

# Orbit Electrical Radiant Heating Systems

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BuyLine 8557

## Over 80 Years of Warm Floors, Dry Sidewalks and Reliable Radiant Comfort!

Orbit has the best, proven solution for your radiant heating needs – Nexans heating cables. Why Nexans? They are the thickest cable systems on the market today... and Nexans has delivered reliable and durable cable for over 80 years. Orbit radiant heating systems are cost-effective for indoor and outdoor use, and are designed to withstand the rigors of almost any application, from snow and ice melting to frost protection.

Orbit makes it easy for designers and engineers to specify electric radiant heating systems in their plans. We supply complete CSI 3-part architectural specifications in several formats, customized for your residential or commercial project, and included in your master specification for future use.



### Orbit Electric Radiant Heating Systems Benefits:

- **Comfort:** Heat is distributed evenly, warming cold surfaces such as tile even on the most frigid days. No more tiptoeing across an ice-cold bathroom floor first thing in the morning!
- **Convenience:** Radiant heating systems provide the convenience of not having to shovel a driveway or walkway, saving you time.
- **Save energy:** Because electric radiant heating is very efficient, thermostats can be set at a lower temperature, resulting in significant energy savings. Electric radiant heating is also self-regulating. A thermostat controls operation, so the system is on only when you need it.
- **Flexibility:** Radiant heating has multiple uses in a residential or commercial application. It can warm a single room, such as a kitchen or bathroom; heat an entire house or building; or be used outdoors to melt snow and ice. Radiant heating also works well with any heating system, from hot water to heat pumps.
- **Safety:** Unlike other types of heating systems, electric radiant heating systems are reliable and maintenance free with no moving parts, no open flames and no exposed heating elements.
- **Maximize living space:** Radiant heating systems are totally concealed. Walls, floors and outdoor areas can be used without affecting the look and feel of where they are installed.



**Orbit Radiant Heating**  
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# Snow and Ice Melting Systems

## High-quality Nexans Snow and Ice Melting Systems – Only from Orbit

We are the exclusive North American supplier of Nexans TXLP cable-based snow and ice melting systems, which are used to safely melt snow and ice on any ground surface, such as concrete, brick, pavers or asphalt.

Our Nexans cable is designed to withstand the rigors of harsh outdoor use. It is made from a high-quality, long-lasting conductor wire and insulated by a cross-linked polyethylene cover. To complete the assembly, a solid metallic sheathing with a durable PVC plastic outer covering protects the cable and helps prevent damage during installation and operation. The cable is available in a variety of voltages ranging from 120 V to 480 V, making it ideal for any residential, commercial or heavy industrial application.

### Orbit Snow and Ice Melting Product Features:

- High-quality Nexans radiant heating cable is up to three times thicker than the competition's – the most durable on the market.
- The only heating cable with a waterproof metal sheath and a total of three protective coverings to prevent damage during installation and operation, backed by a 30-year warranty.
- Flexible radiant heating systems work well on any ground surface for driveways, walkways, handicapped ramps and patios.
- Quick delivery for complete customized systems within one to three days of your order.
- Easy to install, the cable layout can conform to any shape necessary, and no extra building material is needed.
- Complete CSI 3-part architectural specifications make our heating systems easy to plan.
- Complete line of controls, temperature and moisture sensors and NEMA-rated control panels for all of our outdoor systems.



Nexans



**Orbit**  
Radiant Heating  
Now You're Getting Warmer!

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# High-quality Nexans Floor Warming Systems – Only from Orbit

At Orbit, our Nexans UL-listed Series TXLP cable-based electric radiant heating systems offer the highest quality on the market today. They can warm a single room, such as a kitchen or bathroom, or heat an entire house or building.

Our cable works well with any heating system, any type of floor and any floor covering. It is made from a long-lasting conductor wire, and has the same waterproof PVC plastic outer covering as our durable outdoor snow and ice melting systems. The cable is available in ready-made sets from 300 to 3100 Watts, making it ideal for warming almost any size room. Custom sizes and voltages are also available.

## Orbit Floor Warming Product Features:

- High-quality Nexans radiant heating cable is up to three times thicker than the competition's – the most durable on the market.
- The only heating cable with a total of three protective coverings to prevent damage during installation and operation, backed by a 30-year warranty.
- Flexible systems that work with any type of heating system, any type of floor, as well as any type of floor covering.
- Quick delivery for ready-made units for virtually any size room, with next day delivery for standard systems and three to five days for custom systems.
- Easy to install, the cable layout can conform to any room shape and no extra building material is needed.
- Complete CSI 3-part architectural specifications make our heating systems easy to plan.
- Complete line of thermostats and magnetic contactors for residential floor warming systems, and a variety of NEMA-rated control panels for commercial use.



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# Indoor and Outdoor Radiant Heating Controls

## Complete Line of Indoor and Outdoor Controls from Orbit

At Orbit, we provide a variety of control products for all of our electric radiant heating systems. Our indoor floor warming control kit options as well as our outdoor control panels are extremely economical and reliable for any sized application. All of our control panels can handle up to 200 A of power, are housed in NEMA-rated, UL-listed enclosures and come with color-coded pre-wired and pre-numbered terminal connections for easy installation and operation.

### Indoor Controls Features:

- Flexible, easy to install systems that include the option of air, floor or dual sensing thermostats.
- First UL-listed digital thermostats with integrated Ground Fault Circuit Interrupter (GFCI) circuitry, all with Energy Star rating.
- Quickly disconnects power to the heating element caused by faulty wiring or damage of the heating element for safe operation.
- Meet all NEC codes for shock protection.

### Outdoor Controls Features:

- Automatically activates cables to melt snow or ice when the required temperature and moisture is present.
- Allows system to heat the surface for a maximum of 90 minutes after temperature rises above threshold to account for site differences.
- Optional pavement mounted sensor available for direct wiring to control panels for commercial applications that require close monitoring.
- Red "heat on" pilot light indicates that the system is in operation and helps prevent damage.
- Manual override timer that is an ideal method for melting skim ice or drifting snow.



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