

Snow & Ice Melting ...



...The Electric
Cable Approach



For Residential and Commercial Properties



About Snow Melting

For years in America, we have been concerned with melting ice and snow from sidewalks, ramps, driveways, roofs and gutters. Nexans, with over 75 years of experience in the electric cable industry has designed the industry's leading product for these damaging acts of nature. The TXLP cable has three waterproof coverings including one made out of metal. Nexans is the only cable manufacturer that can provide this type of cable. The cable has been designed to withstand the rigors of installation and the harsh outdoor environment.

The following three cases are typical examples of snow and ice melting applications:



Case 1

COMMERCIAL - SNOW MELTING

Walkways are typical snow melting applications. The ski lodge that appears here and access ramps are two of the more common areas that are ideal for snow and ice melting.

Case 2

RESIDENTIAL - SNOW MELTING

Driveways, walkways, and outside patios are also areas that would benefit from snow melting.



Case 3

ROOF & GUTTER ICE MELTING

Many roof leaks are the direct result of snow and ice buildup in the gutter or along the roof edge. These ice dams create pressures on the roofing material, lifting and damaging the seal. When the ice melts the water has no path to the gutter and or down-spout and infiltrates into the structure.



Series TXLP Electric Snow Melting Cable



BENEFITS:
Easy Installation
Reliability
Simple Design

QUICK DESIGN FOR SNOW MELTING

SURFACES	RESIDENTIAL	LIGHT COMMERCIAL	HEAVY COMMERCIAL & CIVIL
	Driveways		Landings & Steps
Steps		Parking Lots	Bridges
Decks		Ramps	Walkways & Ramps
Asphalt	32.5 WATTS Sq. Ft.	32.5 WATTS Sq. Ft.	32.5 WATTS Sq. Ft.
Concrete Pavers	32-36 WATTS Sq. Ft.	37-45 WATTS Sq. Ft.	50-55 WATTS Sq. Ft.
Roof	18-22 WATTS Sq. Ft.	23-26 WATTS Sq. Ft.	23-26 WATTS Sq. Ft.

- Notes: These calculations are based on the following design criteria:
1. Blizzard conditions of 1" of snow fall per hour and a 15 MPH wind.
 2. Automatic controls that sense both precipitation and temperature.
 3. Available voltages: 24, 120, 208, 230, 240, 277, 440, 480, and 480.

Typical Snow Melting Installations



Concrete, Brick, Pavers or Asphalt



Sand For Brick Or Pavers



TXLP Cable: Faster To Wire, Wash, Re-Bar Or Use RC-1 Clips



Insulation If Used



Structural Concrete, Gravel, Asphalt Binder Layer Or Existing Asphalt.

* No Slopes Greater Than 10%

SERIES TXLP ROOF AND GUTTER CABLE



SPECIFICATIONS FOR ROOF AND GUTTER ICE MELTING CABLE

Provide a complete snow-ice melting system as manufactured by Nexans and made to specification by Orbit Manufacturing, Inc. of Perkasie, PA.

The system shall be UL listed, series resistance type heating cable, consisting of a high quality nickel chrome wire, covered with XLPE insulation, a continuous copper grounding conductor, surrounded by a metal jacket for mechanical protection, and an outer extruded PVC covering. Cable shall be rated at 170F and have a minimum 10 year warranty. Self regulating cables are not acceptable.

All Cables shall be sized to produce a maximum of 6-7.5 watts per foot when energized, the cables shall be factory assembled, with cold junctions, with a specified cold lead of NO. 10UF wire.

Cables shall be installed and tested accordingly to the Manufacturers instructions.

Cables shall be installed on the roof in a pattern directed by the installation instructions. Roof, gutter clips and down spout hangers as required will be available for purchase from the Orbit Mfg.

The system shall be controlled by a NEMA 1, surface mounted control panel (size to be determined based on application). The following controls will be included: Line and load terminal blocks, operating contactors, fuses, transformer, APS-3 automatic ice controller (optional), GFI circuit breakers.

A remote barrel type temperature and moisture sensor (Model GIT) shall be placed in the gutter. The gutter shall be zoned so there may not be more than 300 feet on one sensor.

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