

# HTB

**Self-regulating electrical heating tape for freeze protection or temperature maintenance of industrial pipelines and vessels in safe and hazardous areas**

- Automatically adjusts heat output in response to increasing or decreasing pipe temperature
- Can be cut to required length without damage to its properties
- Will not overheat or burnout even if self-overlapped

- Full range of controls and accessories
- Approved for safe use in hazardous and corrosive areas
- Operating voltage 22–24 V (11–12 V on request)



1. 1.1 mm<sup>2</sup> Tinned copper conductors
2. Semi-conductive self-limiting matrix
3. Thermoplastic elastomer insulation
4. Tinned copper braid
5. Optional outer jacket

## Design options

- HTB...BT The thermoplastic elastomer outer jacket over tinned copper braid or combined braid ensures additional protection.
- HTB...BP Fluoroplastic outer jacket over tinned copper braid provides protection where corrosive chemical solutions or vapors may be present.

## Features

HTB is an industrial grade self-regulating heating tape rated for light load that can be used to prevent freezing of pipes or to maintain the preset temperature of industrial pipelines and vessels in the construction and refrigeration industries as well as automobile transportation.

It can be cut to length on site and exact piping length can be matched without any complicated design considerations.

HTB is certified for use in safe and explosion hazardous environments against international standards as well as GOST R 51330 and GOST R IEC 62086 standards

Its self-regulating characteristics improve safety and reliability. HTB will not overheat or burnout even when overlapped upon itself. The heat output adjusts automatically in response to temperature change.

The installation of HTB heating tape is quick and simple and requires no special skills or tools. Termination, splicing and power connection components are all provided in convenient kits.

### Technical data

Maximum temperature	65 °C
Maximum allowable temperature de-energized (1000 hours cumulative)	85 °C
Ambient temperature range	-60...+55 °C
Minimum installation temperature	-60 °C
Power supply (11–24 V on request)	22–24 V
Temperature classification	T6
Maximum resistance of the protective braid, not more than	10 Ohm/km

### Dimensions and weights

Type	Nominal dimensions, mm	Weight, kg/100 m	Minimum bending radius*, mm
HTB...BT	10.5x5.9	10.5	30
HTB...BP	10.5x5.9	12.0	30

\* The minimum bending radius at -20 °C is shown.

### Approval details



Certificate of conformity IEC Ex for self-regulating heating tapes NdEEx CCVE 12.0002X.



Certificate of conformity to the requirements of Customs Union Technical Regulation No. 012/2011 «On safety of equipment intended for use in explosive atmospheres» TC RU C-RUБ05B.0528 for self-regulating heating tapes with explosion protection marking 1Ex e IIC T3...T6 Gb X.



Certificate of Conformity to Technical Regulations on Fire Safety for self-regulating heating tapes No. C-RUБ37.B.01460.

### Maximum length of heating section, m

(or overall length of sections of the same type, connected in parallel) vs circuit breaker type

Type	Turn-on temperature, °C	24 V		
		6 A	10 A	16 A
12HTB	5	8	14	20
	0	8	12	20
	-20	6	10	16
	-40	4	8	12
17HTB	5	6	10	16
	0	6	10	16
	-20	6	8	14
	-40	4	8	12

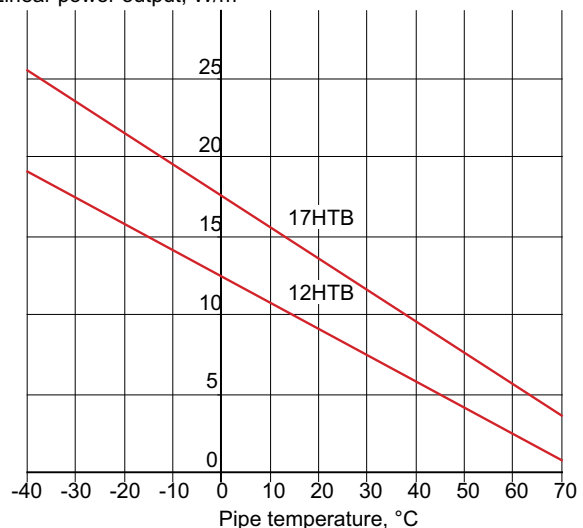
For use with type C circuit breakers according to GOST R 50345-2010 (IEC 60898-1:2003)

\*An inrush current (starting current) appears at the moment of turning on the heating section. The current value stabilizes within 5 minutes after turning on. Maximum starting current can be 5–6 times higher than the rated current value of the circuit breaker

### Thermal ratings

Nominal heat output at operating voltage 12 V or 24 V, when self-regulating heating tapes operate in normal conditions.

Linear power output, W/m



### Ordering information

Example: 12HTB24-BT

- Linear power output 12 W/m (according to IEC 60079-1-30)
- Type of self-regulating heating tape: HT—low temperature
- Tape design version: B—low voltage
- Supply voltage: 12—11–12 V, 22—22–24 V
- Braid material: B—tinned copper wire
- Outer jacket material: T—thermoplastic elastomer, P—fluoropolymer

### Accessories

A range of accessories includes component parts for power supply, splice and termination of the heating tape and a control unit. We recommend using original accessories made by SST Company to ensure trouble-free operation and meeting safety standards and requirements.