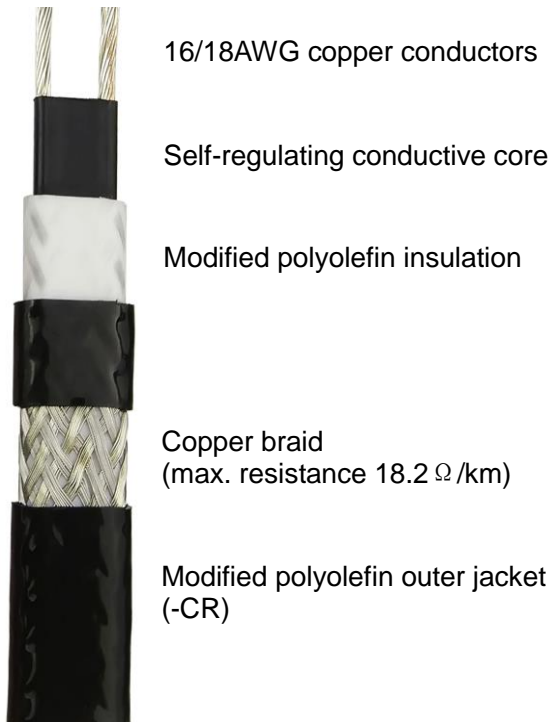


**Heating cable construction**



16/18AWG copper conductors

Self-regulating conductive core

Modified polyolefin insulation

Copper braid  
(max. resistance 18.2 Ω/km)

Modified polyolefin outer jacket  
(-CR)

**Description**

The LTV pre-assembled self-regulating heating cables are designed for residential and commercial metal and plastic pipe freeze protection and roof and gutter deicing applications.

The LTV pre-assembled cables are available in 1-100 feet lengths for 3LTV and 5LTV, in 1-50 feet length for 8LTV, 10LTV and 12LTV, each comes assembled with a power cord with or without a plug.

The LTV pre-assembled cables more than 100/50 feet lengths are available comes assembled with a power cord for terminating in a listed standard junction box.

**Features**

- Energy efficient, automatically varies it's power output in response to pipe temperature changes
- Self-limiting, without overheating or burnout even while overlapping
- Installation in residential and commercial area.

**Application**

Area classification	3LTV, 5 LTV, 8 LTV, 10 LTV, 12 LTV: all can use for pipe tracing 5 LTV, 8 LTV: roof and gutter de-icing
Surface type	Carbon steel, Stainless steel, Plastic, Painted or unpainted metal pipe Standard roof, standing seam metal roof
Chemical resistance	For mild inorganic solutions: use -CR (modified polyolefin outer jacket) For aggressive organics and corrosives consult your local Xuhui representative

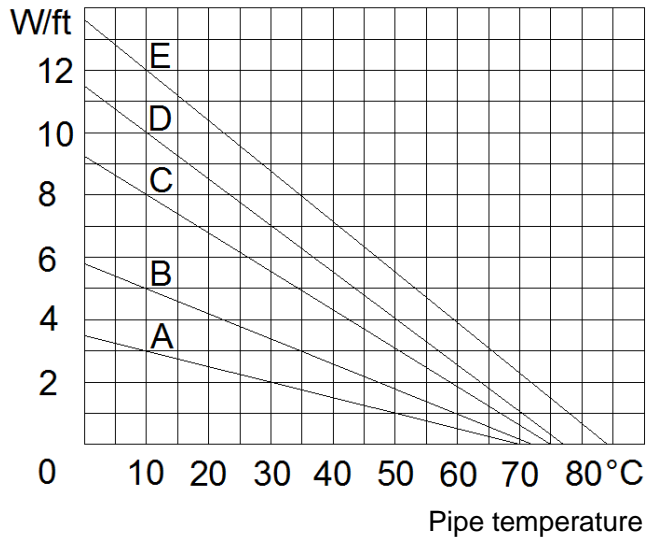
**Specifications**

Supply voltage	120V, 240V Contact your local Xuhui representative for data on other voltages
Maximum maintain or continuous exposure temperature (power on/off)	65°C
Maximum intermittent exposure temperature (power on/off)	85°C Maximum cumulative exposure 1000 hours
Minimum installation temperature	-20°C
Minimum bend radius	at 20°C: 13mm at -20°C: 35mm
Product	LTV-CR
Thickness (mm)	6
Width (mm)	13

### Thermal output rating

Nominal power output at 120Vac (LTV1) and 240Vac (LTV2) insulated on steel pipes		W/ft @ 10°C
A	3LTV1, 3LTV2	3
B	5LTV1, 5LTV2	5
C	8LTV1, 8LTV2	8
D	10LTV1, 10LTV2	10
E	12LTV1, 12LTV2	12

Heating cable sets 5LTV (8w/ft@0°C) and 8LTV (15w/ft@0°C) are covered for roof and gutter de-icing.

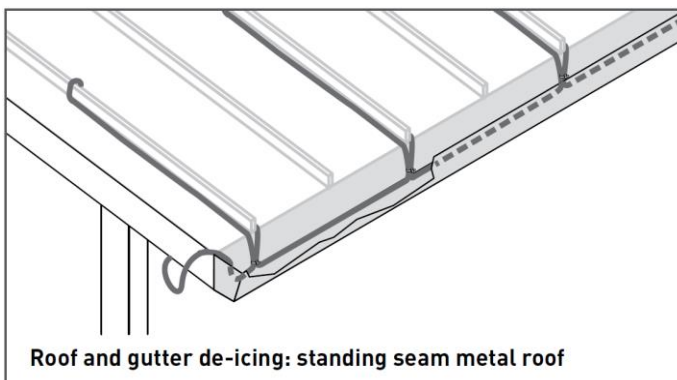
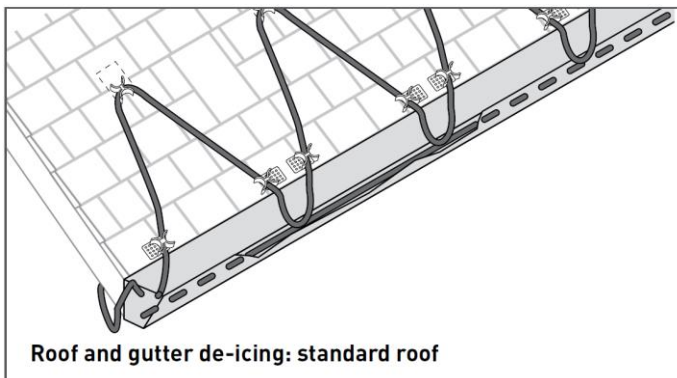
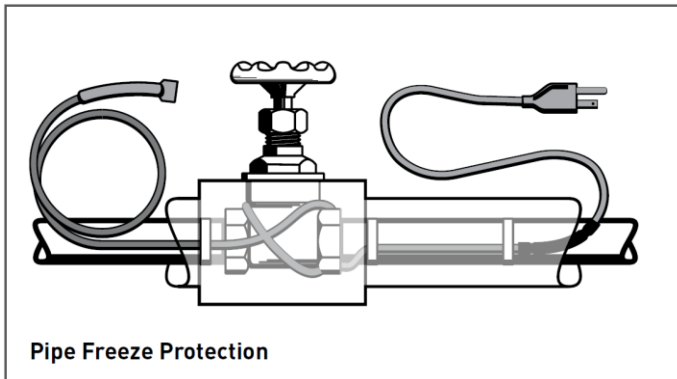


### Maximum circuit lengths (ft) based on circuit breaker sizes

Products	Ambient temperature at start-up	Maximum circuit length (in feet) per circuit breaker							
		120V				240V			
		15A	20A	25A		15A	20A	25A	
<b>LTV with 16awg conductors</b>									
3LTV	50°F (10°C)	330	330	330		660	660	660	
	0°F (-20°C)	200	250	300		400	500	600	
5LTV	50°F (10°C)	230	270	270		460	540	540	
	0°F (-20°C)	140	190	240		280	380	480	
8LTV	50°F (10°C)	150	180	200		300	360	400	
	0°F (-20°C)	100	130	160		200	260	320	
10LTV	50°F (10°C)	120	140	160		240	280	320	
	0°F (-20°C)	80	110	140		160	220	280	
12LTV	50°F (10°C)	100	120	140		200	240	280	
	0°F (-20°C)	70	90	110		140	180	220	
8w/ft	32°F (0°C)	100	120	140		200	240	280	
15w/ft	32°F (0°C)	60	75	90		120	150	180	
<b>LTV with 18awg conductors</b>									
3LTV	50°F (10°C)	250	250	250		500	500	500	
	0°F (-20°C)	200	200	200		400	400	400	
5LTV	50°F (10°C)	180	180	180		360	360	360	
	0°F (-20°C)	140	160	160		280	320	320	
8LTV	50°F (10°C)	150	150	150		300	300	300	
	0°F (-20°C)	100	130	130		200	260	260	
10LTV	50°F (10°C)	120	130	130		240	260	260	
	0°F (-20°C)	80	110	110		160	220	220	
12LTV	50°F (10°C)	100	110	110		200	220	220	
	0°F (-20°C)	70	90	90		140	180	180	
8w/ft	32°F (0°C)	100	120	120		200	240	240	
15w/ft	32°F (0°C)	60	75	90		120	150	180	

The above numbers are for circuit length estimation only. For more detailed information please contact your local Xuhui representative. Xuhui requires the use of a 30 mA residual current device to provide maximum safety and protection from fire. Where design results in higher leakage current, the preferred trip level for adjustable devices is 30 mA above any inherent capacitive leakage characteristic of the heater as specified by the trace heater supplier or alternatively, the next common available trip level for non adjustable devices, with a maximum of 300 mA. All safety aspects need to be proven.

### Typical installation



### Components

Xuhui offers a full range of components for power connections, splices and end seals. These components must be used to ensure proper functioning of the product and compliance with electrical requirements.