Self-Regulating Heating Cable HTM

HTM is an industrial-grade self-regulating heating cable (self-limiting parallel trace heater) that can be used for 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 HTM 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.

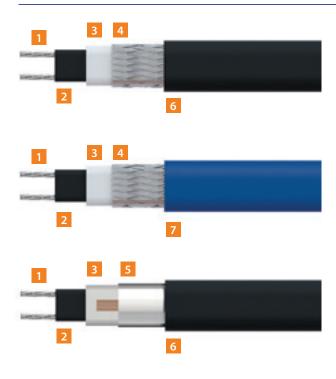
Features

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

Freeze protection of pipelines and vessels in non-hazardous and ex-hazardous areas



Construction

- 1. 0.56 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

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 resistance - Braiding - Al/PET foit with drain conductor	10 Ohm/km 18.2 Ohm/km	
Conductor cross-section	0.56 mm ²	
Dimension: Thermoplastic elastomer outer jacket - Braiding - Al/PET tape with drain conductor Fluoropolymer outer jacket, braiding	9.0×5.8 mm 8.7×5.1 mm 8.6×5.4 mm	
Weight: Thermoplastic elastomer outer jacket - Braiding - Al/PET tape with drain conductor Fluoropolymer outer jacket, braiding	69 kg/km 88 kg/km 97 kg/km	

Maximum Heating Circuit Length

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

Cable Type	Switch-on temperature, °C	Recommended maximum length depend on Type C circuit breaker, m		
		10 A	16 A	
10-HTM	10	130	130	
	-20	110	110	
15-HTM	10	120	120	
	-20	85	85	

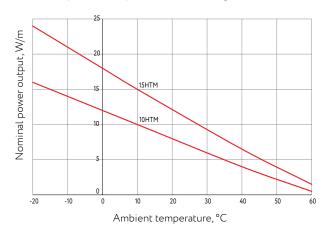
Marking

Example: 15-HTM2-BT

- 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

Power Output Curve

Nominal power output at rated voltage 230 VAC



Types

Outer jacket type	Order code	Outer jacket color	Name	Power output, W/m
Thermoplastic elastomer outer jacket, Al/PET tape with drain conductor	3201100000	- Black	10-HTM2-AT	10
	3201100001		15-HTM2-AT	15
Thermoplastic elastomer outer jacket, braiding	3201100002	- Black	10-HTM2-BT	10
	3201100003		15-HTM2-BT	15
Fluoropolymer outer jacket, braiding	3201100004	- Blue	10-HTM2-BP	10
	3201100005		15-HTM2-BP	15

Approvals



CETS 23 ATEX 030X II 2 GD Ex 60079-30-1 IIC T6 Gb Ex 60079-30-1 IIIC T85°C Db

