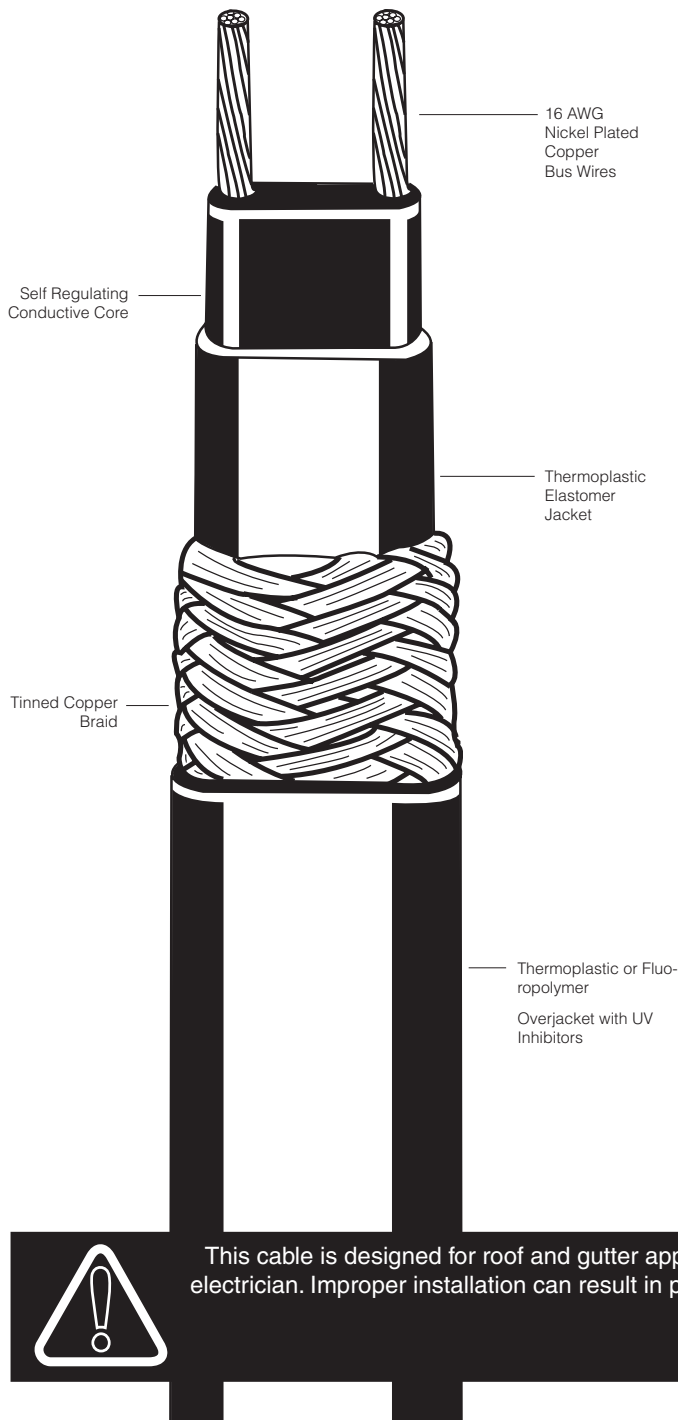


**INDUSTRIAL SERIES (IN)**  
**ROOF AND GUTTER APPLICATIONS**  
**120 and 240 Volts 5 and 8 Watts/Ft**  
**Above standard ratings are heat output at 50° F (-10°C)**

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.



**DESCRIPTION**


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.

 This cable is designed for roof and gutter 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.

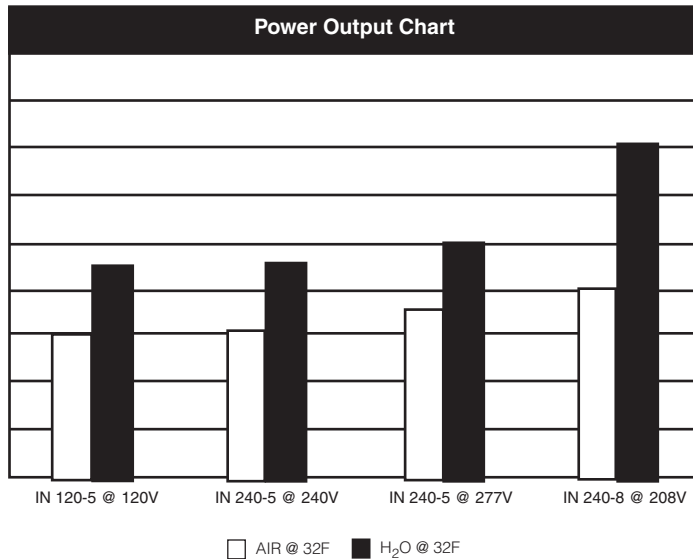
# Technical Information, Industrial (IN) Series

## BREAKER SIZING VS MAXIMUM CIRCUIT LENGTH

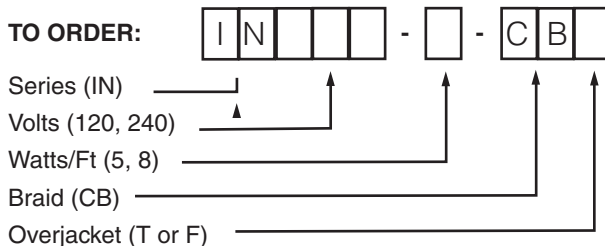
Protective Device Rating		15A	20A	30A
<b>Volts</b>	<b>Catalog Number</b>			
120	IN 120-5	125	150	205
240	IN 240-5	250	300	335
277	IN 240-5	160	210	320
208	IN 240-8	190	225	260

## ELECTRICAL SPECIFICATIONS

Catalog Number	IN 120-5	IN 240-5	IN 240-5	IN 240-8
Service Voltage	120	240	277	208
Maximum Circuit Length (Feet) (Meters)	205 62.48	335 102.11	320 97.54	260 79.25
Thermal Rating at 32° F (Watts/Ft) Air 0° C (Watts/M) Air	6 19.68	6 19.68	7 22.96	8 26.24
Thermal Rating at 32° F (Watts/Ft) H2O 0° C (Watts/M) H2O	9 29.52	9 29.52	10 32.8	14 45.92
Maximum Exposure (°F) (°C)	185 85	185 85	185 85	185 85



### TO ORDER:



## 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).

## ACCESSORIES

- DTC120-G** Snow Sensing System
- MPS** Snow Sensing System
- PCK-RG** Power Connection Kit
- A19-ANC-1** Ambient and Line Sensing Thermostat
- OTS-F5** Fixed Thermostat
- OTS-1A** Line Sensing T-stat
- OTS-2A** Ambient T-stat
- IMP** Ice Melt Panel
- Various Clips and Down Spout Hangers

## PANELS

- GFPE Power Relay Panel

## 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:

- Westinghouse: Types BA, EB, EHB, FB, HFB
- Gen. Electric: Types TEB, THED
- Square D: Types EH, FA

## ALTERNATE VOLTAGES

Delta-Therm 240V self regulating heating cable is multi-voltage. It can be used in 208V, 240V, and 277V applications. (See charts above.)

The material contained in this document is presented in good faith and believed to be reliable and accurate. However, because testing conditions may vary and material quality or information that may be provided in whole or in part by others may be beyond our control, no warranty, expressed or implied, is given. Delta-Therm can assume no liability for results obtained or damages incurred through the application of the data and tests presented.

