

At a Glance

Applications



Freeze prevention



Temperature maintenance



Pipelines



Silos, vessels, tanks

- › Frost protection
- › Temperature maintenance
- › Food Processing Industry
- › Filter heating systems

Benefits

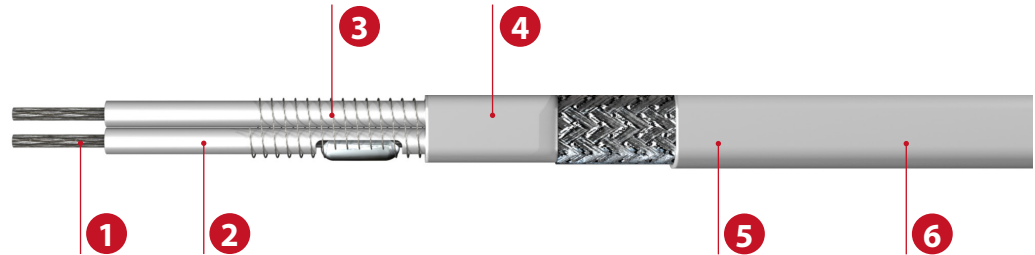
- › Single end power input
- › Can be cut to length
- › Constant power output per meter
- › Highly flexible



Approvals

CSTB
by technical assessment

ELP-Si-F up to 200 °C



1	Bus wire	Copper
2	1 st insulation	Silicone
3	Heating conductor	Heating conductor alloy
4	2 nd insulation	Silicone
5	Protective braid	Copper, nickel-plated
6	Outer jacket	Silicone (ELP/Si F xx B), Fluoropolymer (BOT)

Constant Wattage Heating Cable with Resistance Wire

These heating cables are particularly suitable for maintaining temperatures of up to +150 °C. Its great flexibility down to - 70°C means that this version is ideal for heat tracing in industrial refrigeration or in countries with very harsh climates.

The heating cable consists of a succession of heating zones (length = contact spacing) and can be cut to length in sections of the contact distance to the required length. When cutting into lengths, the heating circuit is interrupted up to the next contact point and this non-active part can be used as a cold lead. During the design phase, one contact spacing length per planned heating circuit must be calculated additionally.

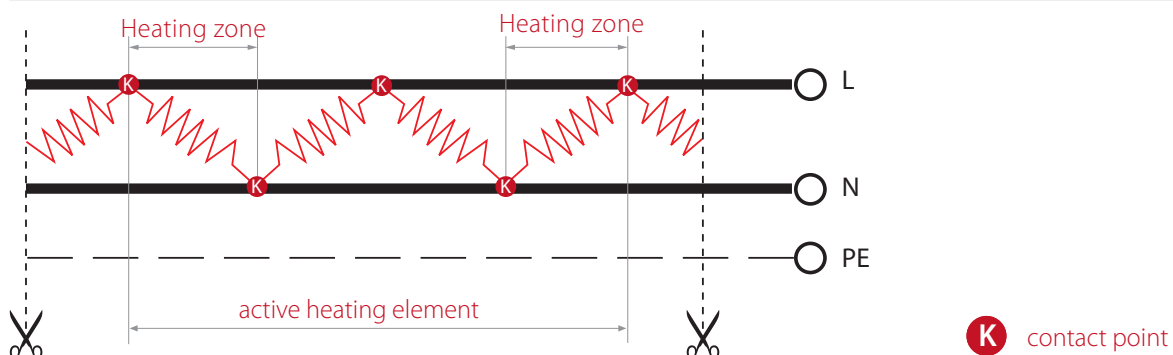
Checklist

Connection & end termination set

ELVB-ELPA2-25	ELVB-ELPA2-25 connection-set for ELP/Si, M25	091A052
EL-ECP2	Silicone-end cap transparent for ELP/Si up to 200°C	09112P3

Technical Information

Maximum withstand temperature	200 °C
Nominal voltage	230 VAC or 400 VAC
Min. Bending radius	25 mm
Min. installation temperature	– 70 °C
Min. start up temperature	– 70 °C
Cross section bus wire	2 x 2,0 mm ²
Moisture proof	Yes



Heating circuit length

Type	Length @ +10°C [m]	Length @ +100°C [m]
ELP/Si F 20 B	147.0	141.0
ELP/Si F 30 B	98.0	98.0
ELP/Si F 40 B	73.0	73.0
ELP/Si F 40 B	128.0	128.0
ELP/Si F 20 BOT	147.0	141.0
ELP/Si F 30 BOT	98.0	98.0
ELP/Si F 40 BOT	73.0	73.0
ELP/Si F 40 BOT	128.0	128.0

Note

- ▶ Heating circuit lengths ELP/Si F on the following conditions:
 - ▶ 16 A circuit breaker, 80 % utilisation, start up temp. +10°C
 - ▶ Max. 10% voltage drop
 - ▶ Power connection to one (1) heater end
- ▶ Cables shall neither intersect nor contact.
- ▶ Provide protection by means of circuit breaker RCD 30 mA.
- ▶ Please observe the standards:
 - ▶ IEC 62395-2, EN 60519-10, EN 62395-2.

Order Information

Type	Nominal Power	Nominal Voltage [VAC]	Maintain temperature max.	Dimmension [mm]	Contact spacing [m]	Weight ca. [g/m]	Article - No.
ELP/Si F 20 B	20 W/m	230	150 °C	6.5 x 10.5	0.7	123	0320210
ELP/Si F 30 B	30 W/m	230	140 °C	6.5 x 10.5	0.7	123	0320211
ELP/Si F 40 B	40 W/m	230	120 °C	6.5 x 10.5	0.6	123	0320212
ELP/Si F 40 B	40 W/m	400	120 °C	6.5 x 10.5	1.0	123	0320312
ELP/Si F 20 BOT	20 W/m	230	150 °C	7.0 x 10.5	0.7	123	0320220
ELP/Si F 30 BOT	30 W/m	230	140 °C	7.0 x 10.5	0.7	123	0320221
ELP/Si F 40 BOT	40 W/m	230	120 °C	7.0 x 10.5	0.6	123	0320222
ELP/Si F 40 BOT	40 W/m	400	120 °C	7.0 x 10.5	1.0	123	0320322