

# BTX

- 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

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

- High power output – up to 95 W/m
- Full range of controls and accessories
- Operating voltage 220–240 VAC (110–120 VAC on request)

**Temperature resistance up to 250°C**



1. 1.25 mm<sup>2</sup> Tinned copper conductors
2. Semi-conductive self-limiting matrix
3. Fluoroplastic insulation
4. Nickel plated copper braid
5. Fluoroplastic outer jacket

## Design options

BTX...BP Fluoroplastic outer jacket over nickel plated copper braid provides protection where corrosive chemical solutions or vapors may be present.

## Features

BTX is an industrial grade self-regulating heating tape that can be used for freeze protection or temperature maintenance of industrial pipelines and vessels (and other process equipment) as well as a component part of systems where high temperatures affect the heating tape.

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

BTX 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. BTX will not overheat or burnout even when overlapped upon itself. The heat output adjusts automatically in response to temperature change.

The installation of BTX 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	190 °C
Maximum allowable temperature de-energized (1000 hours cumulative)	250 °C
Ambient temperature range	-60...+55 °C
Minimum installation temperature	-60 °C
Power supply (110–120 VAC on request)	220–240 VAC
Temperature classification	T3
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
15BTX...80BTX	12.1×5.4	15.2	30
95BTX	14.4×5.5	19.8	30

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

**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..

**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.

**Ordering information**

Example: 45BTX2-BP

- Linear power output 45 W/m (according to IEC 60079-1-30)
- Type of self-regulating heating tape: BT—high temperature
- Tape design version: X – for industrial use
- Supply voltage: 1 – 110–120 VAC, 2 – 220–240 VAC
- Braid material: B – nickel plated copper wire
- Outer jacket material: P – fluoropolymer

**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	230 V		
		16 A	20 A	32 A
15BTX	10	110	146	165
	-20	99	131	165
	-40	88	117	165
30BTX	10	73	98	110
	-20	70	93	110
	-40	69	91	110
45BTX	10	49	64	82
	-20	43	56	82
	-40	37	49	73
60BTX	10	35	46	70
	-20	34	44	67
	-40	32	43	64
80BTX	10	27	37	52
	-20	24	30	49
	-40	24	30	49
95BTX	10	24	30	43
	-20	21	27	43
	-40	21	27	43

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 115 V or 230 V, when self-regulating heating tapes operate in normal conditions.

Linear power output, W/m

