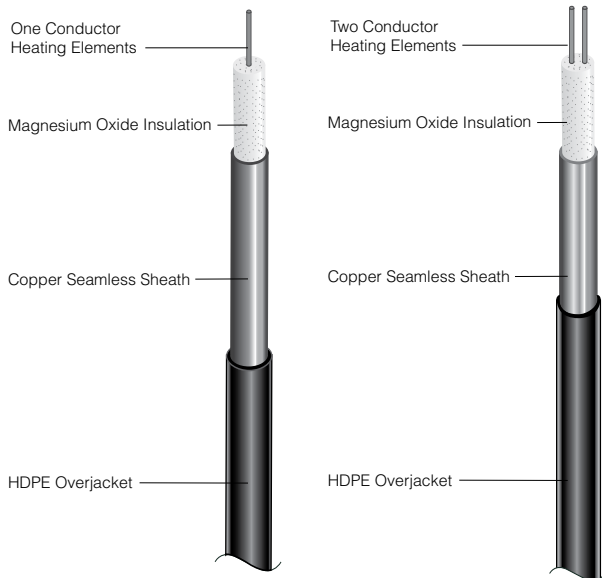




## MINERAL INSULATED (MI) SNOW MELTING CABLE ASSEMBLY



### One Conductor And Two Conductor



#### DESCRIPTION

Mineral insulated (MI) cable consists of one or two conductor heating elements embedded in highly compressed magnesium oxide covered by a copper sheath. Application requirements determine resistance size and sheath material.

#### TERMINATION CONSTRUCTION

Each Delta-Therm MI cable assembly is fully terminated and moisture proof. The end termination consists of a 2.5' (76cm) thermal gradient section connected to 20' (6m) THWN cold leads. The cold leads are crimped and soldered to the thermal gradient section, insulated with a high-dielectric, high-temperature tape, and epoxy potted in a rigid brass sleeve. The thermal gradient section is silver soldered to the heating element and protected by a rigid brass sleeve packed with magnesium oxide.

#### COLD LEADS

The 19-strand THWN wire connects to an electrical circuit. Standard cold lead length is 20' (6m). Leads can be ordered at any length, allowing junction boxes to be placed in remote, dry locations.

#### NUMEROUS VOLTAGES

Delta-Therm can design MI snow melting cable assemblies for any voltage up to 600 volts.

#### FLEXIBLE

MI cable is annealed (annealing tempers metal and removes brittleness) and easy to form and install. Irregular areas and obstacles are easily accommodated.

#### PAVING MATERIALS

MI cable can be embedded in concrete, in asphalt, and in sand under pavers.

#### HDPE JACKETING

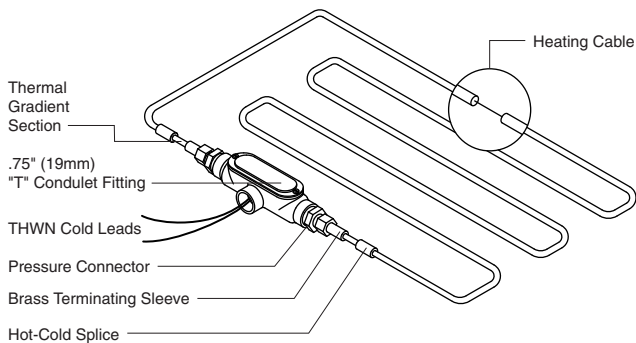
Extruded, high-density polyethylene jacketing adds physical strength and protects against corrosives such as calcium chloride and salt.

#### FIRE RESISTANT

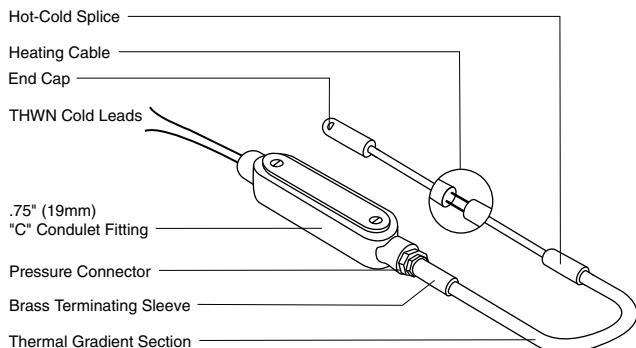
MI cable construction will not contribute to or cause an electrical fire.

#### NO DEGRADATION

Delta-Therm MI cable is made of inorganic materials. Degradation of MI cable is negligible when compared to cables made of organic materials such as plastic.



**Detail 1. One Conductor Cable Assembly**



**Detail 2. Two Conductor Cable Assembly**



**COMPREHENSIVE FACTORY TESTING**

Each cable undergoes hi-pot, megger, and resistance tests both before and after overnight immersion in water.

**LOW INSTALLATION COSTS**

MI cable arrives ready to install. Since terminations are done at the factory, electricians can expedite the installation, helping to reduce overall installation costs.

**Recommended Watts Per Lineal Foot And Cable Spacing**

Area	Watts	Centers
Pedestrian In. (mm)	27	6" (152) Centers
Vehicle In. (mm)	22	6" (152) Centers
Vehicle In. (mm)	27	8" (203) Centers
Hangar Door	25	Attach To Outer Bottom (Rail Deicing) Flange Of Rail

**Material Temperature Limits**

HDPE Overjacket °F (°C)	194** (90°)
Copper °F (°C)	392° (200°)

\*HDPE overjacketed cable may be exposed to higher temperatures during installation in asphalt.

**Cold Lead Size**

Amps	Wire Size
0-16	12 AWG
16-24	10 AWG
24-45	8 AWG
45-65	6 AWG

**INVENTORY AND SHIPPING**

Delta-Therm maintains an inventory of both bare and jacketed mineral insulated cable. Orders of material in stock can usually be shipped within two weeks.

**BASE KIT** (supplied with each MI cable assembly)

- Thermal Gradient Section
- Cold Leads
- Pressure Connectors
- "T" Or "C" Condulet With Gasket And Cover
- Delta Dry (Water Repellent Powder)
- Duct Seal
- Installation Instructions

**Base Kit Accessories**

Heater Assembly Only
Additional 19-Strand Cold Lead
Base Kit
Splice Kit
Unilet Kit
Additional Thermal Gradient

**Controls**

DTC120-S	Automatic Snow Melt Control
DTC120-PS	Automatic Snow Melt Control
MPS	Automatic Snow Melt Control

**Panels**

DT-XXPXXX	Enclosed Contactor
GFPE-X-X	Power Control Panel w/GFPE
LNR-X	Low Noise Relay Panel
Custom Control/Monitor/Alarm Panels	

**Accessories**

T-SSS	Stainless Steel Strapping
NEC Plaque	Embedded Heating System's Marker

**TO ORDER:**

	<input type="text"/>
<b>Prefix</b> _____ (S - Snow Melting)	↑
<b>Number Of Conductors</b> _____	↑
<b>Ohms/Ft. (m)</b> _____	↑
<b>Length Per Hot Section</b> _____	↑
<b>Volts</b> _____	↑
<b>Amps</b> _____	↑
<b>kW</b> _____	↑
<b>Watts Per Lineal Foot</b> _____ (refer to design guide)	↑
<b>Suffix H, B, Or SS</b> _____ (if desired)	↑
<b>AWG</b> _____ (refer to chart)	↑
<b>Cold Length</b> _____ (length needed to reach junction box NOTE: voltage drop not to exceed 3%)	↑