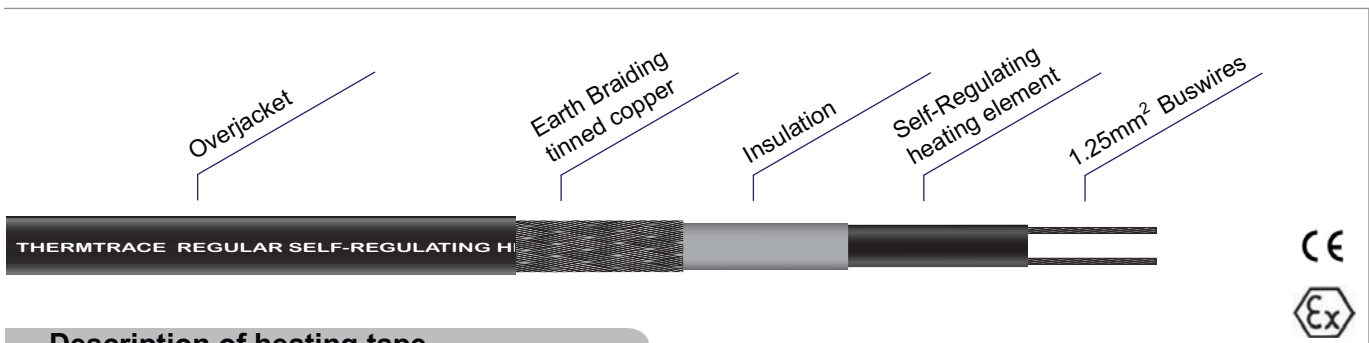


# ThermTrace<sup>®</sup> Regular (TTR) Self-Regulating parallel heating tape

up to 85°C



## Description of heating tape

- Self-regulating
- 5 power output ranges
- Proprietary bonded jacket

### Applications:

ThermTrace<sup>®</sup>Regular is a construction and industrial grade self-regulating heating tape that may be used for freeze protection, or low temperature maintenance of pipework and vessels.

### Function:

Self-regulating heating tapes consist of two parallel buswires, embedded in a semi-conductive self-regulating matrix. This means that the heating cable automatically responds to changes in ambient conditions.

With increase in temperature, the synthetic material expands by molecular force, and the connections between the carbon particles diminish, reducing the load. Conversely, as the temperature decreases, the load increases as the connections between the carbon particles increases accordingly.

Thus, the heating power varies according to the temperature of the surface the heating tape is applied to.

Self-regulating heating tapes will not overheat or burnout - even when overlapped.

### Technical Data:

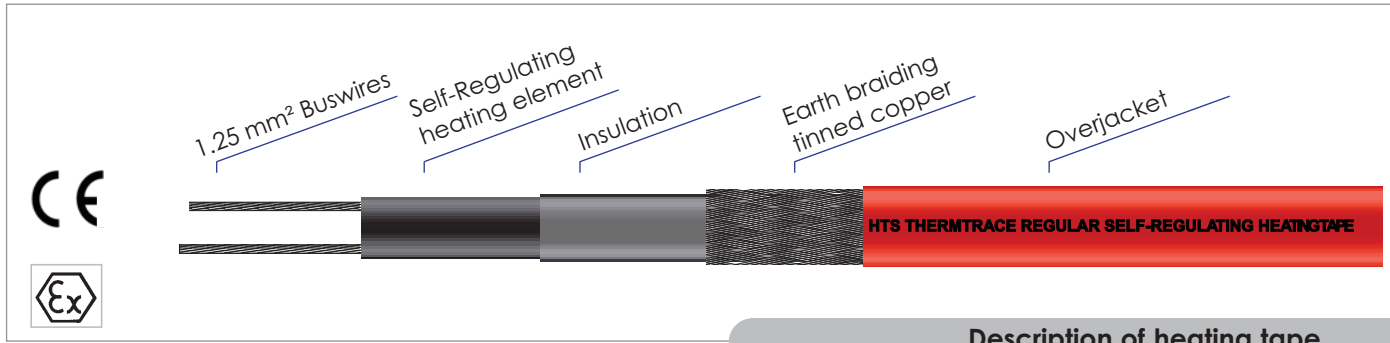
Maximum exposure temperature (unpowered) Intermittent, 1000 cumulative hours	85°C
Maximum operating temperature (powered)	65°C
Nominal voltage	230V (120V available to order)
Minimum bending radius	25mm
Minimum installation temperature	-30°C
Maximum resistance of braid	18.2 Ohms/km
Fluoropolymer Overjacket	optional
T-Rating 10,15,25 W/m	T6
T-Rating 33 W/m	T5

Name	Power Output On Insulated Metal Pipes at 10°C (W/m)	Maximum Permissible Temperature (°C)	Earth Braid Description	Nominal Dimensions (mm)	Nominal Weight kg/100m
10TTR-2-BO	10	65	tinned copper	11.5 x 5.5	12
10TTR-2-BOT	10	65	tinned copper	11.5 x 5.5	12
15TTR-2-BO	15	65	tinned copper	11.5 x 5.5	12
15TTR-2-BOT	15	65	tinned copper	11.5 x 5.5	12
20TTR-2-BO	20	65	tinned copper	11.5 x 5.5	12
20TTR-2-BOT	20	65	tinned copper	11.5 x 5.5	12
25TTR-2-BO	25	65	tinned copper	11.5 x 5.5	12
25TTR-2-BOT	25	65	tinned copper	11.5 x 5.5	12
33TTR-2-BO	33	65	tinned copper	11.5 x 5.5	12
33TTR-2-BOT	33	65	tinned copper	11.5 x 5.5	12

BO: Braid and thermoplastic overjacket  
BOT: Braid and fluoropolymer overjacket

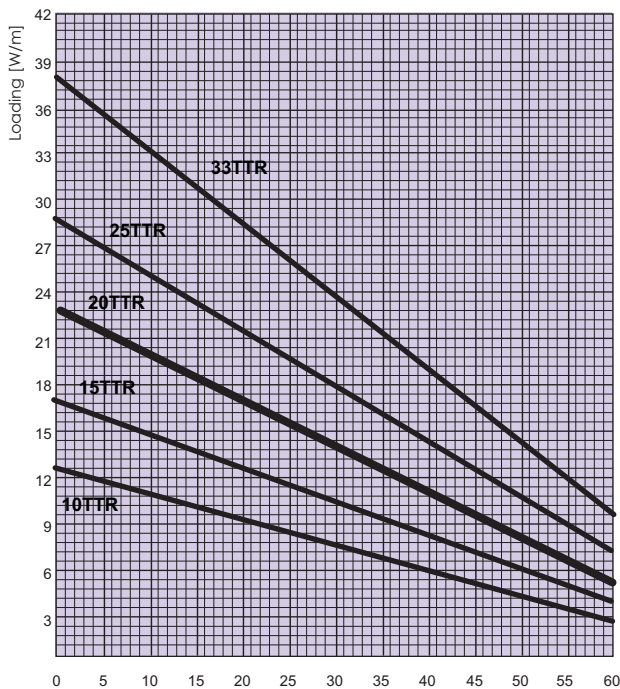
up to 85°C

# ThermTrace® Regular (TTR) Self-Regulating parallel heating tape



Description of heating tape

## Temperature/Loading diagram TTR



Surface temperature on insulated metal pipes [°C]

Maximum recommended length of heating circuit at 230VAC using Type-C circuit breakers:

Product Reference	Circuit Breaker	Start up Temperature		
		+10°C	-15°C	-20°C
10TTR	16A	205m	140m	123m
	20A		186m	165m
	30A		195m	195m
15TTR	16A	145m	93m	82m
	20A	162m	125m	111m
	30A		160m	160m
20TTR	16A	116m	75m	62m
	20A	140m	93m	85m
	30A		140m	115m
25TTR	16A	88m	60m	50m
	20A	117m	75m	70m
	30A	126m	117m	105m
33TTR	16A	70m	50m	45m
	20A	90m	65m	58m
	30A	108m	95m	85m
	40A		105m	105m

### Product Ordering Information

Power output + TTR-Voltage-(Overjacket)

Example 33W/m@10°C with tinned copper braiding and fluoropolymer jacket (230V):

**33 TTR-2-BOT**

Example 15W/m@10°C with only insulation (120V) :

**15 TTR-1**

B: tinned copper braid

BO: Braid and thermoplastic overjacket

BOT: Braid and fluoropolymer overjacket

