

Self-Regulating Heating Cables BTXe

BTXe is an industrial-grade self-regulating heating cable 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 BTXe 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 extra-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 Areas

- 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

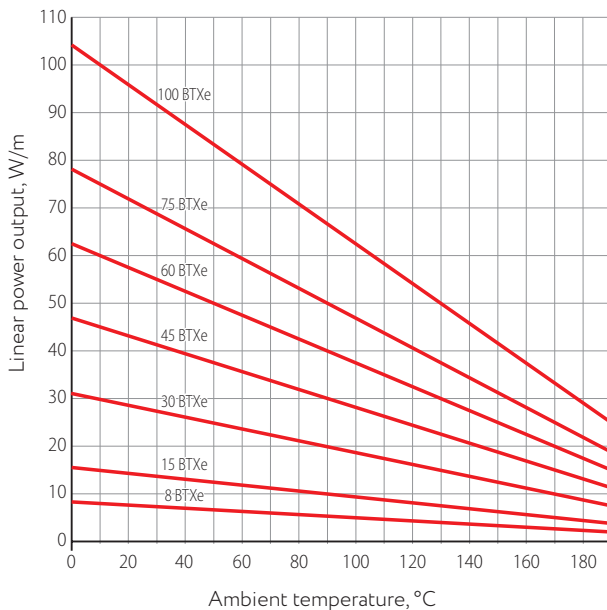
Self-Regulating Heating Cables

Technical Data

Rated voltage	230 VAC
Maximum continuous operating temperature (trace heater energized)	+250 °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
Ex-marking	Ex 60079-30-1 IIC T3 Gb Ex 60079-30-1 IIIC T200°C Db
Maximum resistance – Braiding	10 Ohm/km
Conductor cross-section	1.25 or 2.00 mm ²
Dimension:	
8BTXe – 60BTXe	12.1×5.2 mm
75BTXe, 100BTXe	14.5×5.9 mm
Weight:	
8BTXe – 60BTXe	153 kg/km
75BTXe, 100BTXe	211 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 IEC60898-1:2015

Type	Turn-on temperature, °C	Heating circuit length/m at 230 VAC			
		10A	16A	20A	32A
8-BTXe	10	84	135	169	210
	-20	65	105	129	205
15BTXe	10	76	125	154	205
	-20	59	104	117	200
30BTXe	10	52	85	102	145
	-20	38	66	78	140
45BTXe	10	38	65	76	105
	-20	28	47	58	95
60BTXe	10	30	50	62	90
	-20	18	32	36	67
75BTXe	10	-	45	50	85
	-20	-	33	38	65
100BTX	10	-	35	45	70
	-20	-	29	33	57

Approvals



CETS 23 ATEX 030X

II 2 GD



Ex 60079-30-1 IIC T3 Gb

Ex 60079-30-1 IIIC T200°C Db

Marking

Example: 15BTXe2-BP

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- Nominal power output, W/m at +10 °C
- Cable type
- Supply voltage: 2 – 230 VAC
- Screen type: B – Tinned copper wire braiding
- Outer jacket material: P – Fluoropolymer

Types

Outer jacket type	Outer jacket color	Name	Power output, W/m
Fluoro-polymer outer jacket, braiding	Black	8BTXe2-BP	8
		15BTXe2-BP	15
		30BTXe2-BP	30
		45BTXe2-BP	45
		60BTXe2-BP	60
		75BTXe2-BP	75
		100BTXe2-BP	100