

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 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 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)



Construction

1. 1.25 mm² nickel-plated copper conductors
2. Semi-conductive self-regulating matrix
3. Matrix insulation
4. Tinned copper braid
5. Thermoplastic or fluoropolymer outer jacket

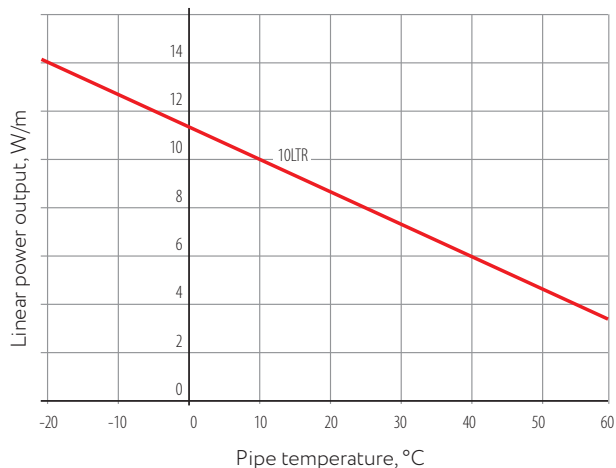
Self-Regulating Heating Cables

Technical Data

Rated voltage	24 V
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 braiding resistance	10 Ohm/km
Conductor cross-section	1.25 mm ²
Dimension:	
Thermoplastic elastomer outer jacket, braiding	13.20×6.10 mm
Fluoropolymer outer jacket, braiding	12.80×5.70 mm
Weight:	
Thermoplastic elastomer outer jacket, braiding	141 kg/km
Fluoropolymer outer jacket, braiding	152 kg/km

Power Output Curve

Nominal power output at rated voltage 24 V



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 at 24 V, m	
		10 A	16 A
10LTR	10	14	18
	0	12	18
	-20	12	16

Approvals



Marking

Example: 10LTR24-BT

① ② ③ ④ ⑤

1. Linear power output, W/m at +10 °C
2. Cable type
3. Supply voltage
4. Screen type: B – tinned copper wire braiding
5. 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, braiding	1105022904	Black	10LTR24-BT	10
Fluoropolymer outer jacket, braiding	1111022910	Blue	10LTR24-BP	10