

Self-Regulating Heating Cable HTA

HTA 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 HTA 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

- 15, 20 or 30 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 (fluoropolymer)

Application Areas

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



Construction

1. 1.00 mm² nickel-plated copper conductors
2. Semi-conductive self-regulating matrix
3. Matrix insulation
4. Tinned copper braid
5. Thermoplastic or fluoropolymer outer jacket

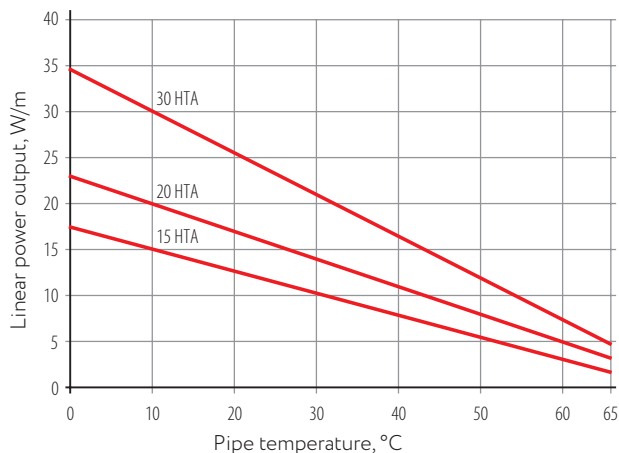
Self-Regulating Heating Cables

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 | -30 °C |
| Fluoropolymer outer jacket | -60 °C |
| Minimum bending radius | 25 mm |
| Maximum braiding resistance | 10 Ohm/km |
| Conductor cross-section | 1.00 mm ² |
| Dimension: | |
| Thermoplastic elastomer outer jacket | 10.90 × 6.00 mm |
| Fluoropolymer outer jacket | 10.50 × 5.60 mm |
| Weight: | |
| Thermoplastic elastomer outer jacket | 113 kg/km |
| Fluoropolymer outer jacket | 122 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 | |
|-------|-------------------------|-------------------------------------|-----|
| | | 10A | 16A |
| 15HTA | 10 | 104 | 136 |
| | -20 | 58 | 78 |
| 20HTA | 10 | 79 | 110 |
| | -20 | 42 | 58 |
| 30HTA | 10 | 45 | 70 |
| | -20 | 20 | 40 |

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: 15HTA2-BT

① ② ③ ④ ⑤

1. Linear power output, W/m at +10 °C
2. Cable type
3. Supply voltage: 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 | 3201001006 | Black | 15HTA2-BT | 15 |
| | 3201001007 | | 20HTA2-BT | 20 |
| | 3201001009 | | 30HTA2-BT | 30 |
| Fluoropolymer outer jacket, braiding | 3201001012 | Blue | 15HTA2-BP | 15 |
| | 3201001013 | | 20HTA2-BP | 20 |
| | 3201001015 | | 30HTA2-BP | 30 |