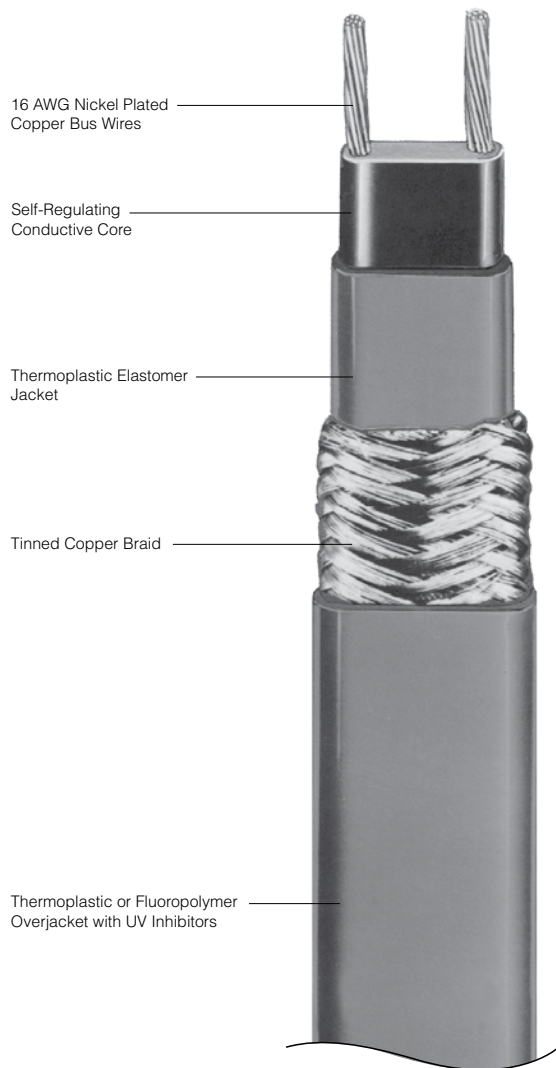


## **INDUSTRIAL SERIES (IN) ROOF AND GUTTER DE-ICING CABLE**

**120 And 240 Volts 5 And 8 Watts/Ft.  
Above Standard Ratings Are  
Heat Output At 50°F (-10°C)**



### **DESCRIPTION**

Delta-Therm self-regulating heating cable increases heat output as temperature decreases, and conversely, decreases heat output as temperature increases. This cable is intended for roof and gutter applications.

Industrial Series cables contain two parallel bus wires electrically connected by a web of PTC (positive temperature coefficient) conductive polymer. A thermoplastic elastomer jacket surrounds the cable to provide mechanical protection and electrical isolation. The tinned copper braid provides additional mechanical protection as well as a ground path for fault currents. The thermoplastic (T) or optional fluoropolymer (F) overjacket has UV inhibitors which protect against damage from the sun. The overjacket also provides mechanical protection.

### **APPLICATION**

**Roof And Gutter Deicing**

### **APPROVALS**

CSA Wet: IN Series CBT or CBF cables are CSA certified for roof and gutter applications (2E Cable Designation) when used with PCK-RG connection kit.



### **WARNING**

**WARNING:** This cable is designed for commercial applications and must be installed by a qualified electrician. Improper installation can result in property damage, serious injury, and/or death due to electric shock and fires.



# TECHNICAL INFORMATION, INDUSTRIAL (IN) SERIES ROOF AND GUTTER DE-ICING CABLE

## Breaker Sizing And Maximum Circuit Length Ft. (m)

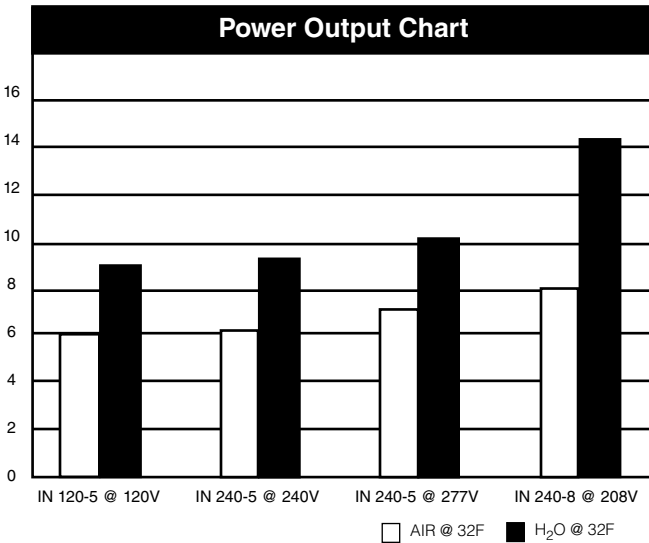
		Protective Device Rating		
		15A	20A	30A
Volts	Catalog Number			
120	IN 120-5-CBT	125' (38)	150' (46)	205' (62)
240	IN 240-5-CBT	250' (76)	300' (91)	335' (102)
277	IN 240-5-CBT	160' (49)	210' (64)	320' (98)
208	IN 240-8-CBT	190' (58)	225' (69)	260' (79)

## Alternate 240 VAC Voltages

Delta-Therm 240V self-regulating heating cable is multi-voltage. It can be used in 208V, 240V, and 277V applications. (Please refer to the thermal rating row on the Electric Specifications Table)

## IN Series Electrical Specifications

Catalog Number	IN120-5	IN240-5	IN240-5	IN240-8
<b>Voltage</b>	120	240	277	208
<b>Maximum Circuit Length Ft. (m)</b>	205' (62)	335' (102)	320' (98)	260' (79)
<b>Thermal Rating At 32°F (Watts/Ft.) Air 0°C (Watts/m) Air</b>	6 (20)	6 (20)	7 (23)	8 (26)
<b>Thermal Rating At 32°F (Watts/Ft.) H<sub>2</sub>O 0°C (Watts/m) H<sub>2</sub>O</b>	9 (30)	9 (30)	10 (33)	14 (46)
<b>Maximum Exposure Temperature °F (°C)</b>	185° (85°)	185° (85°)	185° (85°)	185° (85°)



## Accessories

<b>PCK-RG</b>	Power Connection Kit
<b>IMP</b>	Ice Melt Panel
<b>DT-AS-50</b>	Roof Clips For Asphalt Or Metal Roofs (50 count)
<b>RM-25-AL</b>	Aluminum Clips For Metal Roofs (25 Count)
<b>Specialty Clips</b>	Specialty Clips Roof Materials Other Than Metal or Asphalt
<b>DSH</b>	Down Spout Hanger

## Controls

<b>DTC-24R</b>	Roof Deicing Control
<b>MPS</b>	Roof Deicing Control

## Panels

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

## Circuit Breakers

Do not use magnetic-type circuit breakers. Delta-Therm recommends using the following thermal-magnetic circuit breakers (or equivalent) to prevent nuisance tripping caused by inrush currents:

<b>Westinghouse:</b>	Types BA, EB, EHB, FB, HFB
<b>Gen. Electric:</b>	Types TEB, THED
<b>Square D:</b>	Types EH, FA

## Use Of Ground Fault Protective Devices And Tinned Copper Braid

### NEC CODE 2005, ARTICLE 426-27

**Grounding Braid or Sheath.** Grounding means, such as copper braid, metal sheath, or other approved means, shall be provided as part of the heated section of the cable, panel, or unit.

### NEC CODE 2005, ARTICLE 426-28

Equipment Protection. "Ground-fault protection of equipment shall be provided for fixed outdoor electric deicing and snow-melting equipment..."

It requires that fixed outdoor snow-melting and deicing equipment be protected by a device that provides ground-fault protection of equipment (GFPE). A GFPE trips at 30 milliamperes or greater. This is not the same as a ground-fault circuit-interrupter (GFI) used for personnel protection that trips at 5 milliamperes (+/- 1 milliampere).

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