|------|-------|
| w/ Cable Guides      |                    | w/ Membrane |                |            |           |             |      |       |
| 3" Spacing*          | 3"/2"/3" Spacing** | 3 pillars†  | 2/3/2 pillars‡ | 2 pillars§ |           |             |      |       |
| 12 W/ft²             | 15 W/ft²           | 10 W/ft²    | 12 W/ft²       | 15 W/ft²   |           |             |      |       |
| 8                    | 6                  | 9           | 8              | 6          | N1C008    | 29          | 0.7  | 80    |
| 12                   | 9                  | 14          | 12             | 10         | N1C012    | 47          | 1.2  | 138   |
| 15                   | 12                 | 17          | 15             | 12         | N1C015    | 57          | 1.4  | 170   |
| 25                   | 20                 | 30          | 25             | 21         | N1C025    | 98          | 2.5  | 299   |
| 30                   | 25                 | 36          | 31             | 25         | N1C030    | 120         | 2.9  | 343   |
| 40                   | 30                 | 45          | 38             | 31         | N1C040    | 148         | 3.7  | 442   |
| 50                   | 40                 | 57          | 48             | 39         | N1C050    | 188         | 4.7  | 562   |
| 60                   | 50                 | 71          | 60             | 49         | N1C060    | 234         | 6.0  | 719   |
| 70                   | 55                 | 81          | 68             | 55         | N1C070    | 265         | 6.8  | 810   |
| 80                   | 65                 | 97          | 82             | 66         | N1C080    | 318         | 7.9  | 947   |
| 85                   | 70                 | 102         | 86             | 69         | N1C085    | 334         | 8.5  | 1021  |
| 95                   | 80                 | 115         | 97             | 78         | N1C095    | 377         | 9.7  | 1161  |
| 110                  | 90                 | 129         | 109            | 88         | N1C110    | 423         | 10.8 | 1299  |
| 120                  | 100                | 145         | 122            | 98         | N1C120    | 474         | 12.2 | 1461  |

## CABLE (240 V)

| Square Foot Coverage |                    |             |                |            | Model No. | Length (ft) | Amps | Watts |
|----------------------|--------------------|-------------|----------------|------------|-----------|-------------|------|-------|
| w/ Cable Guides      |                    | w/ Membrane |                |            |           |             |      |       |
| 3" Spacing*          | 3"/2"/3" Spacing** | 3 pillars†  | 2/3/2 pillars‡ | 2 pillars§ |           |             |      |       |
| 12 W/ft²             | 15 W/ft²           | 10 W/ft²    | 12 W/ft²       | 15 W/ft²   |           |             |      |       |
| 15                   | 12                 | 17          | 14             | 12         | N2C015    | 56          | 0.7  | 165   |
| 20                   | 15                 | 24          | 21             | 17         | N2C020    | 80          | 0.9  | 224   |
| 25                   | 20                 | 31          | 26             | 21         | N2C025    | 102         | 1.3  | 302   |
| 35                   | 30                 | 41          | 35             | 28         | N2C035    | 136         | 1.7  | 403   |
| 45                   | 35                 | 54          | 46             | 37         | N2C045    | 178         | 2.2  | 523   |
| 55                   | 45                 | 63          | 53             | 43         | N2C055    | 207         | 2.6  | 632   |
| 65                   | 50                 | 76          | 64             | 52         | N2C065    | 250         | 3.1  | 742   |
| 70                   | 60                 | 84          | 71             | 58         | N2C070    | 277         | 3.5  | 842   |
| 85                   | 70                 | 102         | 86             | 69         | N2C085    | 334         | 4.3  | 1020  |
| 90                   | 75                 | 109         | 92             | 74         | N2C090    | 358         | 4.6  | 1102  |
| 100                  | 85                 | 120         | 101            | 82         | N2C100    | 393         | 5.0  | 1211  |
| 120                  | 100                | 145         | 121            | 98         | N2C120    | 472         | 5.9  | 1427  |
| 135                  | 110                | 162         | 136            | 110        | N2C135    | 529         | 6.8  | 1621  |
| 145                  | 120                | 172         | 144            | 116        | N2C145    | 561         | 7.1  | 1704  |
| 160                  | 130                | 193         | 162            | 131        | N2C160    | 630         | 8.0  | 1914  |
| 170                  | 140                | 204         | 171            | 138        | N2C170    | 665         | 8.6  | 2054  |
| 190                  | 160                | 233         | 195            | 157        | N2C190    | 757         | 9.6  | 2314  |
| 215                  | 180                | 261         | 219            | 176        | N2C215    | 849         | 10.8 | 2589  |
| 240                  | 200                | 293         | 246            | 198        | N2C240    | 953         | 12.1 | 2905  |

nVent NUHEAT Cable offers flexible spacing for varying watt density, allowing installers flexibility on the job site. Square foot coverages above are estimates based on a square area with unheated border of 2" and actual coverage will vary depending on the number of turns in the cable path (more turns result in slightly less coverage).

**NVENT NUHEAT CABLE GUIDE NOTES:**

- \*3-inch spacing in Cable Guides produces 12 W/ft² (standard output)
- \*\*Alternating 3-inch / 2-inch spacing in Cable Guides produces 15 W/ft² (high output), which is best for installations on a concrete slab or when heat loss is a concern.

**NVENT NUHEAT MEMBRANE NOTES:**

- †3 pillar spacing in nVent NUHEAT Membrane produces 10 W/ft² (low output), which is not typically recommended but possible for low-use areas when trying to stretch coverage.
- ‡Alternating 2-3-2 pillar spacing in nVent NUHEAT Membrane produces 12 W/ft² (standard output).
- ♦2 pillar spacing in nVent NUHEAT Membrane produces 15 W/ft² (high output), which is best for installations on a concrete slab or when heat loss is a concern.

# MEMBRANE

| Model #    | Part # | Description                                      | Area (ft²)             | Dimensions              | PKG Weight | PKG Size       |
|------------|--------|--------------------------------------------------|------------------------|-------------------------|------------|----------------|
| NUMEM100PS | FG0802 | Peel & Stick Membrane Sheets (10 sheets per box) | 105.6 (10.6 per sheet) | 3'3" x 3'3" (per sheet) | 18 lb.     | 40" x 40" x 3" |
| NUMEM250PS | FG0801 | Peel & Stick Membrane Sheets (25 sheets per box) | 264.1 (10.6 per sheet) | 3'3" x 3'3" (per sheet) | 45 lb.     | 40" x 40" x 8" |
| NUMEM054   | AC0106 | Small Membrane Roll                              | 53.6                   | 3'3" x 16'6"            | 10 lb.     | 39" x 9.5"     |
| NUMEM161   | AC0105 | Large Membrane Roll                              | 160.9                  | 3'3" x 49'6"            | 30 lb.     | 39" x 14.5"    |
| NUMEM250   | FG0800 | Membrane Sheets (25 sheets per box)              | 264.1 (10.6 per sheet) | 3'3" x 3'3" (per sheet) | 45 lb.     | 40" x 40" x 8" |
| PRBPE 1505 | AC0107 | Small Seam Tape Roll                             | n/a                    | 6" x 16'                | 1 lb.      | 6" x 3" x 3"   |
| PRBPE 1530 | AC0108 | Large Seam Tape Roll                             | n/a                    | 6" x 98'                | 1 lb.      | 6" x 5" x 5"   |

# WARRANTY



**GAIN THE EXCLUSIVE RIGHTS** to offer 25-Year Total Care Warranty\* for your floor heating installations. By signing up today you're on your way to distinguishing yourself through expert certification.

For more information, please call: +1.800.778.WARM(9276) or email: [CertifiedPROteam@nvent.com](mailto:CertifiedPROteam@nvent.com)

\* Total Care Warranty is an upgrade of our product warranty and is offered exclusively at no additional cost for all installations completed by nVent NUHEAT Certified PRO installers. To learn more on how to become a nVent NUHEAT Certified PRO installer visit [nVent.com/NUHEAT](http://nVent.com/NUHEAT)

## THERMOSTATS



### **nVent NUHEAT Signature** WiFi-Enabled Floor Heating Thermostat

- WiFi-enabled
- 3.5 in Color touchscreen
- Energy usage monitor
- 7-day programmability
- Dual-voltage (120 V & 240 V)



Control4



### **nVent NUHEAT Home** Programmable Floor Heating Thermostat

- 3.5 in Color touchscreen
- Energy usage monitor
- 7-day programmability
- Dual-voltage (120 V & 240 V)



### **nVent NUHEAT Element** Non-Programmable Floor Heating Thermostat

- Manual temperature control
- Dual-voltage (120 V & 240 V)



## **North America**

Tel: 1-800-778-9276

Fax: 1-604-529-4404

[nuheat.customercare@nVent.com](mailto:nuheat.customercare@nVent.com)



[nVent.com/NUHEAT](http://nVent.com/NUHEAT)

©2023 nVent. All nVent marks and logos are owned or licensed by nVent Services GmbH or its affiliates. All other trademarks are the property of their respective owners. nVent reserves the right to change specifications without notice.

NUHEAT-SB-H60132-FHCable-EN-2302

All thermostats come with manufacturer's limited (3) three-year warranty (valid from the date of purchase) and built-in GFCI protection.