

ThermTrace Lite (TTLe) Self-Regulating parallel heating tape

up to 85°C

Overjacket
Earth braiding
tinned copper
Insulation
Self-Regulating
heating element
1.00 mm² Buswires

THERMTRACE LITE SELF-REGULATING H



Description of heating tape

- Self-regulating
- 5 power output ranges
- Cut to length

Applications:

ThermTrace Lite is a construction / light 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 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, so 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:

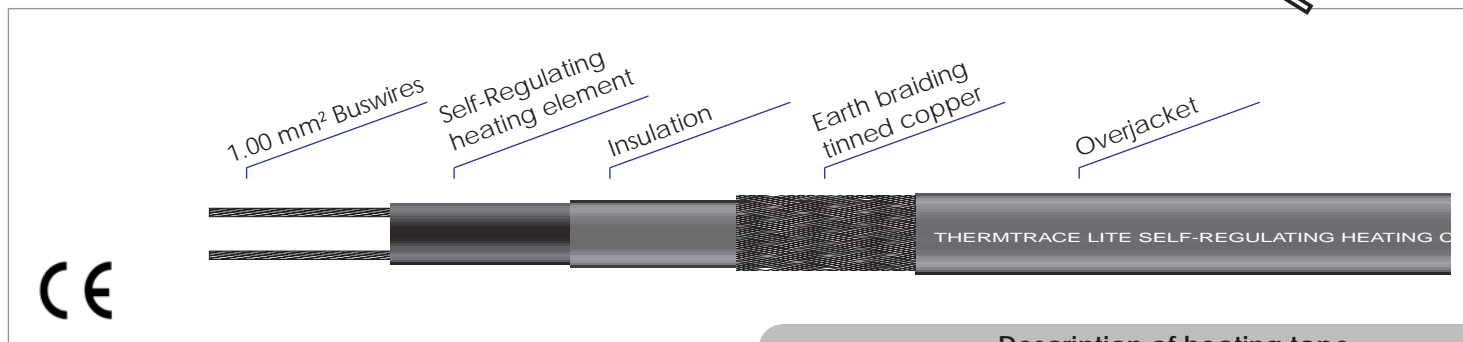
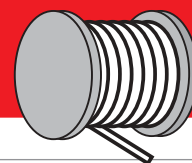
Maximum exposure temperature (unpowered)	85°C
Maximum operating temperature (powered)	65°C
Nominal voltage	230V (120V available to order, excluding 40TTLe)
Minimum bending radius	TTLe-BO 25mm TTLe-BOT 25mm
Minimum installation temperature	-30°C
Maximum resistance of braid	18Ohms/km
Waterproof, bonded jacket	optional

Name	Power Output on Insulated Metal Pipes at 5°C (W/m)	Maximum Permissible Ambient Temperature energised (°C) de-energised (°C)		Earth Braid Description	Nominal Dimensions (mm)	Nominal Weight kg/100m
12TTLe-2-BO	12	65	85	tinned copper	10.5 x 6.0	10
12TTLe-2-BOT	12	65	85	tinned copper	10.5 x 6.0	10
17TTLe-2-BO	17	65	85	tinned copper	10.5 x 6.0	10
17TTLe-2-BOT	17	65	85	tinned copper	10.5 x 6.0	10
23TTLe-2-BO	23	65	85	tinned copper	10.5 x 6.0	10
23TTLe-2-BOT	23	65	85	tinned copper	10.5 x 6.0	10
28TTLe-2-BO	28	65	85	tinned copper	10.5 x 6.0	10
28TTLe-2-BOT	28	65	85	tinned copper	10.5 x 6.0	10
40TTLe-2-BO	40	65	85	tinned copper	15.3 x 5.8	13
40TTLe-2-BOT	40	65	85	tinned copper	15.3 x 5.8	13

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

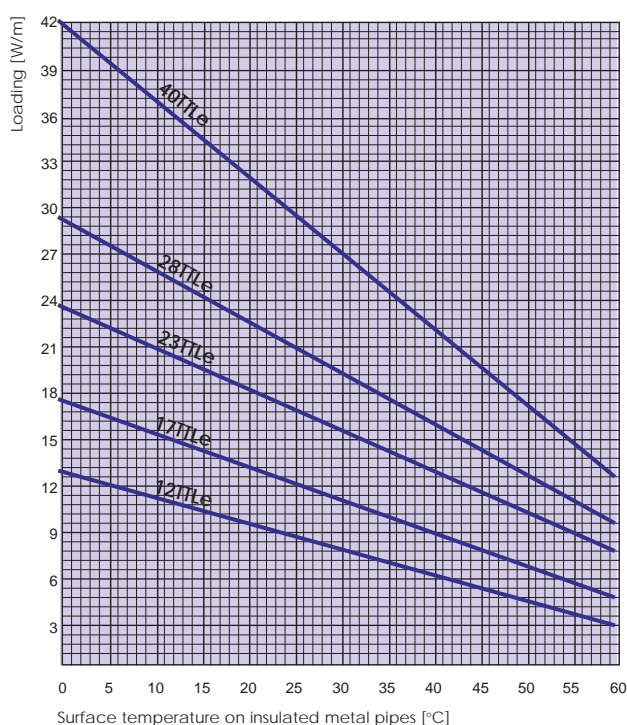
up to 85°C

ThermTrace Lite (TTLe) Self-Regulating parallel heating tape



Description of heating tape

Temperature/Loading diagram TTLe



TTLe exposure up to 85°C

Catalogue Reference	Circuit Breaker	Start up Temperature			
		+10°C	0°C	-15°C	-25°C
12TTLe	10A	118m	109m	90m	79m
	16A	154m	154m	139m	128m
17TTLe	10A	104m	95m	78m	70m
	16A	139m	139m	122m	113m
23TTLe	10A	79m	73m	62m	57m
	16A	116m	113m	97m	89m
28TTLe	10A	60m	51m	45m	42m
	16A	100m	86m	72m	65m
40TTLe	10A	-	-	-	-
	16A	70m	62m	51m	46m

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

Approval Details



*Please note that the 40 TTLe has no SEMCO approval

Product Ordering Information

Power output + TTLe-Voltage-(Overjacket)

Example 23W/m@5°C with tinned copper braiding and thermoplastic jacket (230V):

23 TTLe-2-BO

Example 23W/m@5°C with only insulation (120V):

12 TTLe-1

BO: tinned copper braiding and thermoplastic overjacket
BOT: tinned copper braid and fluoropolymer overjacket