Self-Regulating Heating Cable HTP

HTP 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 HTP 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

- 10, 20, 33 or 40 W/m
- Ex-approved solution
- Self-regulating, automatically adjusts power output in response to ambient temperature
- Thermoplastic or 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 (flouropolymer)

Application Areas

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

Construction

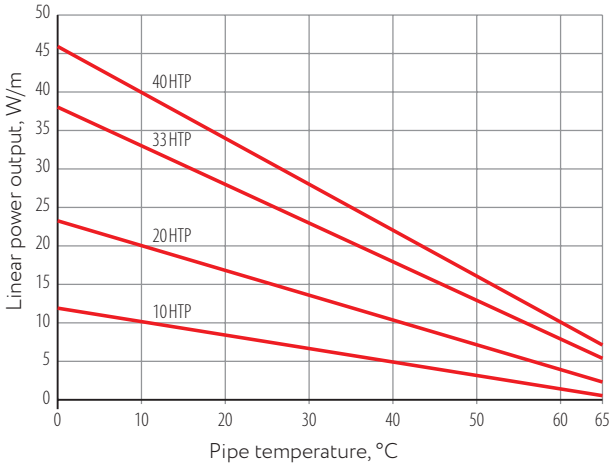
1. 1.25 mm^2 nickel-plated copper conductors
2. Semi-conductive self-regulating matrix
3. Matrix insulation
4. Tinned copper braid
5. Thermoplastic or fluoropolymer outer jacket

Technical Data

Rated voltage	230 VAC
Maximum continuous operating temperature (trace heater energized)	+65 °C
Maximum continuous exposure temperature (trace heater de-energized)	+85 °C
Ambient temperature range	–60 … +55 °C
Minimum installation temperature: Thermoplastic elastomer outer jacket Fluoropolymer outer jacket	 -30 °C -60 °C
Minimum bending radius	25 mm
Maximum braiding resistance	10 Ohm/km
Conductor cross-section	1.25 mm^2
Dimension: Thermoplastic elastomer outer jacket Fluoropolymer outer jacket	 13.20 × 6.10 mm 12.80 × 5.70 mm
Weight: Thermoplastic elastomer outer jacket Fluoropolymer outer jacket	 141 kg/km 152 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 IEC 60898-1:2015

Type	Turn-on temperature, °C	Heating circuit length/m at 230 VAC 16A	20A	32A
10HTP	10	205	–	–
	-20	123	165	195
20HTP	10	116	140	–
	-20	60	80	115
33HTP	10	70	90	108
	-20	45	58	85
40HTP	10	56	73	91
	-20	31	47	72

Approvals

II 2 GD
Ex 60079-30-1 IIC T6 Gb
Ex 60079-30-1 IIIC T85°C Db

Sira 17ATEX3335U
Sira 18ATEX3038X

IECEx CCVE 17.0006U
IECEx CCVE 17.0007X

Marking

Example: 33HTP2-BT
① ② ③ ④ ⑤

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

Types

Outer jacket type	Order code	Outer jacket color	Name	Power output, W/m
Thermoplastic elastomer outer jacket, braiding	3201002006	Black	10HTP2-BT	10
	3201002008		20HTP2-BT	20
	3201002010		33HTP2-BT	33
	3201002011		40HTP2-BT	40
Fluoropolymer outer jacket, braiding	3201002012	Blue	10HTP2-BP	10
	3201002014		20HTP2-BP	20
	3201002016		33HTP2-BP	33
	3201002017		40HTP2-BP	40