

Self-Regulating Heating Cable BTX

BTX is an industrial-grade self-regulating heating cable (self-limiting parallel trace heater) that can be used for temperature maintenance or freeze protection of pipelines and vessels. It can be used in non-hazardous and ex-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 BTX 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.

Features

- 8, 15, 30, 45, 60, 75 or 100 W/m
- For medium-high temperatures
- Steam purging possible
- Ex-approved solution
- Self-regulating, automatically adjusts power output in response to ambient temperature
- 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
- Can be used in explosive environments without temperature limiter
- Full range of accessories available
- UV- and chemical-resistant

Application

- Temperature maintenance or freeze protection of pipelines and vessels in non-hazardous and ex-hazardous areas



Construction

1. 1.25 mm² (2.00 mm² for 75 W/m, 100 W/m) nickel-plated copper conductors
2. Semi-conductive self-regulating heating matrix
3. Matrix insulation
4. Tinned copper braid
5. Fluoropolymer outer jacket

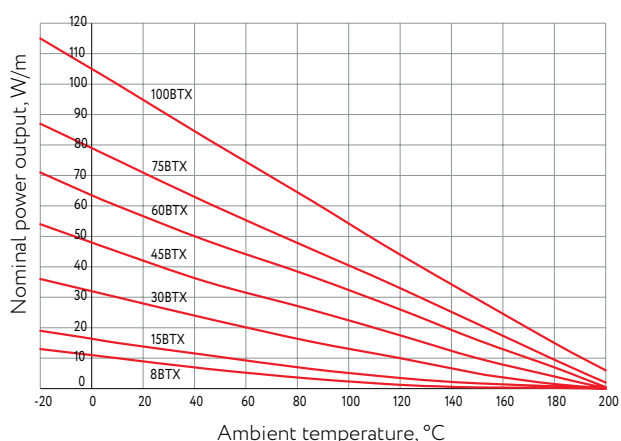
Self-Regulating Heating Cables

Technical Data

Rated voltage	230 VAC
Maximum continuous operating temperature (trace heater energized)	+205 °C
Maximum continuous exposure temperature (trace heater de-energized)	+250 °C
Ambient temperature range	-60 ... +55 °C
Minimum installation temperature: Fluoropolymer outer jacket	-60 °C
Minimum bending radius	25 mm
Maximum resistance – Braiding	10 Ohm/km
Conductor cross-section	1.25 or 2.00 mm ²
Dimension: 8BTX – 60BTX 75BTX, 100BTX	12.1×5.2 mm 14.5×5.9 mm
Weight: 8BTX – 60BTX 75BTX, 100BTX	153 kg/km 211 kg/km

Power Output Curve

Nominal power output at rated voltage 230 VAC



Approvals



CETS 23 ATEX 030X

II 2 GD



8BTX - 60BTX:

Ex 60079-30-1 IIC T3 Gb

Ex 60079-30-1 IIIC T200°C Db

75BTX, 100BTX:

Ex 60079-30-1 IIC 240°C (T2) Gb

Ex 60079-30-1 IIIC T300°C Db

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					
		10A	16A	20 A	25 A	32A	50A
8-BTX	10	84	135	169	186	210	210
	-20	69	109	134	164	205	205
15-BTX	10	76	125	154	175	205	205
	-20	61	107	124	155	200	200
30-BTX	10	52	85	102	120	145	145
	-20	40	69	81	106	140	140
45-BTX	10	38	65	76	88	105	105
	-20	30	50	61	75	95	95
60-BTX	10	30	50	62	74	90	90
	-20	20	35	40	53	70	70
75-BTX	10	–	45	50	65	85	85
	-20	–	35	40	52	68	68
100-BTX	10	–	35	45	55	70	70
	-20	–	30	35	45	59	59

Marking

Example: 15-BTX2-BP

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1. Nominal power output, W/m at +10 °C
2. Cable type
3. Rated voltage: 2 – 230 VAC
4. Screen type: B – Tinned copper wire braiding
5. Outer jacket material: P – Fluoropolymer

Types

Outer jacket type	Order code	Outer jacket color	Name	Power output, W/m
Fluoropolymer outer jacket, braiding	–	Black	8-BTX2-BP	8
	3201004000		15-BTX2-BP	15
	3201004001		30-BTX2-BP	30
	3201004002		45-BTX2-BP	45
	3201004003		60-BTX2-BP	60
	3201004004		75-BTX2-BP	75
	3201004005		100-BTX2-BP	100