FSLe 85°C

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

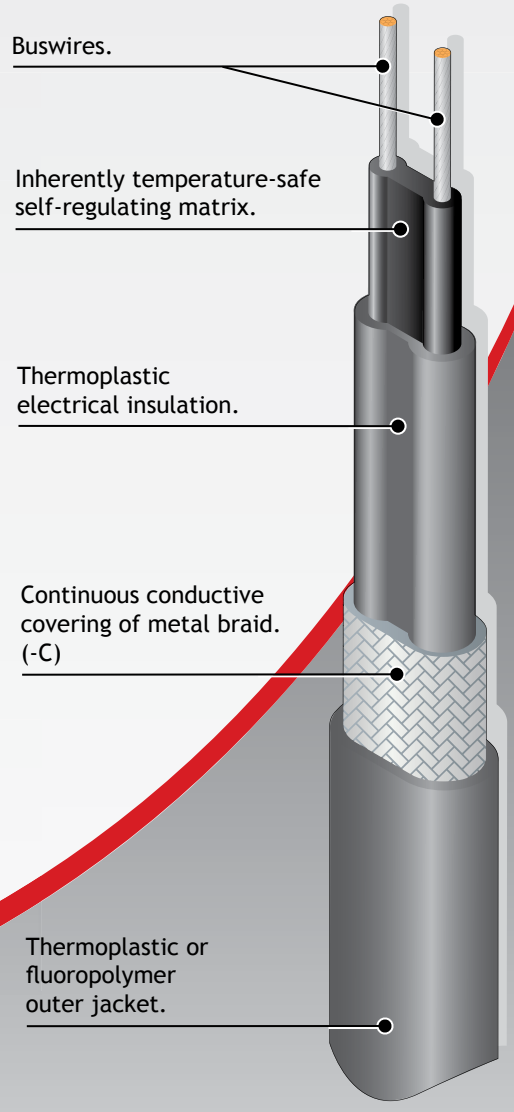
FREEZSTOP LITE is a light industrial/commercial grade self-regulating heating cable that can be used for freeze protection or temperature maintenance of pipework and vessels in the construction and refrigeration industries.

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.

HEAT TRACE™ SETTING THE STANDARDS LEADING THE WAY

40 Years 1974 - 2014

The Heat Tracing Authority™

SPECIFICATION

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

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

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

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

POWER SUPPLY: 12 - 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

INGRESS PROTECTION: IP67

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.AA87.B.00519

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: **12 FSLe 2 - C T**

- 12 — Output 12W/m at 5°C
- FSLe — FREEZSTOP LITE
- 2 — Supply Voltage 220 - 277V AC
- C — Metal Braid
- T — Thermoplastic Outerjacket

MAXIMUM LENGTH (m) vs. CIRCUIT BREAKER SIZE:

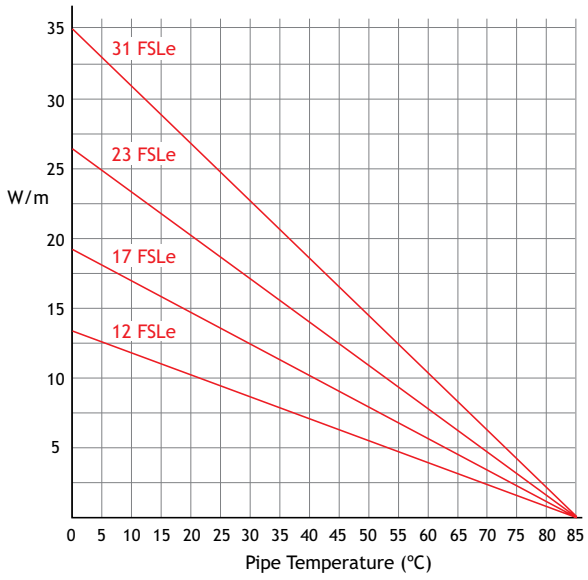
The following circuit details relate specifically to the trace heating of pipework and equipment. For any other application consult Heat Trace.

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 Design, Installation & Maintenance Manual (HTDIMM 010) for further details.

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