

# WINTER-MELT

## Self-Regulating Plug-In Heating Cable (ECK)



### Features

#### Nominal voltage

- 120V.

#### Cold lead

- 36" (0.9 m).  
- Grounded 3-pronged plug with indicator light to show when the cable is on.

#### Outer jacket

- Thermoplastic.

#### Bus wire

- Nickel plated copper.

#### Maximum operating temperature (power on)

- 60 °C (140 °F).

#### Maximum operating temperature (power off)

- 80 °C (176 °F).

#### Bending radius, minimum

- 25 mm (1 in.).

#### Minimum installation and start-up temperature

- -25 °C (-13 °F).

#### Standards

- CSA C22.2.130.03; -WS.  
- CAN/CSA 60079-7:12, 60079-0-11.  
- ANSI/IEEE 515, 515.

#### Certification

- CSA C US 2547790.

#### Rating

- Wet rated, for outdoor use (WS).

#### Warranty

- 1-year basic warranty on the heating cable.

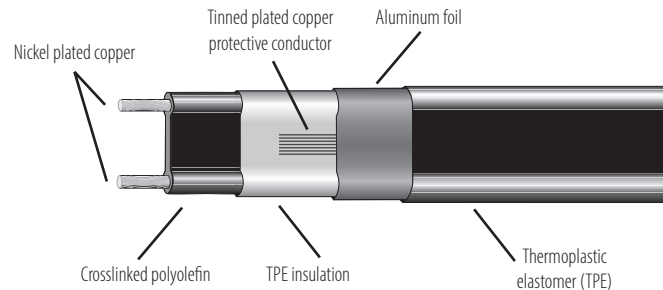
#### Application

- Freeze protection, roof and gutter, pipes.

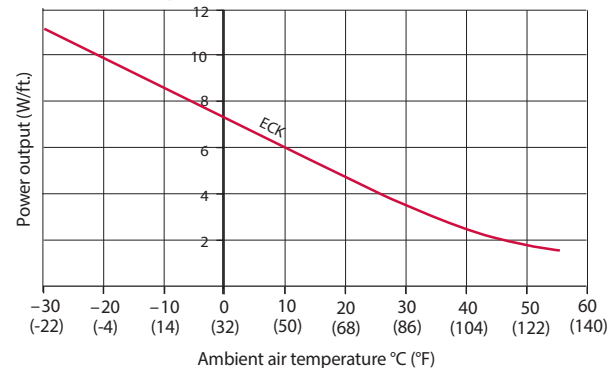


Winter-Melt (ECK) plug-in heating cables are the perfect solution for general freeze protection in residential and commercial applications. Factory assembled with a 3-pronged plug, each cable simply connects to a 120V outlet fitted with ground fault protection device (GFCI). Installation is quick and easy as the self-regulating feature allows the cable to be overlapped at any point without the risk of overheating.

### Cable Construction



### Linear power output in air condition according to operating temperature



### Models

Product # <sup>1</sup>	Length		Nominal power output in air condition at 5 °C (40 °F) <sup>2</sup> Watts
	ft.	m	
ECK-7AO-006	6	1.8	42
ECK-7AO-012	12	3.6	84
ECK-7AO-018	18	5.5	126
ECK-7AO-025	25	7.6	175
ECK-7AO-050	50	15.2	350
ECK-7AO-075	75	22.9	525
ECK-7AO-100	100	30.5	700

<sup>1</sup> Must be plugged into a 120V outlet fitted with ground fault protection device (GFCI).

<sup>2</sup> Because of the cable's self-regulating properties, the power density can reach up to 11 Watts per foot when buried in snow or ice: "wet density". In this situation, use of a 15 Amp. circuit breaker is valid for all models.

### Options

See Roof and Gutter De-Icing Controls and Accessories or Pipe Trace and Industrial Controls and Accessories section.

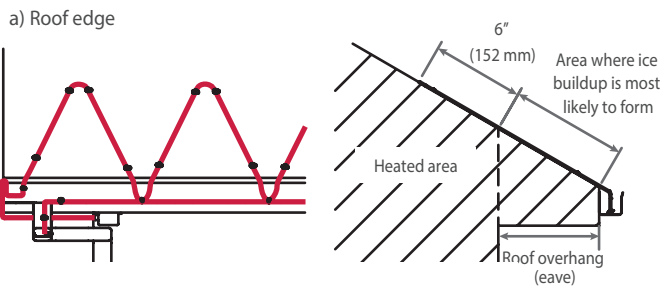
**Selection of Heating Cable**

**Roof and gutter de-icing system**

- Suitable for shingle, rubber/tar, wood, metal and plastic roofs.
- Suitable for wood, metal and plastic gutters.
- Helps prevent roof damage and leaking caused by ice.

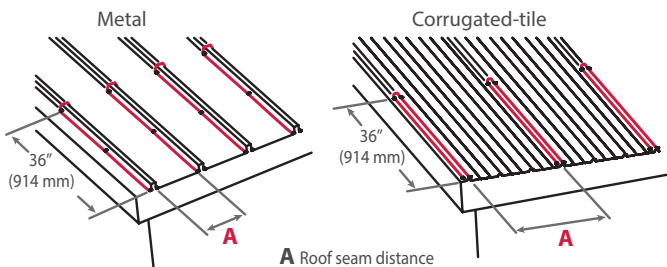
Complete the table below to determine how much heating cable is required.

Section	Calculation	Length
a) Roof edge	Roof line length (ft.) x multiplier (Table 1 or 2)	_____ ft.
b) Drain path/ drip loops	Roof line length (ft.) x 0.5	_____ ft.
c) Gutters	Total gutter length (ft.)	_____ ft.
d) Downspouts	Downspout length (ft.) x 2, plus 1 ft. for end termination	_____ ft.
e) Valleys	Valley length (ft.) x 0.67, x 2	_____ ft.
<b>TOTAL HEATING CABLE REQUIREMENT:</b>		_____ ft.



**Table 1: For shingle roof overhang**

Roof overhang (eave)	Multiplier
6" (152 mm)	2.0
12" (305 mm)	2.5
24" (610 mm)	3.6
36" (915 mm)	4.8



**Table 2: For metal/and corrugated-tile roofs**

Roof overhang (eave)	Roof seam distance	
	18" (Multip.)	24" (Multip.)
12" (305 mm)	2.5	2.2
18" (455 mm)	3.1	2.6
30" (760 mm)	3.6	3.2
42" (1065 mm)	4.2	3.8

Always refer to the installation manual

**Pipe tracing for freeze protection**

- Suitable for metal and plastic pipes.
- Approved for indoor and outdoor use.
- Helps prevent damage caused by a frozen pipe.

Use the table below as a guide to select the correct length of heating cable.

Pipe diameter	Pipe length						
	5'	10'	15'	25'	50'	75'	100'
<b>Metal</b>							
1/2"	6'	12'	18'	25'	50'	75'	100'
1"	6'	12'	18'	25'	50'	75'	100'
1 1/2"	6'	12'	18'	25'	50'	75'	100'
2"	6'	12'	18'	25'	50'	75'	100'
2 1/2"	6'	12'	18'	25'	50'	75'	100'
<b>Plastic</b>							
1/2"	6'	12'	18'	25'	50'	75'	100'
1"	6'	12'	18'	25'	50'	75'	100'
1 1/2"	6'	12'	18'	25'	50'	75'	100'
2"	12'	18'	25'	50'	75'	100'	-
2 1/2"	12'	18'	25'	50'	75'	100'	-

The recommended lengths in the table are based on an installation on pipe with an outside temperature of -18°C (0°F) if 1/2 in. insulation is used and up to -29°C (-20°F) if 1 in. insulation is used.

Add foot to the cable length per faucet.

For any installation on a pipe of a diameter greater than 2 1/2 inches, please refer to our technical support team.

This chart should only be used as a reference and does not guarantee any results.

Always refer to the installation manual.

