

# Self-Regulating Heating Cable HTA

HTA 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.

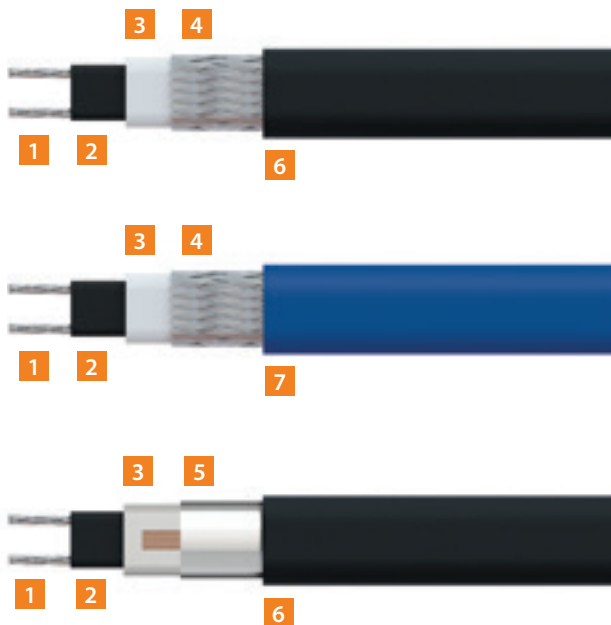
Installation of HTA heating cable is quick and simple and requires no special skills or tools. Thanks to its parallel construction the heating cable can be fitted on site to exact length without any complicated design calculations.

## Features

- 10, 15, 25 or 30 W/m
- Ex-approved solution
- Self-regulating, automatically adjusts power output in response to ambient temperature
- Thermoplastic elastomer 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

- 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 heating matrix
3. Matrix insulation
4. Tinned copper braid
5. Al/PET tape with drain conductor
6. Thermoplastic elastomer outer jacket
7. Fluoropolymer outer jacket

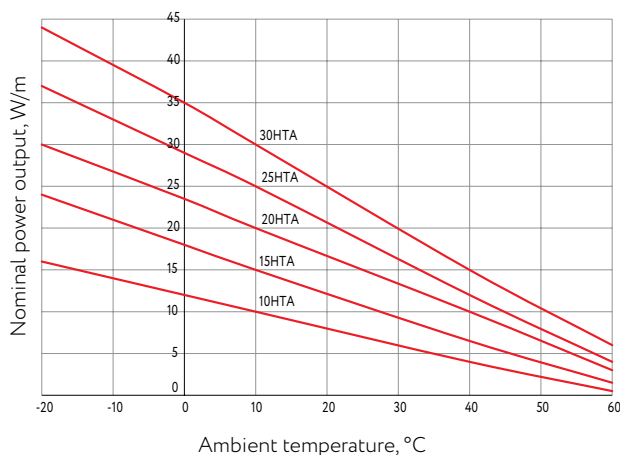
# Self-Regulating Heating Cables

## 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 resistance	
- Braiding	10 Ohm/km
- Al/PET foil with drain conductor	18.2 Ohm/km
Conductor cross-section	1.00 mm <sup>2</sup>
Dimension:	
Thermoplastic elastomer outer jacket	
- Braiding	10.9×6.0 mm
- Al/PET tape with drain conductor	10.7×5.3 mm
Fluoropolymer outer jacket, braiding	10.5×5.6 mm
Weight:	
Thermoplastic elastomer outer jacket	
- Braiding	109 kg/km
- Al/PET tape with drain conductor	89 kg/km
Fluoropolymer outer jacket, braiding	120 kg/km

## Power Output Curve

Nominal power output at rated voltage 230 VAC



## Approvals



CETS 23 ATEX 030X

II 2 GD

Ex 60079-30-1 IIC T6 Gb

Ex 60079-30-1 IIIC T85°C Db



## Maximum Heating Circuit Length

For use with type C circuit breakers according to IEC 60898-1:2015

Cable Type	Switch-on temperature, °C	Heating circuit length/m at 230 VAC				
		10 A	16 A	20 A	25 A	32 A
10-HTA	10	130	160	190	190	190
	-20	90	140	160	160	170
15-HTA	10	120	150	170	170	175
	-20	85	140	140	140	140
20-HTA	10	90	140	150	150	160
	-20	65	110	115	115	120
25-HTA	10	55	90	115	125	140
	-20	40	65	80	85	95
30-HTA	10	40	65	85	100	115
	-20	30	50	65	70	80

## Marking

Example: 15-HTA2-BT

① ② ③ ④ ⑤

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, A – Al/PET tape with drain conductor
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, Al/PET tape with drain conductor	3201101900	Black	10-HTA2-AT	10
	3201101901		15-HTA2-AT	15
	3201101902		20-HTA2-AT	20
	3201101903		25-HTA2-AT	25
	3201101904		30-HTA2-AT	30
Thermoplastic elastomer outer jacket, braiding	3201101013	Black	10-HTA2-BT	10
	3201101004		15-HTA2-BT	15
	3201101005		20-HTA2-BT	20
	3201101006		25-HTA2-BT	25
	3201101007		30-HTA2-BT	30
Fluoropolymer outer jacket, braiding	–	Blue	10-HTA2-BP	10
	3201101008		15-HTA2-BP	15
	3201101009		20-HTA2-BP	20
	3201101010		25-HTA2-BP	25
	3201101011		30-HTA2-BP	30