

Self-Regulating Heating Cable LTR

LTR 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 LTR 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.

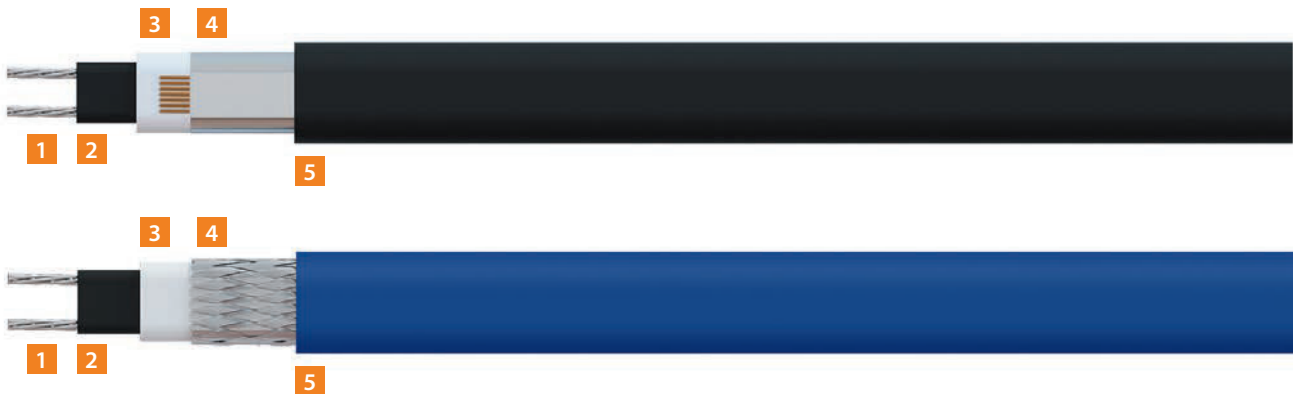
Termination, splicing and power connection components are available in convenient kits.

Features

- 10, 20, 30 or 40 W/m
- Self-regulating, automatically adjusts power output in response to ambient temperature
- Thermoplastic and fluoropolymer 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 and high chemical resistance (fluoropolymer)

Application Areas

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



Construction

1. 1.25 mm² nickel-plated copper conductors
2. Semi-conductive self-regulating matrix
3. Matrix insulation
4. Aluminum foil with drainage wires or tinned copper braid
5. Thermoplastic or fluoropolymer outer jacket

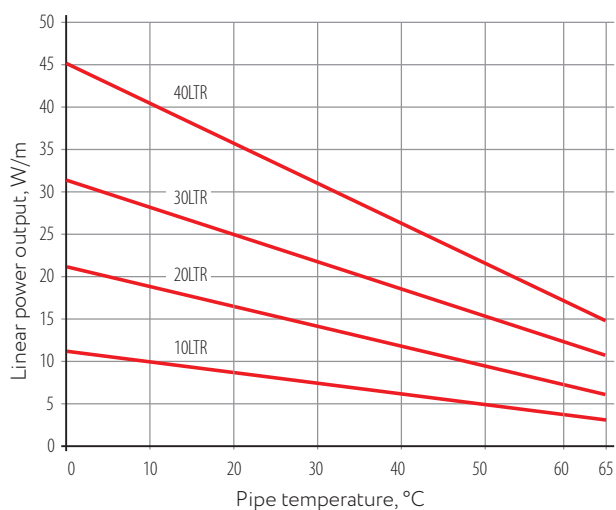
Self-Regulating Heating Cables

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
Fluoropolymer outer jacket	-60 °C
Minimum bending radius	25 mm
Maximum screen resistance	18 Ohm/km
Maximum braiding resistance	10 Ohm/km
Conductor cross-section	1.25 mm ²
Dimension:	
Thermoplastic elastomer outer jacket, aluminum foil	12.50×5.80 mm
Thermoplastic elastomer outer jacket, braiding	13.20×6.10 mm
Fluoropolymer outer jacket, braiding	12.80×5.70 mm
Weight:	
Thermoplastic elastomer outer jacket, aluminum foil	106 kg/km
Thermoplastic elastomer outer jacket, braiding	141 kg/km
Fluoropolymer outer jacket, braiding	152 kg/km

Power Output Curve

Nominal power output at rated voltage 230 VAC



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 16 A
10LTR	10	180
	-20	108
20LTR	10	102
	-20	53
	In gutters	65
30LTR	10	62
	-20	40
40LTR	10	49
	-20	27

Approvals



Marking

Example: 15LTR-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, P – Fluoropolymer

Types

Outer jacket type	Order code	Outer jacket color	Name	Power output, W/m
Thermoplastic elastomer outer jacket, aluminum foil	1101002000	Black	10LTR-AT	10
	1101002002		20LTR-AT	20
	1101002004		30LTR-AT	30
	1101002005		40LTR-AT	40
Thermoplastic elastomer outer jacket, braiding	1101002006	Black	10LTR-BT	10
	1101002008		20LTR-BT	20
	1101002010		30LTR-BT	30
	1101002011		40LTR-BT	40
Fluoropolymer outer jacket, braiding	1101002012	Blue	10LTR-BP	10
	1101002014		20LTR-BP	20
	1101002016		30LTR-BP	30
	1101002017		40LTR-BP	40