



Electric Snow Melting Systems

Roads, footpaths, garage, driveways, walkways, loading docks, ramps, hospital and shopping malls entranceways, bridges, helicopter landing pads, etc. - many traffic areas have to be kept snow and ice free around the clock in winter to allow people to walk and drive with ease. For this tough application, snow melting cables and mats offer a perfect solution. They offer safe thawing of snow and ice, and avoid snow buildup and ice surfaces. These are used normally with snow (moisture) and temperature sensors with Thermostat which switch 'on' and 'off' the power to keep the area clear of snow and ice. These are operated by a control box or a panel installed indoor.

The heating cables are also available as a complete pre-assembled item with cold lead or made in the form of an easy to roll out and install as a mat. These cables can be secured directly onto the reinforcement steel before the sand bed, concrete or asphalt is poured. The mat is designed to heat walkways and driving tracks. The mats can be cut and turned around for easy and quick installation under cobble stone or other outdoor coverings.

Different type of Snow melting cables are:

1. **Single core heating wire** with double cold leads attached at ends, insulation of Fluoropolymer or Polyethylene, Copper braid or Al foil shield and high temperature PVC Jacket, rated about 30W/m@ 230V. When installed with about 100mm spacing, it gives a heat output of about 300W/sqm.
2. **Dual core heating cable** with single cold lead attached, insulation of Fluoropolymer or Polyethylene, Copper braid or Al foil shield and high temperature PVC Jacket, rated about 30W/m@ 230V. When installed with about 100mm spacing, it gives a heat output of about 300W/sqm.
3. **High temperature dual core heating cable** with single cold lead attached, insulation of Fluoropolymer or Polyethylene, Copper braid or Al foil shield and double jacket of Polyethylene and high temperature PVC, rated about 30W/m@ 230V for installation under asphalt for heat output of about 300W/sqm.
4. **Roof & Gutter heating** (Self-regulating type): It automatically varies its power output in response to temperature change. It is easy to install, can be cut to any length, Insulation PE, Jacket TPE, Max heat output 40W/m. A circuit breaker to be used. These are much costlier.

All cables and mats after installation under concrete asphalt, do not require any maintenance and serve effectively for years. They usually come with a minimum 10 year warranty. Professional advice is generally available from the seller or installer about the cable /mat selection and proper installation.