Self-Regulating Heating Cable LTL

LTL is an industrial-grade self-regulating heating cable that can be used for freeze protection of pipelines and vessels and also for snow and ice prevention on roofs and gutters in non-hazardous areas.

The power output adjusts automatically in response to the ambient temperature.

Due to its self-regulating characteristics it will not overheat even when the cable is overlapped. This guarantees maximum safety and reliability.

Installation of LTL heating cable is quick and simple and requires no special skills or tools. Thanks to its parallel construction the heating cable can be fitted on site to exact length without any complicated design calculations.

Termination, splicing and power connection components are available in convenient kits.

Features

- 15, 20, 25 or 30 W/m
- Self-regulating, automatically adjusts power output in response to ambient temperature
- Thermoplastic outer jacket
- Easy to install
- Can be cut to required length on site without any complicated design calculations
- Will not overheat even when overlapped
- Full range of accessories available
- UV-resistant

Application Areas

- Freeze protection of pipelines and vessels (non-Ex)
- Snow and ice prevention on roofs and gutters (non-Ex)

Construction

1. 1.00 mm^2 nickel-plated copper conductors
2. Semi-conductive self-regulating matrix
3. Matrix insulation
4. Aluminum foil with drainage wire or tinned copper braid
5. Thermoplastic outer jacket

Technical Data

Rated voltage	230 VAC
Maximum continuous operating temperature (trace heater energized)	+65 °C
Maximum continuous exposure temperature (trace heater de-energized)	+85 °C
Ambient temperature range	–60 … +55 °C
Minimum installation temperature:	
Thermoplastic outer jacket	-30 °C
Minimum bending radius	25 mm
Maximum screen resistance	18 Ohm/km
Maximum braiding resistance	10 Ohm/km
Conductor cross-section	1.00 mm^2
Dimension:	
Thermoplastic elastomer outer jacket, aluminum foil	10.20×5.70 mm
Thermoplastic elastomer outer jacket, braiding	10.90×6.00 mm
Weight:	
Thermoplastic elastomer outer jacket, aluminum foil	86 kg/km
Thermoplastic elastomer outer jacket, braiding	113 kg/km

Maximum Heating Circuit Length

For use with type C circuit breakers according to IEC 60898-1:2015

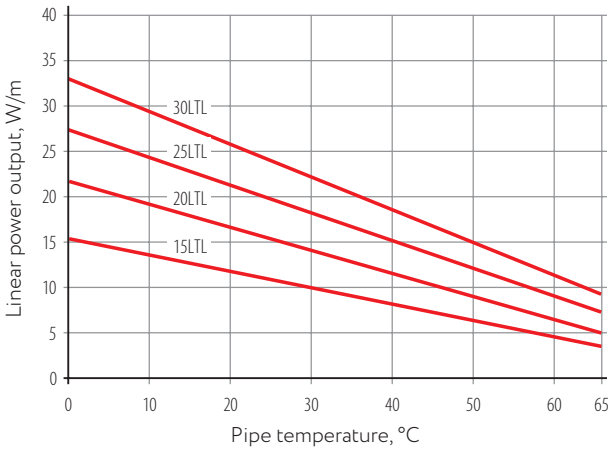
Type	Turn-on temperature, °C	Heating circuit length/m at 230 VAC 10 A	16 A
15LTL	10	92	120
	-20	51	69
20LTL	10	70	97
	-20	37	51
	In gutters	60	80
25LTL	10	53	73
	-20	28	41
30LTL	10	40	62
	-20	18	35

Approvals

CE

Power Output Curve

Nominal power output at rated voltage 230 VAC



Marking

Example: 15LTL-BT

1. Linear power output, W/m at +10 °C
2. Cable type
3. Screen type: B – tinned copper wire braiding, A – aluminum foil screen
4. Outer jacket material: T – Thermoplastic elastomer

Types

Outer jacket type	Order code	Outer jacket color	Name	Power output, W/m
Thermoplastic elastomer outer jacket, aluminum foil	1101001000	Black	15LTL-AT	15
	1101001001		20LTL-AT	20
	1101001002		25LTL-AT	25
	1101001003		30LTL-AT	30
Thermoplastic elastomer outer jacket, braiding	1101001004	Black	15LTL-BT	15
	1101001005		20LTL-BT	20
	1101001006		25LTL-BT	25
	1101001007		30LTL-BT	30