

Electrical heating cable for frost protection or temperature maintenance.

FREEZSTOP LITE Self-Regulating Heating Cable

- Automatically adjusts heat output in response to increasing or decreasing pipe temperature.
- Can be cut-to-length with no wastage.
- Will not overheat or burnout, even when overlapped.
- Full range of controls and accessories.
- Approved for use in non-hazardous, hazardous and corrosive environments.
- Available up to 277 VAC.

DESCRIPTION

FREEZSTOP LITE is a light industrial/commercial grade self-regulating heating cable that can be used for freeze protection or temperature maintenance of pipework and vessels in the construction and refrigeration industries.

It can be cut-to-length at site and exact piping lengths can be matched without any complicated design considerations.

FREEZSTOP LITE is approved for use in non-hazardous, hazardous and corrosive environments to world wide standards.

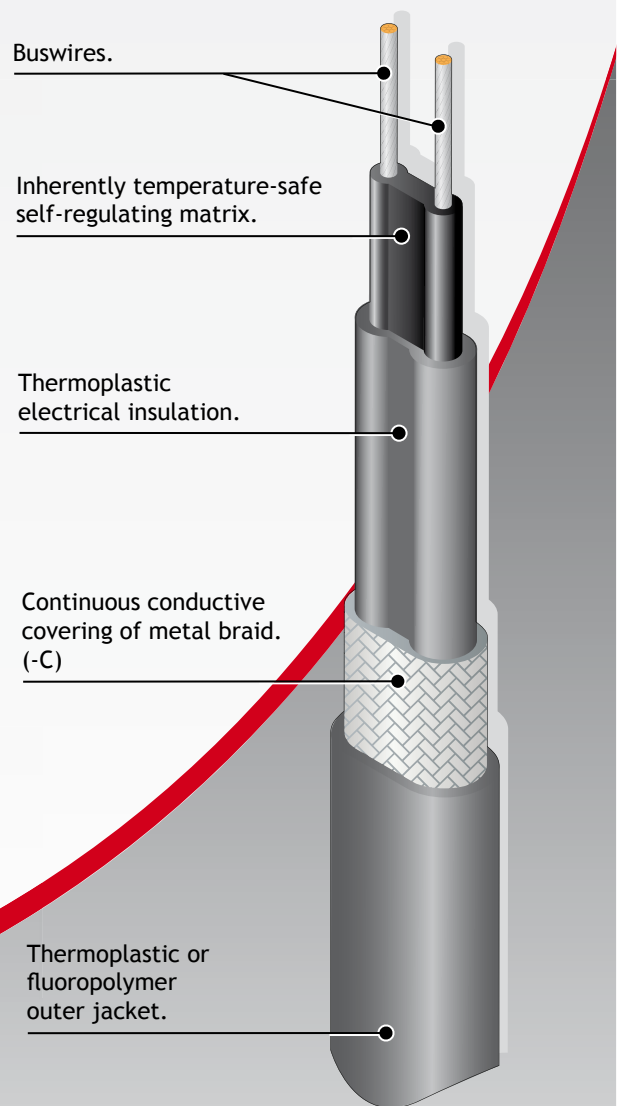
Its self-regulating characteristics improve safety and reliability. **FREEZSTOP LITE** will not overheat or burnout, even when overlapped upon itself. Its power output is self-regulated in response to the pipe temperature.

The installation of **FREEZSTOP LITE** is quick and simple and requires no special skills or tools. Termination, splicing and power connection components are all provided in convenient kits.

INHERENTLY TEMPERATURE-SAFE

“The inherent ability to self-regulate at a temperature level below the maximum product rating and withstand temperature of the insulating materials, without the need for temperature control.”

Similar competitor self-regulating products are typically limited to a maximum energised temperature, typically 65°C at which point, their retained power output prevent the cable from self-regulating at its own limiting temperatures. All such products require temperature control to ensure their own temperature safety.



SPECIFICATION

MAXIMUM CONTINUOUS EXPOSURE TEMPERATURE (Power ON): 85°C (185°F)

MAXIMUM PERMISSIBLE EXPOSURE TEMPERATURE (Power OFF): 85°C (185°F)

MINIMUM OPERATING TEMPERATURE: -65°C* (-85°F)

MINIMUM INSTALLATION TEMPERATURE: -40°C (-40°F)

POWER SUPPLY: 1 - 277V AC

TEMPERATURE CLASSIFICATION:
 up to 31W/m @ nom voltage - T6 (85°C)
 up to 25W/m @ nom 230V powered to 277V - T6 (85°C)
 >31W/m @ nom voltage - T4 (135°C)
 >25W/m @ nom 230V powered up to 277V - T4 (135°C)

MAXIMUM RESISTANCE OF PROTECTIVE BRAIDING: 18.2 Ohm/km

WEIGHTS & DIMENSIONS:

Type Ref	Dimensions (mm) +/-0.5	Weight kg/100m	Min Bend radius	Gland Size
FSLe	8.3 x 3.7	4.8	25mm	M20
FSLe..C	9.3 x 4.7	8.3	30mm	M20
FSLe..CT	10.5 x 5.9	10.2	35mm	M20
FSLe..CF	10.5 x 5.9	10.9	35mm	M20

APPROVAL DETAILS:

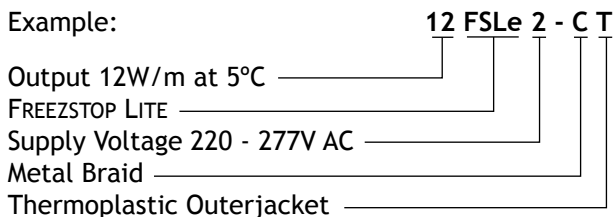
ATEX	- Sira 02ATEX3074
IECEX	- SIR 11.0129
FM	- 3009080
VDE	- 114665
CSA	- 1295278, 1547590
DNV-GL	- E12832
EAC*	- TC RU C-GB.ГБ05.B.00186

ORDERING INFORMATION:

Options

FSLe-C	Continuous conductive covering of metal braid. Mechanical protection/earth path.
FSLe-CT	Thermoplastic outer jacket over a metal braid provides additional protection.
FSLe-CF	Fluoropolymer outer jacket over a metal braid provides protection where corrosive chemical solutions or vapours may be present.

Example:



MAXIMUM LENGTH (m) vs. CIRCUIT BREAKER SIZE:

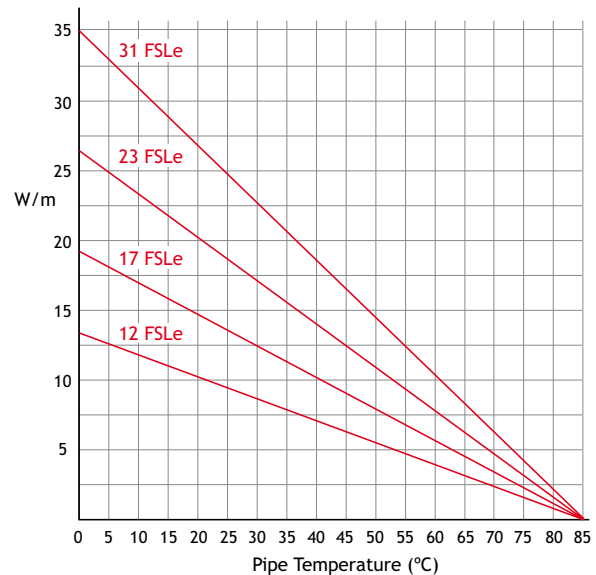
The following circuit details relate specifically to the trace heating of pipework and equipment. For any other application consult Heat Trace.

Cat Reference	Start-up Temperature	230V			
		6A	10A	16A	20A
12FSLe	5°C	78	132	180	-
	0°C	74	124	180	-
	-20°C	56	94	150	180
	-40°C	46	76	124	154
17FSLe	5°C	62	104	146	-
	0°C	60	100	146	-
	-20°C	48	82	130	146
	-40°C	42	70	112	138
23FSLe	5°C	46	76	124	-
	0°C	42	70	114	124
	-20°C	34	56	88	110
	-40°C	28	46	72	90
31FSLe	5°C	34	58	92	102
	0°C	32	52	84	102
	-20°C	24	40	56	66
	-40°C	20	34	54	66

For use with Type C circuit breakers to IEC 60898

THERMAL RATINGS:

Nominal output at 115V or 230V when FSLe is installed on insulated metallic pipes and as outlined in the procedures within IEC 62395 and IEC 60079-30.



FURTHER INFORMATION:

Please consult the appropriate termination instructions and the Heat Trace Installation, Maintenance and Testing Manual (HTDIMM 010) for further details.