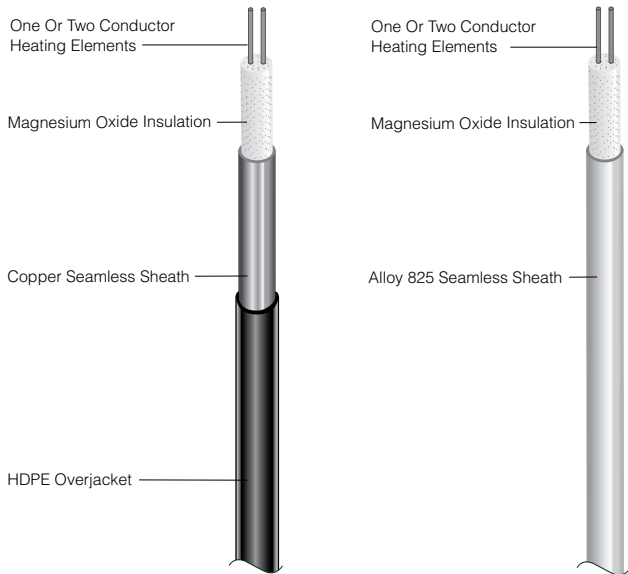




MINERAL INSULATED (M.I.) ROOF DEICING CABLE ASSEMBLY ▲

One Conductor And Two Conductor



DESCRIPTION

Mineral insulated (M.I.) cable consists of one or two conductor heating elements embedded in highly compressed magnesium oxide covered by a copper sheath which can be covered by a high density polyethylene (HDPE) overjacket. Application requirements determine resistance size and sheath material.

TERMINATION CONSTRUCTION

Each Delta-Therm M.I. cable assembly is fully terminated and moisture proof. The end termination consists of a 5' (152cm) 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 M.I. roof and gutter deicing cable assemblies for any voltage up to 600 volts.

FLEXIBLE

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

ROOF MATERIALS

M.I. cable can be installed on most common roof materials.

HDPE JACKETING

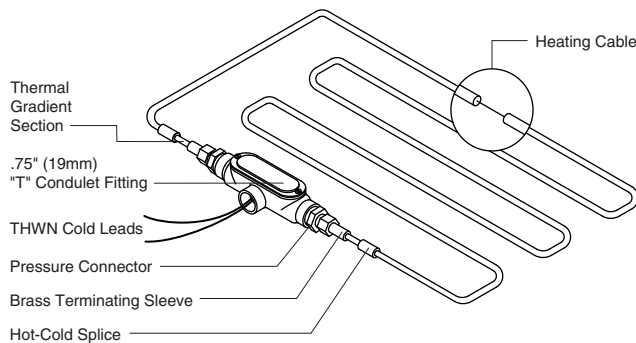
Extruded, high-density polyethylene jacketing adds physical strength and protects against corrosives such as calcium chloride and salt.

FIRE RESISTANT

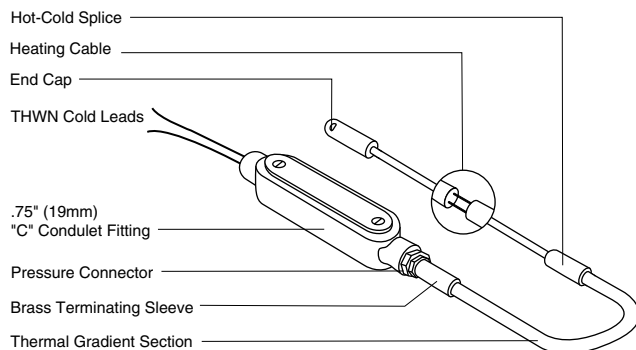
M.I. cable construction will not contribute to or cause an electrical fire

NO DEGRADATION

Delta-Therm M.I. cable is made of inorganic materials. Degradation of M.I. 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

M.I. 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

Area	Watts
Roof (Metal)	8-12
Roof (Plastic Or Composition)	5-7
Roof And Gutter (Metal)	8-12
Roof And Gutter (Plastic Or Composition)	5-7

Material Temperature Limits

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

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 M.I. 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

DTC-24R	Automatic Roof Deicing
MPS	Automatic Roof Deicing

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

DT-AS-50	Roof Clips For Asphalt Or Metal Roofs (50 count)
RM-25-AL	Aluminum Clips For Metal Roofs (25 Count)
Specialty Clips	Specialty Clips Roof Materials Other Than Metal or Asphalt
DSH	Downspout Hanger

TO ORDER:

Prefix	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
(R - Roof And Gutter) (M - Roof And Gutter On Metal)																				
Number Of Conductors	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Ohms/Ft. (m)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Length Per Hot Section (measurement in feet)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Volts	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Amps	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
kW	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Watts Per Lineal Foot (refer to design guide)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Suffix H, B, Or SS (if desired)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
AWG (refer to chart)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Cold Length (length needed to reach junction box NOTE: voltage drop not to exceed 3%)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____