

**VARMEKABLER**

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**KONSTANT WATT  
VARMEKABEL**

# CONSTANT WATTAGE HEATING CABLE WITH RESISTANCE WIRE

The installation of this heating cable is highly cost-efficient with any kind of heat tracing application thanks to the single end power input. 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.

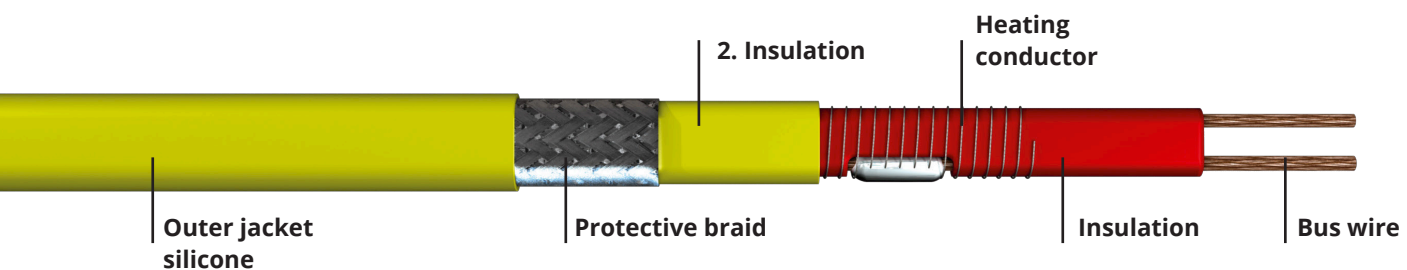
## ADVANTAGES:

- Single end connection
- Can be cut off the roll
- Constant power output per meter
- Highly flexible

## APPLICATIONS:

- Vessels, piping, valves
- Food processing industry
- Frost protection and temperature maintenance on pumps, etc.

## TYPE ELP/SI UP TO 200 °C

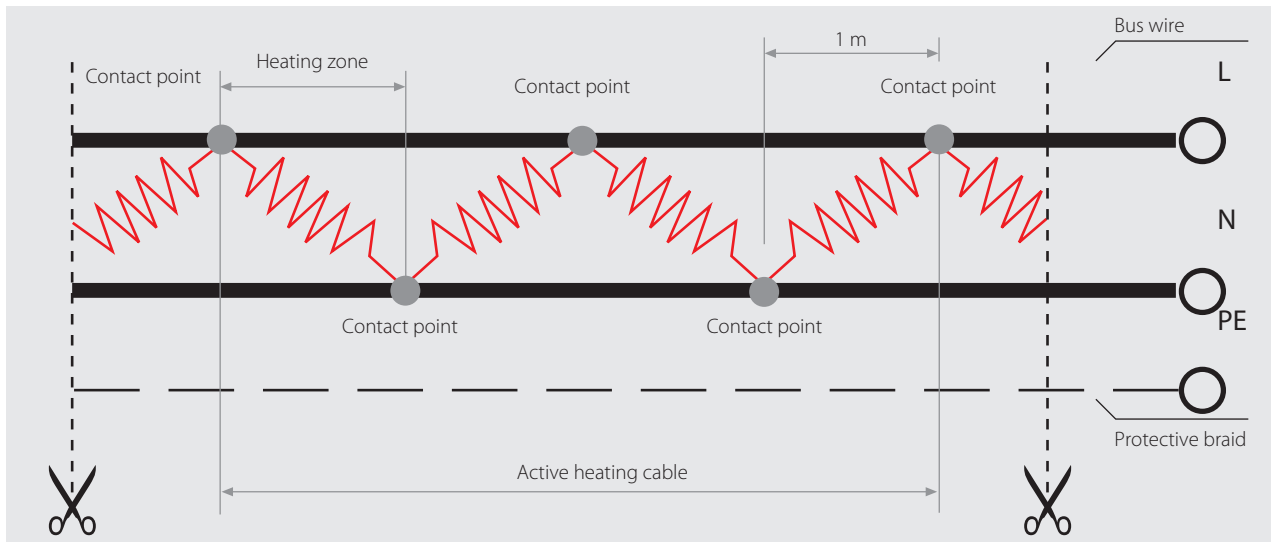


# TECHNICAL INFORMATION

## DATA

■ Insulation	Silicone
■ Protective braid	Copper
■ Outer jacket	Silicone
■ Nominal temperature	200 °C
■ Moisture proof	Yes
■ Bending radius, min.	30 mm
■ Bus wire cross section	2 x 1.5 mm <sup>2</sup>
■ Nominal voltage	230 V AC/DC
■ Installation temp., min.	-60 °C
■ Start-up temp., min	-60 °C

Cables shall neither intersect nor contact.  
Provide protection by means of circuit breaker FI 30.  
Please observe the standards IEC 62395-2, EN 60519-10.



Type	Nominal output	Dimensions approx. (mm)	Contact spacing (m)	Art. No.
ELP/Si 10 BO 230	10 W/m	5.25 x 9.75	1.0	0320102
ELP/Si 20 BO 230	20 W/m	5.25 x 9.75	1.0	0320108
ELP/Si 30 BO 230	30 W/m	5.25 x 9.75	1.0	0320114
ELP/Si 40 BO 230	40 W/m	5.25 x 9.75	1.0	0320120

Constant wattage heating cables up to nominal voltages of 120 V or 400 V are available upon request. Bus wire cross section 2 x 2 mm<sup>2</sup> upon request.

Maximum heating circuit length			
Type	W/m	Length (m) at 50 °C	Length (m) at 150 °C
ELP/Si 10 BO 230	10	198	147
ELP/Si 20 BO 230	20	139	102.5
ELP/Si 30 BO 230	30	98	82.5
ELP/Si 40 BO 230	40	73.5	70.5

### Heating circuit lengths ELP/Si on the following conditions

- 16 A circuit breaker, 80 % utilisation
- Max. 10 % voltage drop
- Power connection to one (1) heater end

# 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.

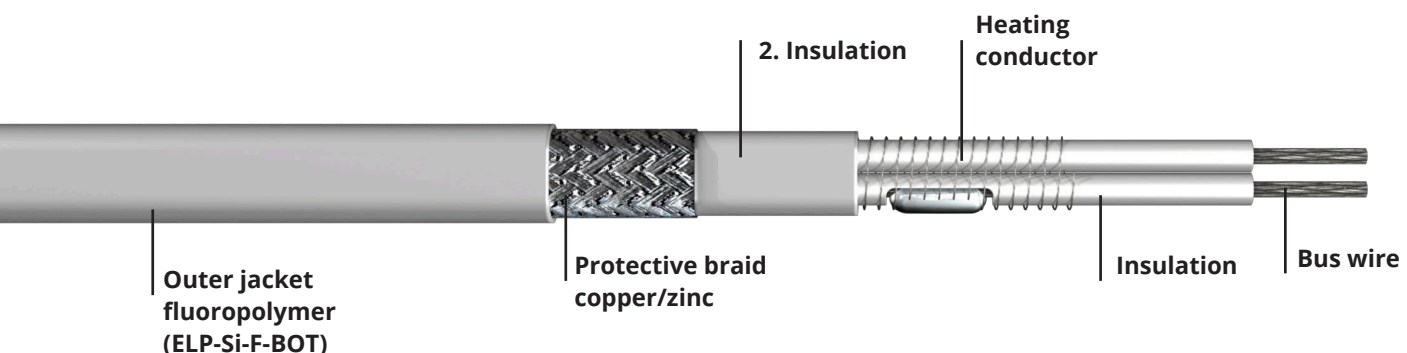
## ADVANTAGES:

- Single end connection
- Can be cut off the roll
- Constant power output per meter
- Highly flexible

## APPLICATIONS:

- Vessels, piping, valves
- Food processing industry
- Frost protection and temperature maintenance on pumps, etc.
- Filter heating systems

## TYPE ELP/SI-F UP TO 200 °C



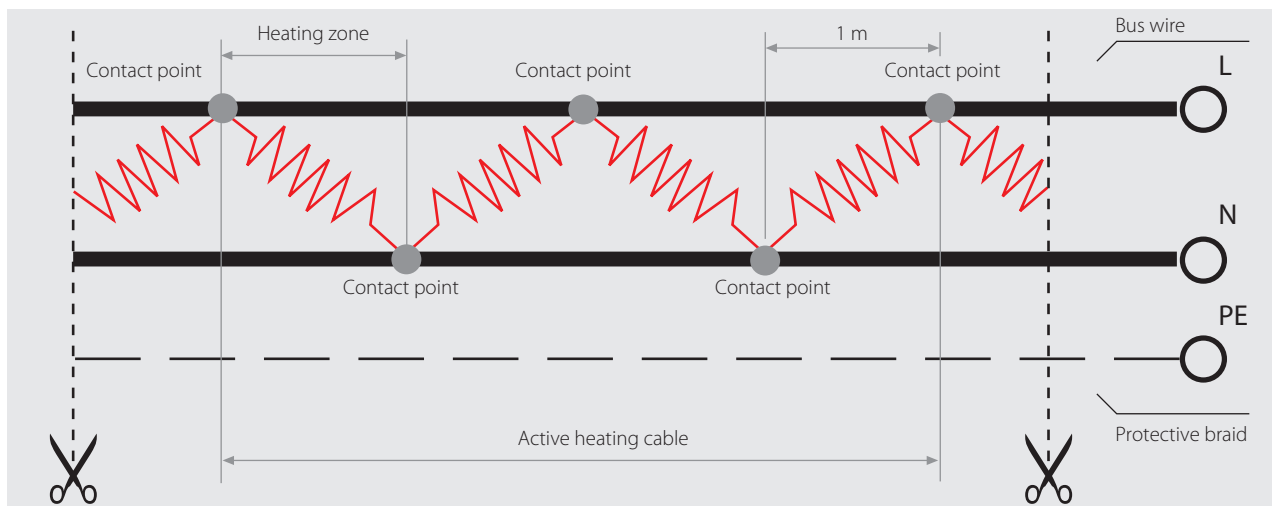
## TECHNICAL INFORMATION

### DATA ELP/SI-F-B

■ Insulations	Silicone
■ Protective braid	Copper/zinc
■ Nominal voltage	230 V AC/DC or 400V AC/DC
■ Dimensions	6.5 x 10.5 mm
■ Permissible ambient temperature	-70...+200 °C
■ Bending radius, min.	30 mm
■ Bus wire cross section	2 mm <sup>2</sup>
■ Installation temp., min.	-70 °C
■ Start-up temp., min	-70 °C

### DATA ELP/SI-F-BOT

■ Insulations	Silicone
■ Protective braid	Copper/zinc
■ Outer jacket	Fluoropolymer
■ Nominal voltage	230 V AC/DC or 400V AC/DC
■ Dimensions	7 x 10.5 mm
■ Permissible ambient temperature	-70...+200 °C
■ Bending radius, min.	30 mm
■ Bus wire cross section	2 mm <sup>2</sup>
■ Installation temp., min.	-70 °C
■ Start-up temp., min	-70 °C



### Maximum heating circuit length

Type	Nominal output (W/m)	Contact spacing (m)	Length (m) at 10 °C	Length (m) at 100 °C	Maximum maintenance temperature °C	Nominal voltage (V)	Art. No.
ELP/Si F 20 B	20	0.7	147	141	150	230	0320210
ELP/Si F 30 B	30	0.7	98	98	140	230	0320211
ELP/Si F 40 B	40	0.6	73.5	73.5	120	230	0320212
ELP/Si F 40 B	40	1.0	128	128	120	400	0320312
ELP/Si F 20 BOT	20	0.7	147	141	150	230	0320220
ELP/Si F 30 BOT	30	0.7	98	98	140	230	0320221
ELP/Si F 40 BOT	40	0.6	73.5	73.5	120	230	0320222
ELP/Si F 40 BOT	40	1.0	128	128	120	400	0320322

### Heating circuit lengths ELP/Si-F on the following conditions

- 16 A circuit breaker, 80 % utilisation
- Max. 10 % voltage drop
- Power connection to one (1) heater end

Cables shall neither intersect nor contact. Provide protection by means of circuit breaker FI 30. Please observe the standards IEC 62395-2, EN 60519-10.

Constant wattage heating cables up to nominal voltages of 120 V are available upon request.

# CONSTANT WATTAGE HEATING CABLE WITH RESISTANCE WIRE

These parallel heating cables offer tremendous flexibility in use, as they can easily be cut to the required length off the roll, with the assurance of constant power output. There is no need for a connecting cable and input can be unilateral. It is quick and easy to assemble; this saves a lot of time, and reduces costs considerably as a result. Since output of up to 60 W/m is possible for lengths laid to piping, ELP parallel heating cables are particularly suitable for piping with high output requirements such as in industrial process technology. The particularly temperatureresistant outer shell in Fluoropolymer and the high level of chemical resistance of the Fluoropolymer ensure a long useful life.

## ADVANTAGES:

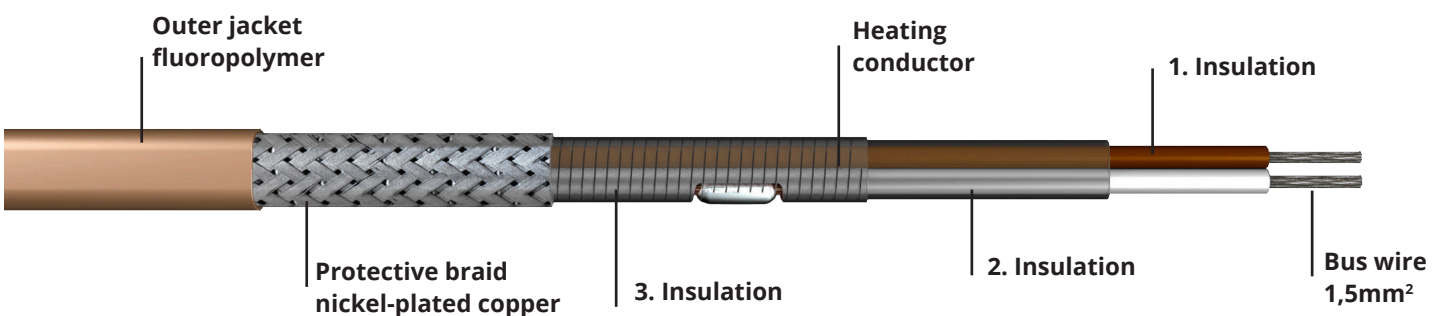
- Single end connection
- Can be cut off the roll
- Constant power output per meter
- Long life cycle
- Laying without exact measuring possible
- High chemical resistance
- UV resistance

## APPLICATIONS:

- Vessels, piping, valves
- Building construction
- Food processing industry
- Paper industry



## TYPE ELP/PFA UP TO 260 °C



# TECHNICAL INFORMATION

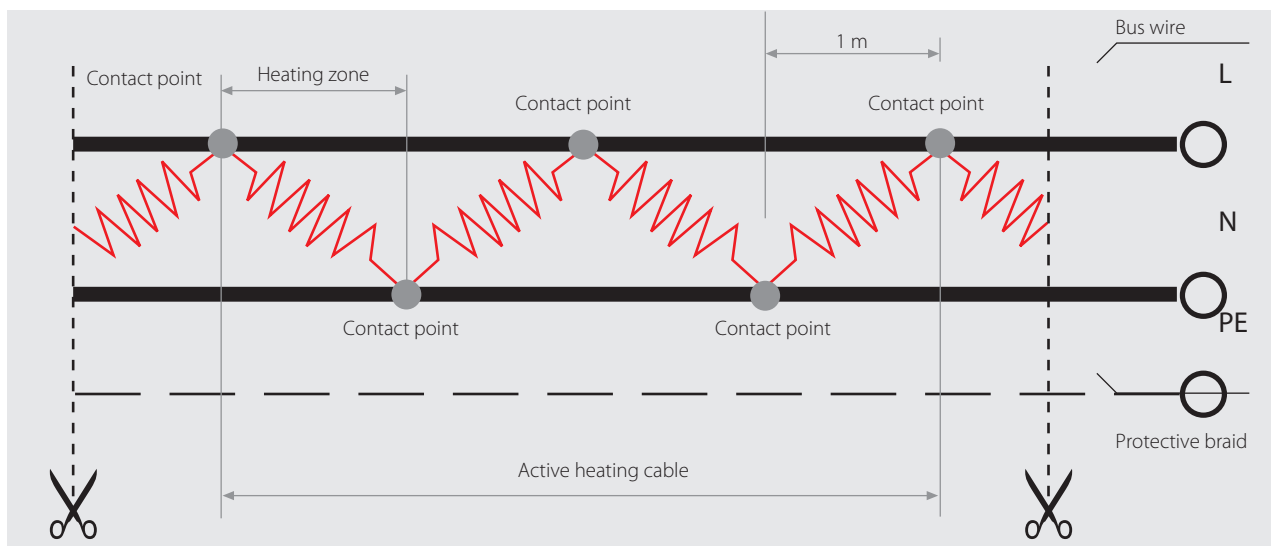
## DATA

■ Insulations	Fluoropolymer
■ Protective braid	Nickel-plated copper
■ Outer jacket	Fluoropolymer
■ Nominal temperature	260 °C
■ Moisture proof	Yes
■ Bending radius, min.	25 mm
■ Bus wire cross section	2 x 1.5 mm <sup>2</sup>
■ Nominal voltage	230 V AC/DC
■ Installation temp., min.	-45 °C
■ Start-up temp., min.	-45 °C

## STANDARDS

■ Manufactured according to	DIN VDE 0721-52 EN 62395-1; 2007-05
■ Certificates	12ATEX1438U IECEx EPS 12.0009U
■ Classification	II 2G Ex e IIC Gb II 2D Ex tb IIIC Db

Cables shall neither intersect nor contact.  
Provide protection by means of circuit breaker FI 30.  
Please observe the standards IEC 62395-2, EN 60519-10.



Type	Nominal output	Working temp. max	Dimensions approx. (mm)	Contact spacing (m)	Art. No.
ELP/PFA 15 BOT	15 W/m	205°C	8.0 x 5.5	1.0	B0332015
ELP/PFA 30 BOT	30 W/m	190°C	8.0 x 5.5	1.0	B0332030
ELP/PFA 45 BOT	45 W/m	175°C	8.0 x 5.5	1.0	B0332045
ELP/PFA 60 BOT	60 W/m	160°C	8.0 x 5.5	1.0	B0332060

Maximum heating circuit length			
Type	W/m	Length (m) at 50 °C	Length (m) at 150 °C
ELP/PFA 15 BOT	15	161	119
ELP/PFA 30 BOT	30	98	82.5
ELP/PFA 45 BOT	45	65.5	65.5
ELP/PFA 60 BOT	60	50	50

Bus wire cross section 2 x 2 mm<sup>2</sup> upon request.

## HEATING CIRCUIT LENGTHS ELP/SI-F ON THE FOLLOWING CONDITIONS

- 16 A circuit breaker, 80 % utilisation
- Max. 10 % voltage drop
- Power connection to one (1) heater end

# CONSTANT WATTAGE HEATING CABLE WITH RESISTANCE WIRE

These parallel heating cables offer tremendous flexibility in use, as they can easily be cut to the required length off the roll, with the assurance of constant power output. There is no need for a connecting cable and input can be unilateral. It is quick and easy to assemble; this saves a lot of time and as a result reduces cost considerably. Since output of up to 60 W/m is possible for lengths laid to piping, ELP parallel heating cables are particularly suitable for piping with high output requirements such as in industrial process technology. The particularly temperatureresistant outer shell and the high level of chemical resistance ensure a long useful life.

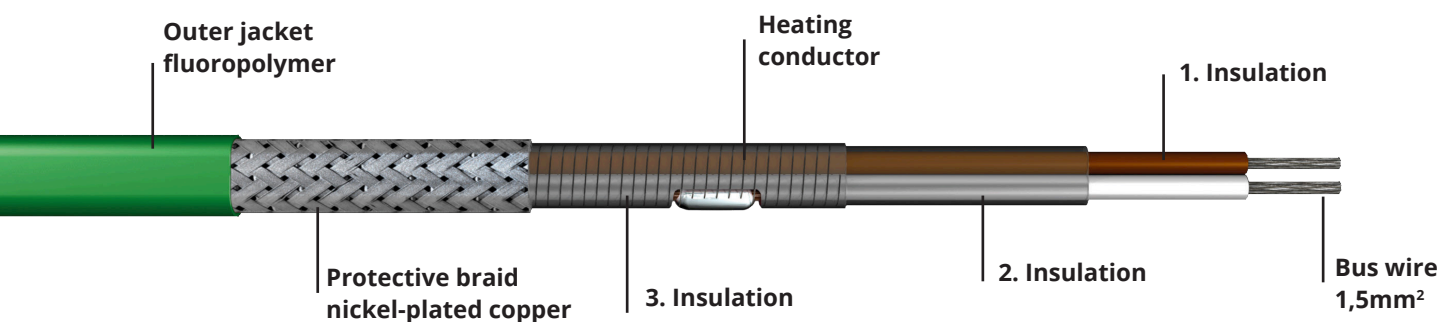
## ADVANTAGES:

- Single end power input
- Can be cut off the roll
- Constant power output per meter
- Long life cycle
- Laying without exact measuring possible
- High chemical resistance
- UV resistance

## APPLICATIONS:

- Vessels, piping, valves
- Building construction
- Food processing industry
- Paper industry

## TYPE ELP/FEP UP TO 200 °C





# TECHNICAL INFORMATION

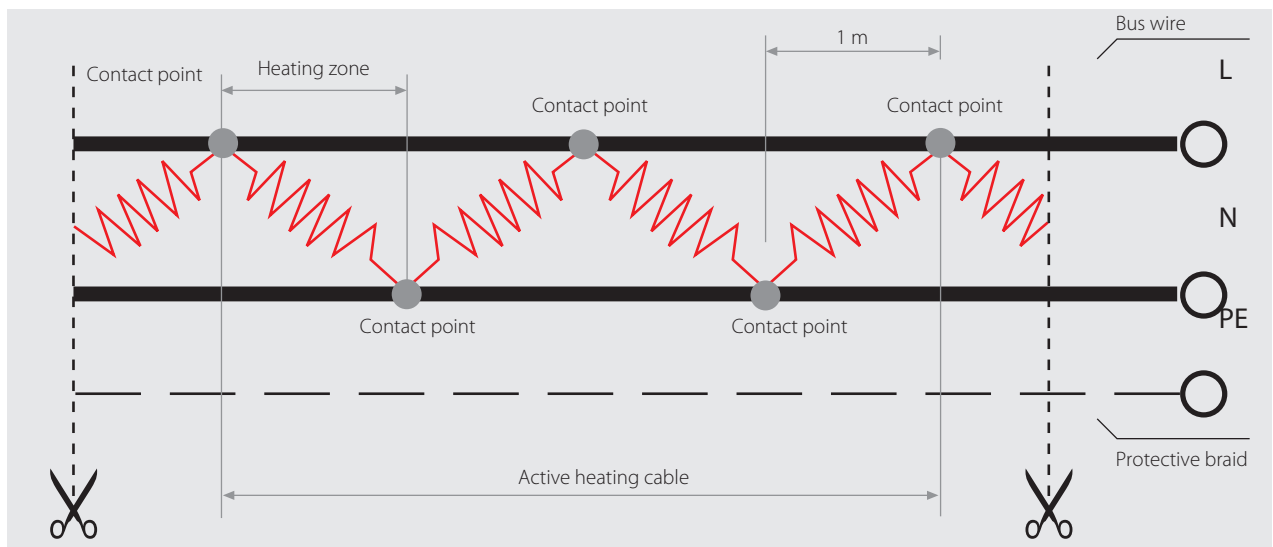
## DATA

■ Insulation	Fluoropolymer
■ Protective braid	Nickel-plated copper
■ Outer jacket	Fluoropolymer
■ Nominal temperature	200 °C
■ Moisture proof	Yes
■ Bending radius, min.	25 mm
■ Bus wire cross section	2 x 1.5 mm <sup>2</sup>
■ Nominal voltage	230 V AC/DC
■ Installation temp., min.	-45 °C
■ Start-up temp., min.	-45 °C

## STANDARDS

■ Manufactured according to	DIN VDE 0721-52 EN 62395-1; 2007-05
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Cables shall neither intersect nor contact.  
Provide protection by means of circuit breaker FI 30.  
Please observe the standards IEC 62395-2, EN 60519-10.



Type	Nominal output	Working temp. max	Dimensions approx. (mm)	Contact spacing (m)	Art. No.
ELP/FEP 15 BO	15 W/m	195°C	8.0 x 5.5	1.0	B033201501
ELP/FEP 30 BO	30 W/m	180°C	8.0 x 5.5	1.0	B033203001
ELP/FEP 45 BO	45 W/m	165°C	8.0 x 5.5	1.0	B033204501
ELP/FEP 60 BO	60 W/m	150°C	8.0 x 5.5	1.0	B033206001

Maximum heating circuit length			
Type	W/m	Length (m) at 50 °C	Length (m) at 150 °C
ELP/FEP 15 BO	15	161	119
ELP/FEP 30 BO	30	98	82.5
ELP/FEP 45 BO	45	65.5	65.5
ELP/FEP 60 BO	60	50	50

Bus wire cross section 2 x 2 mm<sup>2</sup> upon request.

## HEATING CIRCUIT LENGTHS ELP/SI-F ON THE FOLLOWING CONDITIONS

- 16 A circuit breaker, 80 % utilisation
- Max. 10 % voltage drop
- Power connection to one (1) heater end



**ELVARME**



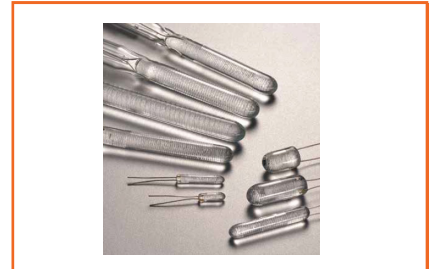
## VORES PRODUKTSORTIMENT INKLUDERER:



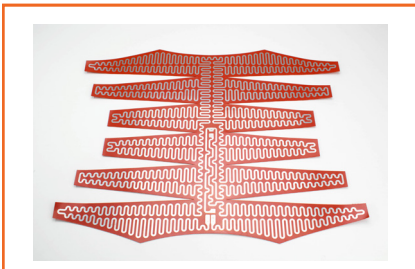
**SELVREGULERENDE VARMEKABLER**



**VARMEKABEL STYRING**



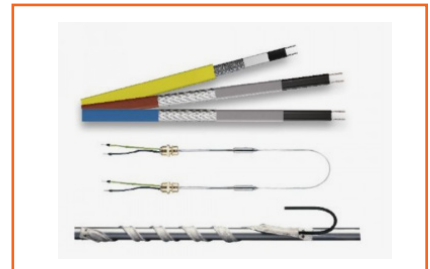
**TEMPERATUR SENSORS**



**ETCHED FOIL HEATERS**



**INDUSTRIELLE**



**VARMEKABLER**

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