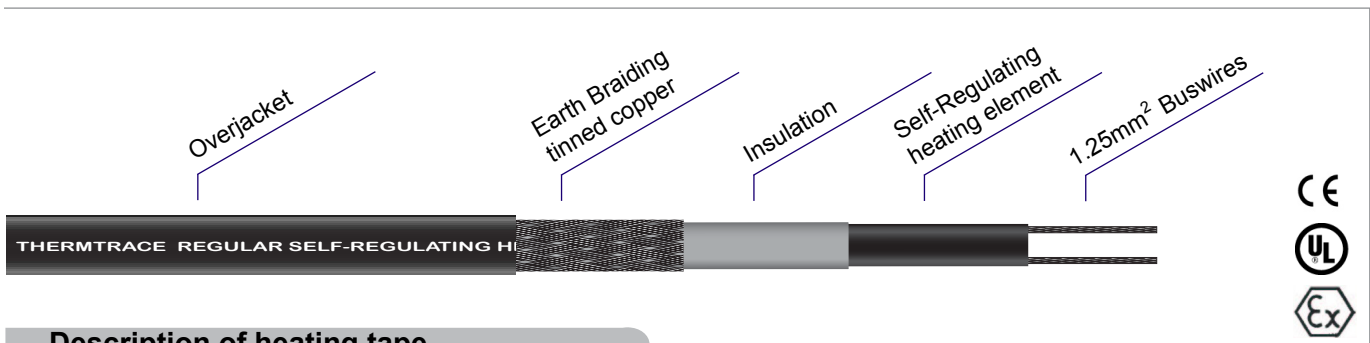


# ThermTrace<sup>®</sup> Regular (TTR) Self-Regulating parallel heating tape

up to 85°C



## Description of heating tape

- Self-regulating
- 4 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 10,15,25 W/m	T5

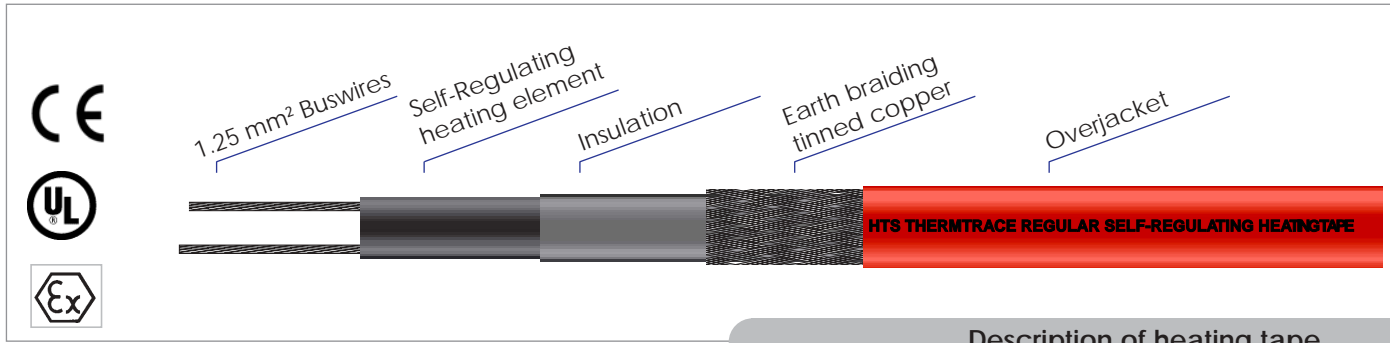
Name	Power Output on Insulated Metal Pipes at 10°C (W/m)	Maximum Permissible Temperatures powered (°C)    unpowered (°C)		Earth Braid Description	Nominal Dimensions (mm)	Nominal Weight kg/100m
10TTR-2-BO	10	65	85	tinned copper	11.5 x 5.5	12
10TTR-2-BOT	10	65	85	tinned copper	11.5 x 5.5	12
15TTR-2-BO	15	65	85	tinned copper	11.5 x 5.5	12
15TTR-2-BOT	15	65	85	tinned copper	11.5 x 5.5	12
25TTR-2-BO	25	65	85	tinned copper	11.5 x 5.5	12
25TTR-2-BOT	25	65	85	tinned copper	11.5 x 5.5	12
33TTR-2-BO	33	65	85	tinned copper	11.5 x 5.5	12
33TTR-2-BOT	33	65	85	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

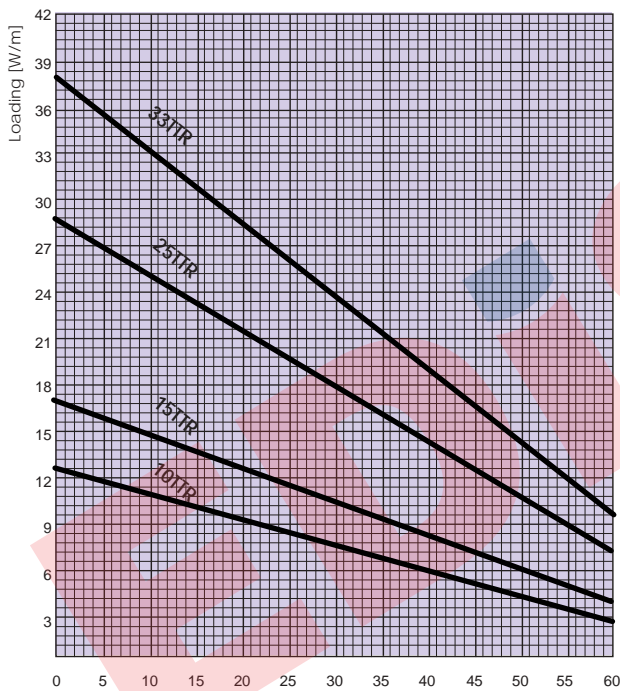


Description of heating tape

## TTR exposure up to 85°C

	Start-up temp.	230V			120V		
		16A	20A	30A	16A	20A	30A
10 TTR	+10	205			95		
	-15	140	186	195	69	90	95
	-25	123	165	195	60	81	95
15 TTR	+10	145	162		67	80	
	-15	93	125	160	45	61	80
	-25	82	111	160	40	54	80
25 TTR	+10	88	117	126	43	58	63
	-15	60	75	117	27	33	51
	-25	50	70	105	27	33	51
33 TTR	+10	70	90	108	33	45	54
	-15	50	65	95	25	33	53
	-25	45	58	85	22	30	43

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 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

