

# Self-Regulating Heating Cable BTC



BTC 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.

Because of its self-regulating characteristics it will not overheat even when the cable is overlapped. This guarantees maximum safety and reliability.

The installation of BTC heating cable is quick and simple and requires no special skills or tools. Because of its parallel construction the heating cable can be fitted on site to exact length without any complicated design calculations.

## Features

- 15, 30, 45 or 60 W/m
- Steam purging possible
- Ex-approved solution
- Self-regulating, automatically adjusts power output in response to ambient temperature
- Fluoropolymer overjacket
- 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 mm<sup>2</sup> nickel-plated copper conductors
2. Semi-conductive self-regulating matrix
3. Matrix insulation
4. Tinned copper braid
5. Overjacket (Fluoropolymer)



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## Technical Data

Rated voltage	230 VAC
Maximum continuous operating temperature (trace heater energized)	120 °C
Maximum continuous exposure temperature (trace heater de-energized)	200 °C
Ambient temperature range	-60 ... +55 °C
Minimum installation temperature: Fluoropolymer overjacket	-60 °C
Minimum bending radius	25 mm
Maximum braiding resistance	10 Ohm/km
Conductor cross-section	1.25 mm <sup>2</sup>
Dimension: Fluoropolymer overjacket	12.80x5.70 mm
Weight: Fluoropolymer overjacket	152 kg/km

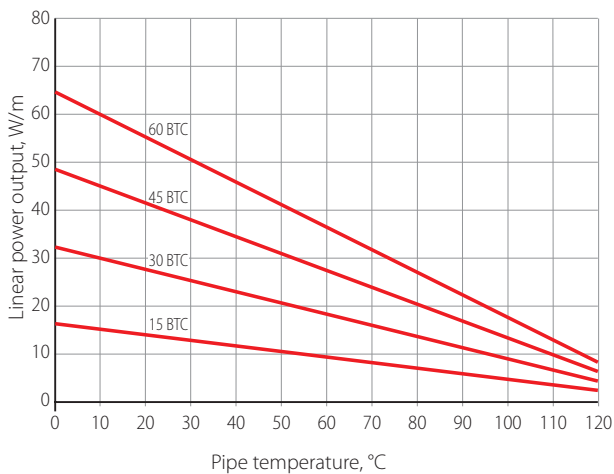
## Max. Heating Circuit Length

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		
		16A	20A	32A
15BTC	10	165	200	-
	-20	117	152	189
30BTC	10	90	120	-
	-20	73	97	120
45BTC	10	70	82	-
	-20	49	66	82
60BTC	10	51	66	-
	-20	39	53	66

## Power Output Curve

Nominal power output at rated voltage 230 VAC.



## Approvals



II 2 GD  
Ex 60079-30-1 IIC T3 Gb  
Ex 60079-30-1 IIIC T200°C Db  
Certificate No:  
Sira 17ATEX3335U  
Sira 18ATEX3038X



Certificate No:  
IECEX CCVE 17.0006U  
IECEX CCVE 17.0007X



## Marking

Example: 15BTC2-BP



## Types

Overjacket type	Order code	Overjacket color	Name	Power output, W/m
Fluoropolymer overjacket, braiding	3201003000	Red	15BTC2-BP	15
	3201003002		30BTC2-BP	30
	3201003004		45BTC2-BP	45
	3201003005		60BTC2-BP	60

