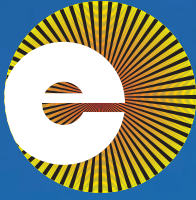


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innovations in heat tracing



# Resistance heating cable technology

Innovations in heat tracing

Innovations in heat tracing





## Table of contents

<b>Introduction</b> .....			1.02
<b>Type ELP/SI, -/FEP, -/PFA</b>	<i>Parallel heating cable</i>	<i>up to 260 °C</i> .....	1.03
<b>Type ELKM-A, -AS, -AE</b>	<i>Heating cable</i>	<i>up to 260 °C</i> .....	1.05
<b>Type ELKM-AG-L</b>	<i>Heating cable</i>	<i>up to 260 °C</i> .....	1.07
<b>Type ELKM-AG-N</b>	<i>Heating cable</i>	<i>up to 260 °C</i> .....	1.09
<b>Type ELK-A, -AS, -AE</b>	<i>Heating cable</i>	<i>up to 260 °C</i> .....	1.11
<b>Type ELK-AG</b>	<i>Heating cable</i>	<i>up to 260 °C</i> .....	1.13
<b>Type ELW-GN</b>	<i>Heating tape</i>	<i>up to 260 °C</i> .....	1.15
<b>Type ELW-VA</b>	<i>Heating tape</i>	<i>up to 260 °C</i> .....	1.17
<b>Type ELK-H</b>	<i>Heating cable</i>	<i>up to 450 °C</i> .....	1.19
<b>Type ELK-HS</b>	<i>Heating cable</i>	<i>up to 450 °C</i> .....	1.21
<b>Type ELW-H</b>	<i>Heating tape</i>	<i>up to 450 °C</i> .....	1.23
<b>Type ELW-HS</b>	<i>Heating tape</i>	<i>up to 450 °C</i> .....	1.25
<b>Type ELK-Q</b>	<i>Heating cable</i>	<i>up to 900 °C</i> .....	1.27
<b>Type ELW-Q</b>	<i>Heating tape</i>	<i>up to 900 °C</i> .....	1.29
<b>Type ELK-MI/F</b>	<i>Heating cable</i>	<i>up to 400 °C</i> .....	1.31
<b>Type ELK-MI/VA</b>	<i>Heating cable</i>	<i>up to 400 °C</i> .....	1.33
<b>Type ELW-3-FEP/PVC</b>	<i>Heating tape</i>	<i>up to 105 °C</i> .....	1.35
<b>Type EL-SINGLE/TWIN</b>	<i>Heating cable</i>	<i>up to 105 °C</i> .....	1.37
<b>Accessories</b> .....			1.39
<b>Measurement and control technique</b> .....			1.43



Coil ware



Gost: Approval for the  
Russian market



Factory terminated

A reliable and competent partner with several years' experience in the field of electrical heat tracing. You wish to transfer heat to the media or compensate heat loss – eltherm® provides the solution.

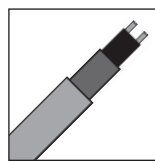
Our well-founded and expert knowledge, which is based on state-of-the-art technology, is always available to you. Quality is both produced and lived at eltherm®. Moreover, we have achieved DIN ISO 9001:2000 certification.

The latest IT, planning and testing systems ensure quality and timely manufacturing processes.

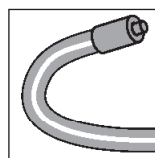
In close collaboration with the customers, eltherm® develops individually tailored solutions, supporting them when planning, proposing and assembling electrical heating systems. A perfected, high-quality product programme enables eltherm® to find the most reasonable economical solution for you.

Our results are convincing.

Further documents are available with information about our high-quality products:



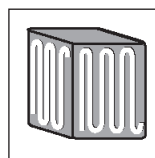
Self-regulating heating cables



Heated hoses



Heating mats Heating jackets




Special heating systems (for antennas, tank containers, receptacles ...)



Control units, automatic control units, monitoring units and regulator systems

## Important information

Products marked with the -symbol can be used in hazardous areas. The temperatures allocated to the products are the maximum permissible exposure temperatures. Our project engineers will gladly help you to design and dimension electrical heating systems. Moreover, we have prepared a questionnaire which helps to record operating data and enable correct dimensioning and allocation. We would be happy to send you the questionnaires for the respective product by fax, calculate the design data and submit you an offer. We have summarised the available accessories, fasteners and termination sets on pages 1.41 to 1.42 of the catalogue.

All products listed in the catalogue are available ex-works (subject to prior sale). All products offered in this catalogue can also be manufactured by eltherm® using different dimensions, outputs and voltages.

### Furthermore, we request you to observe the following:

- All products we supply which are listed in this catalogue may only be connected and commissioned by a qualified electrician.
- All locally applicable electrical and safety regulations must be observed during installation and operation.
- Normally, electrical heating systems require a temperature control unit as it is only possible to ensure that the exposure temperatures for the electrical heating and products to be heated are not exceeded if such a unit is used.
- Electrical heating which is not or cannot be monitored when in operation needs additional temperature safeguarding which switches them off lastingly in case of a failure.
- It is only possible to go without the automatic control and / or fuse protection for all other heating products if it is ensured that the nominal temperatures are not exceeded under unfavourable conditions and / or no injuries or damages to persons and material are incurred.
- In accordance with EN 62395-1, residual current devices (RCDs) should be used for disconnection from the mains in good time and to avoid consequential damages.
- Attention: heating cable and heating tape may neither intersect nor come into contact. Danger of burning through due to reciprocal heating up.
- Our general assembly and operating instructions for this product are valid for the use of the heating cables.

Specifications and advertising messages in this products and services catalogue, irrespective of their nature, in particular descriptions, illustrations, drawings, samples, information pertaining to quality, condition, composition performance, consumption and usability as well as dimensions and weights of the product range remain subject to change in as far as they are not expressly declared as binding. They do not denote any assurance or guarantee whatsoever. Slight deviations from the product specifications shall be deemed approved in as far as they are not deemed unreasonable for the buyer.

We explicitly reserve the right to amend errors and alter technical data.

**eltherm**<sup>®</sup>  
innovations in heat tracing



- Single end connection
- No cold lead required
- Can be cut to any length from the roll
- Constant power output per meter
- Highly flexible
- Suitable for the foodstuffs industry



## Type **ELP/Si, -/FEP, -/PFA**



### Application

Application on receptacles, pipes, valves, roofs, in roof gutters where there is a corrosive effect. Except for the end sleeve, the heating cable may be immersed in fluids. Single end power supply enables good value assembly for all heating systems. 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.



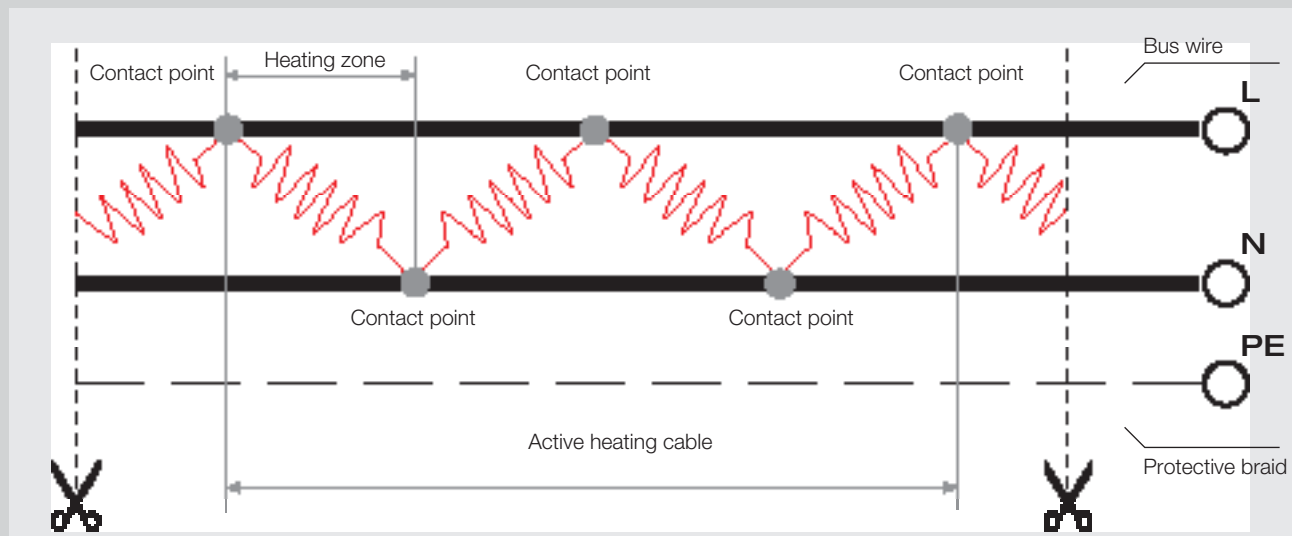
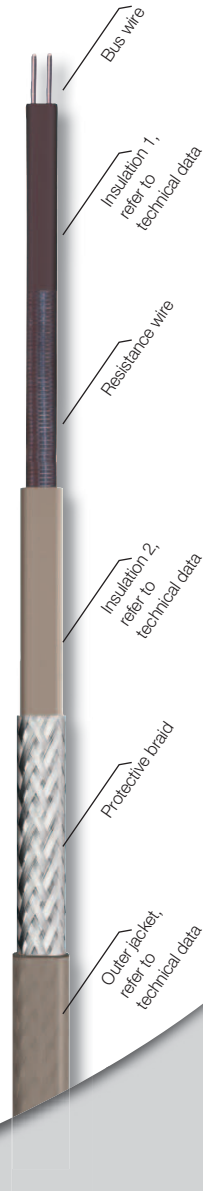
Type **ELP/Si** up to 180 °C  
 Type **ELP/FEP** up to 200 °C  
 Type **ELP/PFA** up to 260 °C

**Technical data:**

Type	ELP/Si	ELP/FEP	ELP/PFA
Outer jacket/Insulation	Silicone	FEP	PFA
Nominal temperature (°C)	180	200	260
Moisture resistant	yes	yes	yes
Minimum bending radius	20 mm	20 mm	25 mm
Bus wire cross-section	2 x 1.5 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>	2 x 1.5 mm <sup>2</sup>
Nominal voltage	220 – 240 V		

Type	Dimensions (mm)	Contact spacing (m)	Maximum heating circuit length (m)	Item number
ELP/Si 10 BO 230	6.8 x 10.3	1.2	135	0320102
ELP/Si 20 BO 230	6.8 x 10.3	1.0	95	0320108
ELP/Si 30 BO 230	6.8 x 10.3	1.0	80	0320114
ELP/Si 40 BO 230	6.8 x 10.3	1.0	65	0320120
ELP/Si 50 BO 230	6.8 x 10.3	1.0	60	0320123
ELP/Si 60 BO 230	6.8 x 10.3	1.0	55	0320126
ELP/FEP 10 BO 230	5.3 x 8.3	1.2	125	0320129
ELP/FEP 20 BO 230	5.3 x 8.3	1.0	90	0320132
ELP/FEP 30 BO 230	5.3 x 8.3	1.0	70	0320135
ELP/PFA 10 BO 230	6.1 x 9.8	1.2	130	0330102
ELP/PFA 20 BO 230	6.1 x 9.8	1.0	90	0330108
ELP/PFA 30 BO 230	6.1 x 9.8	1.0	75	0330114
ELP/PFA 40 BO 230	6.1 x 9.8	1.0	65	0330120
ELP/PFA 50 BO 230	6.1 x 9.8	1.0	60	0330123
ELP/PFA 60 BO 230	6.1 x 9.8	1.0	50	0330126

Parallel heating cables up to nominal voltages of 400 V available upon request.  
 Bus wire cross-section 2 x 2 mm<sup>2</sup> upon request.



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innovations in heat tracing



- Highly flexible
- Can be used in almost all industrial areas
- Short bending radius
- High working temperature
- Excellent chemical resistance
- Moisture resistant



## Type **ELKM-A, -AS, -AE**

### Application

Use on devices, receptacles, pipes, valves etc., in which low bending radii also allow compact tracing on small components across the entire surface. The heating cable is also available with corrosion-proof braiding consisting of SS AISI 304 which is named **ELKM-AE**.

This heating cable is also available without braiding under the name **ELKM-A** for use in devices and under metallic covers.



# Type ELKM-A, -AS, -AE up to 260 °C

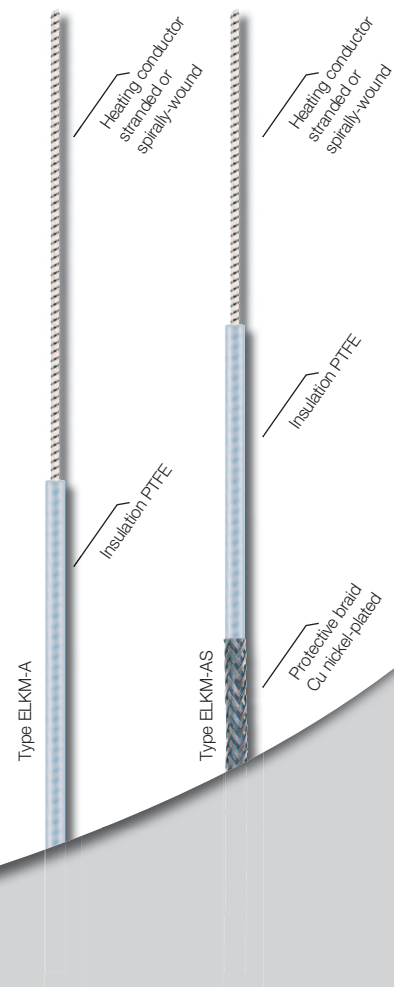
## Standards:

Manufactured according to . . . . . DIN VDE 0253  
 Short term . . . . . NH5Y11Q220  
 VDE reg. no. . . . . 7615 (ELKM-AS)

## Technical data:

Insulation . . . . . PTFE  
 Protective braid . . . . . Cu nickel-plated at ELKM-AS  
 SS AISI 304 at ELKM-AE  
 Nominal voltage max. . . . . 500 V  
 Output max. . . . . 30 W/m\*  
 Operating temperature max.. 260 °C when switched off  
 Minimum bending radius. . . 5 x External-Ø  
 Minimum installation temperature . . . . . – 50 °C  
 Moisture resistant . . . . . yes

\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.



Nominal resistance (Ω/km)	Outer diameter (mm)	Heating cable design	Temperature coefficient (1/K) α 105 °C	Item number
1.95	5.68	Stranded	0.00430	0137001
2.90	4.78	Stranded	0.00430	0137003
4.40	4.18	Stranded	0.00430	0137005
7.20	3.68	Stranded	0.00430	0137006
10.00	3.38	Stranded	0.00430	0137008
11.70	3.28	Stranded	0.00430	0137011
15.00	3.08	Stranded	0.00430	0137013
25.00	2.98	Stranded	0.00300	0137017
31.50	3.28	Stranded	0.00160	0137021
50.00	2.98	Stranded	0.00160	0137031
65.00	2.78	Stranded	0.00160	0137033
80.00	3.08	Stranded	0.00090	0137039
100.00	2.98	Stranded	0.00090	0137043
157.00	2.98	Stranded	0.00045	0137044
180.00	2.68	Stranded	0.00090	0137053
200.00	2.78	Stranded	0.00045	0137055
260.00	2.68	Stranded	0.00045	0137059

Nominal resistance (Ω/km)	Outer diameter (mm)	Heating cable design	Temperature coefficient (1/K) α 105 °C	Item number
280.00	2.58	Stranded	0.00038	0137230
328.00	2.88	Stranded	0.00018	0137231
360.00	2.48	Stranded	0.00045	0137084
430.00	2.68	Stranded	0.00018	0137067
480.00	2.68	Stranded	0.00018	0137068
600.00	2.58	Stranded	0.00018	0137232
800.00	2.48	Stranded	0.00018	0137081
1000.00	2.58	Stranded	0.00004	0137083
1470.00	2.38	Stranded	0.00004	0137233
1750.00	2.38	Stranded	0.00004	0137234
1900.00	2.68	Stranded	0.00040	0137235
2900.00	2.48	Stranded	0.00040	0137104
4000.00	2.38	Stranded	0.00040	0137115
4700.00	2.28	Stranded	0.00015	0137119
6000.00	2.18	Stranded	0.00020	0137236
7000.00	2.18	Stranded	0.00015	0137127
8000.00	2.18	Stranded	0.00015	0137121

Further resistances up to 1,500,000 Ω/Km upon request

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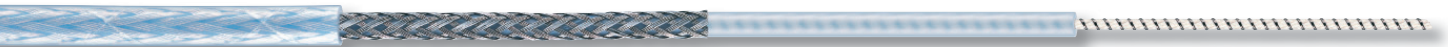
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innovations in heat tracing



- Excellent chemical resistance
- Can be used in all industrial areas
- Minimum impact resistance 4 Joules
- High working temperature
- Can be immersed in fluids



## Type **ELKM-AG-L**



### Application

The heating cable is suitable for highly corrosive environmental conditions for assembly on devices, receptacles, pipes, valves and similar. Except for the splices, it may be immersed in fluids. The robust PTFE outer jacket also

renders this heating cable resistant against aggressive chemicals.





# Type **ELKM-AG-L** up to 260 °C

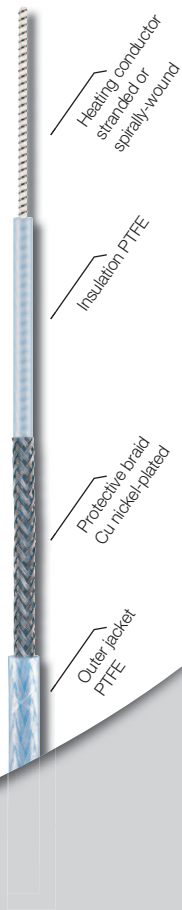
## Standards:

Manufactured according to . . . . . DIN VDE 0253, EN 62395-1  
 Short term . . . . . NH5Y1Q5Y 220  
 VDE marks approval . . . . . 40001594, 40024940

## Technical data:

Insulation . . . . . PTFE  
 Protective braid . . . . . Cu nickel-plated  
 Outer jacket . . . . . PTFE  
 Nominal voltage . . . . . 500 V  
 Output max . . . . . 30 W/m\*  
 Operating temperature max.: 260 °C when switched off  
 Minimum bending radius. . . . . 5 x External-Ø  
 Minimum installation temperature . . . . . – 50 °C  
 Moisture resistant . . . . . yes  
 Impact resistance . . . . . 4 Joule

\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.



Nominal resistance (Ω/km)	Outer diameter (mm)	Heating cable design	Temperature coefficient (1/K)	Item number
1.95	6.64	Stranded	0.00430	01TT002E
2.90	5.74	Stranded	0.00430	01TT003E
4.40	5.14	Stranded	0.00430	01TT004E
7.20	4.64	Stranded	0.00430	01TT007E
10.00	4.34	Stranded	0.00430	01TT010E
11.70	4.24	Stranded	0.00430	01TT011E
15.00	4.04	Stranded	0.00430	01TT015E
25.00	3.94	Stranded	0.00300	01TT025E
31.50	4.24	Stranded	0.00160	01TT031E
50.00	3.94	Stranded	0.00160	01TT050E
65.00	3.74	Stranded	0.00160	01TT065E
80.00	4.04	Stranded	0.00090	01TT080E
100.00	3.94	Stranded	0.00090	01TT110E
157.00	3.94	Stranded	0.00045	01TT115E
180.00	3.64	Stranded	0.00090	01TT118E
200.00	3.74	Stranded	0.00045	01TT120E
260.00	3.64	Stranded	0.00045	01TT126E

Nominal resistance (Ω/km)	Outer diameter (mm)	Heating cable design	Temperature coefficient (1/K)	Item number
280.00	3.54	Stranded	0.00038	01TT128E
328.00	3.84	Stranded	0.00018	01TT132E
360.00	3.44	Stranded	0.00045	01TT138E
430.00	3.64	Stranded	0.00018	01TT143E
480.00	3.64	Stranded	0.00018	01TT148E
600.00	3.54	Stranded	0.00018	01TT160E
800.00	3.44	Stranded	0.00018	01TT180E
1000.00	3.54	Stranded	0.00004	01TT210E
1470.00	3.34	Stranded	0.00004	01TT214E
1750.00	3.34	Stranded	0.00004	01TT217E
1900.00	3.64	Stranded	0.00040	01TT219E
2900.00	3.44	Stranded	0.00040	01TT229E
4000.00	3.34	Stranded	0.00040	01TT240E
4700.00	3.24	Stranded	0.00015	01TT247E
6000.00	3.14	Stranded	0.00020	01TT260E
7000.00	3.14	Stranded	0.00015	01TT270E
8000.00	3.14	Stranded	0.00015	01TT280E

Further resistances up to 1,500,000 Ω/Km upon request

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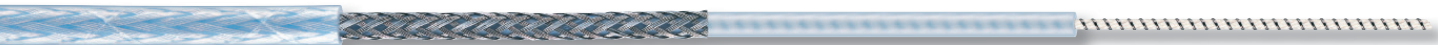
**eltherm**<sup>®</sup>  
innovations in heat tracing



- Excellent chemical resistance
- Can be used in all industrial areas
- Minimum impact resistance 4 Joules
- High working temperature
- Can be immersed in fluids



## Type **ELKM-AG-N**



### Application


The heating cable is suitable for highly corrosive environmental conditions for assembly on devices, receptacles, pipes, valves and similar. Except for the splices, it may be immersed in fluids. Heating cable ELKM-AG is also suit-

able for use in the hazardous area. The robust PTFE outer jacket also renders this heating cable resistant against aggressive chemicals.



# Type **ELKM-AG-N** up to 260 °C

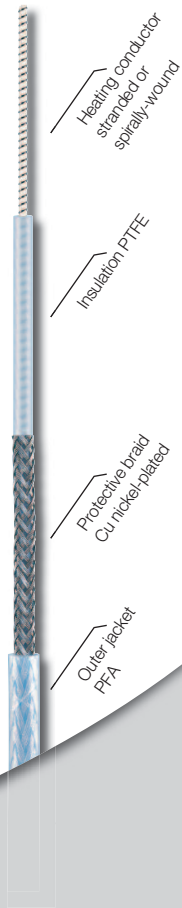
## Standards:

Manufactured according to . . . . . DIN VDE 0253, EN 62395-1  
 Short term . . . . . NH5Y1Q5Y 220  
 VDE marks approval . . . . . 40001594, 40024940  
 ATEX certificate . . . LCIE 01 ATEX 6048 X  
 Equipment category . . . . .  II 2G EEx e II T3, T4, T5

## Technical data:

Insulation . . . . . PTFE  
 Protective braid . . . . . Cu nickel-plated  
 Outer jacket . . . . . PFA  
 Nominal voltage . . . . . 500 V  
 Output max . . . . . 30 W/m\*  
 Operating temperature max.: 260 °C when switched off  
 Minimum bending radius. . . . 5 x External-Ø  
 Minimum installation temperature . . . . . – 50 °C  
 Moisture resistant . . . . . yes  
 Impact resistance . . . . . 4 Joule

\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.



Nominal resistance (Ω/km)	Outer diameter (mm)	Heating cable design	Temperature coefficient (1/K)	Item number
1.95	7.04	Stranded	0.00430	01TA002E
2.90	6.14	Stranded	0.00430	01TA003E
4.40	5.54	Stranded	0.00430	01TA004E
7.20	5.04	Stranded	0.00430	01TA007E
10.00	4.74	Stranded	0.00430	01TA010E
11.70	4.64	Stranded	0.00430	01TA011E
15.00	4.44	Stranded	0.00430	01TA015E
25.00	4.34	Stranded	0.00300	01TA025E
31.50	4.64	Stranded	0.00160	01TA031E
50.00	4.34	Stranded	0.00160	01TA050E
65.00	4.14	Stranded	0.00160	01TA065E
80.00	4.44	Stranded	0.00090	01TA080E
100.00	4.34	Stranded	0.00090	01TA110E
157.00	4.34	Stranded	0.00045	01TA115E
180.00	4.04	Stranded	0.00090	01TA118E
200.00	4.14	Stranded	0.00045	01TA120E
260.00	4.04	Stranded	0.00045	01TA126E

Nominal resistance (Ω/km)	Outer diameter (mm)	Heating cable design	Temperature coefficient (1/K)	Item number
280.00	3.94	Stranded	0.00038	01TA128E
328.00	4.24	Stranded	0.00018	01TA132E
360.00	3.84	Stranded	0.00045	01TA138E
430.00	4.04	Stranded	0.00018	01TA143E
480.00	4.04	Stranded	0.00018	01TA148E
600.00	3.94	Stranded	0.00018	01TA160E
800.00	3.84	Stranded	0.00018	01TA180E
1000.00	3.94	Stranded	0.00004	01TA210E
1470.00	3.74	Stranded	0.00004	01TA214E
1750.00	3.74	Stranded	0.00004	01TA217E
1900.00	4.04	Stranded	0.00040	01TA219E
2900.00	3.84	Stranded	0.00040	01TA229E
4000.00	3.74	Stranded	0.00040	01TA240E
4700.00	3.64	Stranded	0.00015	01TA247E
6000.00	3.54	Stranded	0.00020	01TA260E
7000.00	3.54	Stranded	0.00015	01TA270E
8000.00	3.54	Stranded	0.00015	01TA280E

Further resistances up to 1,500,000 Ω/Km upon request

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innovations in heat tracing



- Factory terminated
- Short bending radius
- Highly flexible
- High working temperature
- Can be used in almost all industrial areas
- Excellent chemical resistance
- Moisture resistant



## Type **ELK-AS, -AE**

### Application

Use on devices, receptacles, pipes, valves etc. with low corrosive effects, in which low bending radii also allow compact tracing on small components across the entire surface. Environmental conditions which corrode the braiding must be avoided. The heating cable is also avail-

able with corrosion-proof braiding consisting of SS AISI 304 under the name of: ELKM-AE.



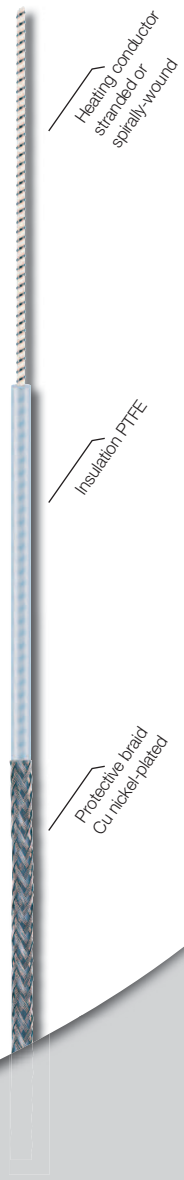
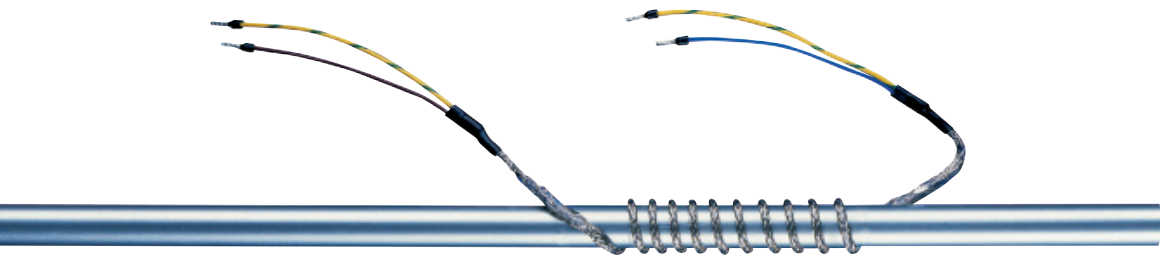
# Type **ELK-AS, -AE** up to 260 °C

## Standards:

Manufactured according to . . . . . DIN VDE 0253  
 Short term . . . . . NH5Y11Q220  
 VDE reg. no. . . . . 7615 (ELK-AS)  
 Final inspection according to . . . . . DIN VDE 0721 T 411  
 2.5 kV AC – 1 min

## Technical data:

Outer jacket . . . . . PTFE  
 Protective braid . . . . . Cu nickel-plated  
 Option SS AISI 304  
 Nominal voltage . . . . . 230 V  
 Output max . . . . . 25 W/m  
 Operating temperature max.. 260 °C when switched off  
 Heating cable Ø . . . . . 3.1 – 3.6 mm  
 Minimum bending radius. . . . 5 x External-Ø  
 Minimum installation temperature . . . . . – 50 °C  
 Moisture resistant . . . . . yes  
 Cold lead length on both sides . . . . . 1.2 m  
 Protection class . . . . . I



Item name	Heated length (m)	Nominal output (W) max. Temperature 100 °C	Item number	Nominal output (W) max. Temperature 150 °C	Item number	Nominal output (W) max. Temperature 200 °C	Item number
ELK-AS 1.2	1.2	30	0134011	–		–	
ELK-AS 2.2	2.2	54	0134021	–		–	
ELK-AS 3.4	3.4	78	0134031	52	0134032	24	0134033
ELK-AS 4.8	4.8	94	0134041	69	0134042	37	0134043
ELK-AS 6.0	6.0	147	0134061	88	0134062	44	0134063
ELK-AS 8.4	8.4	210	0134081	126	0134082	63	0134083
ELK-AS 10.8	10.8	245	0134101	163	0134102	82	0134103
ELK-AS 12.0	12.0	294	0134121	176	0134122	88	0134123
ELK-AS 14.0	14.0	344	0134141	–		–	
ELK-AS 20	20.0	464	0134201	294	0134202	–	
ELK-AS 25	25.0	623	0134251	371	0134252	192	0134253
ELK-AS 30	30.0	705	0134301	441	0134302	220	0134303
ELK-AS 35	35.0	864	0134351	521	0134352	–	
ELK-AS 42.0	42.0	1.008	0134421	611	0134422	315	0134423
ELK-AS 56.0	56.0	1.390	0134561	756	0134562	378	0134563

Further resistances available upon request; all output information are nominal outputs at + 20 °C

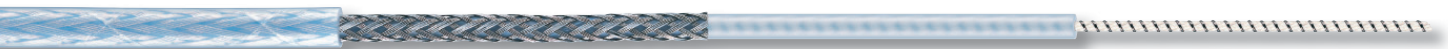
**eltherm**<sup>®</sup>  
innovations in heat tracing



- Factory terminated
- Excellent chemical resistance
- Can be used in all industrial areas
- Minimum impact resistance 4 Joules
- High working temperature
- Can be immersed in fluids



## Type **ELK-AG**



### Application


Factory terminated heating cable, suitable for assembly on devices, receptacles, pipes, valves and similar with a highly corrosive environment. Except for the connection sleeve, it may be immersed in fluids. Heating cable ELK-AG is also

suitable for use in the hazardous area. The robust PTFE outer jacket also renders this heating cable also resistant against aggressive chemicals.



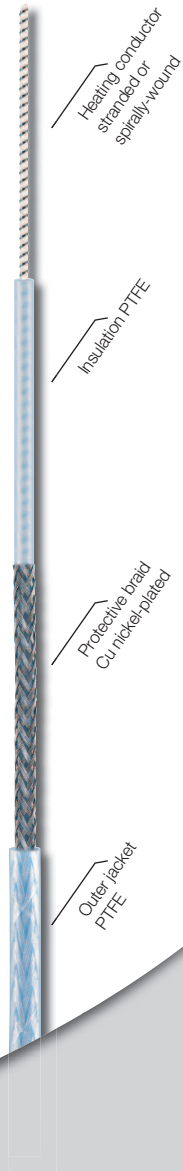
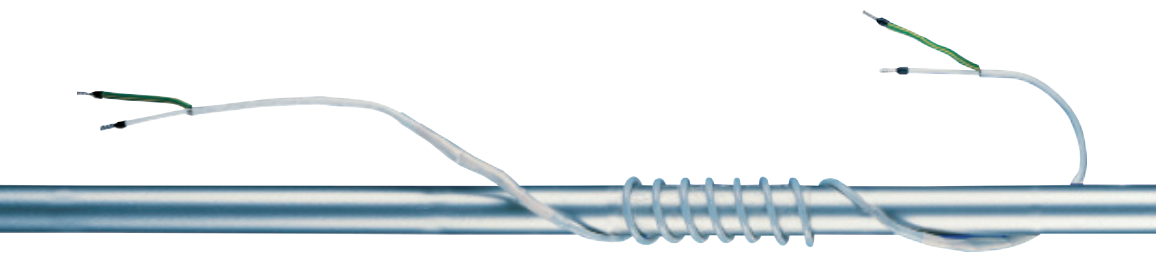
# Type **ELK-AG** up to 260 °C

## Standards:

Manufactured according to . . . . . DIN VDE 0253, EN 62395-1  
 Short term . . . . . NH5Y1Q5Y 220  
 VDE marks approval. . . . . 40001594, 40024940  
 ATEX certificate . . . LCIE 01 ATEX 6048 X  
 Equipment category . . . . .  II 2G EEx e II T3, T4, T5

## Technical data:

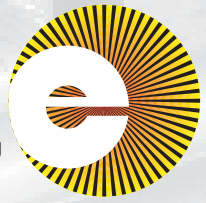
Insulation . . . . . PTFE  
 Protective braid . . . . . Cu nickel-plated  
 Outer jacket . . . . . PTFE  
 Nominal voltage . . . . . 230 V  
 Output . . . . . approx. 25 W/m  
 Operating temperature max.. 260 °C when switched off  
 Heating cable Ø . . . . . 4.1 – 4.8 mm  
 Minimum bending radius. . . . 5 x External-Ø  
 Moisture resistant . . . . . yes  
 Cold lead length on both sides . . . . . 1.2 m  
 Protection class . . . . . I  
 Impact resistance . . . . . 4 Joule



Item name	Heated length (m)	Nominal output (W) max. Temperature 100 °C	Item number	Nominal output (W) max. Temperature 150 °C	Item number	Nominal output (W) max. Temperature 200 °C	Item number
ELK-AG 1.2	1.2	30	0135011	–		–	
ELK-AG 2.2	2.2	54	0135021	–		–	
ELK-AG 3.4	3.4	78	0135031	52	0135032	24	0135033
ELK-AG 4.8	4.8	94	0135041	69	0135042	37	0135043
ELK-AG 6.0	6.0	147	0135061	88	0135062	44	0135063
ELK-AG 8.4	8.4	210	0135081	126	0135082	63	0135083
ELK-AG 10.8	10.8	245	0135101	163	0135102	82	0135103
ELK-AG 12.0	12.0	294	0135121	176	0135122	88	0135123
ELK-AG 14.0	14.0	344	0135141	–		–	
ELK-AG 20	20.0	464	0135201	294	0135202	–	
ELK-AG 25	25.0	623	0135251	371	0135252	192	0135253
ELK-AG 30	30.0	705	0135301	441	0135302	220	0135303
ELK-AG 35	35.0	864	0135351	521	0135352	–	
ELK-AG 42.0	42.0	1.008	0135421	611	0135422	315	0135423
ELK-AG 56.0	56.0	1.390	0135561	756	0135562	378	0135563

Further resistances available upon request; all output information are nominal outputs at + 20 °C

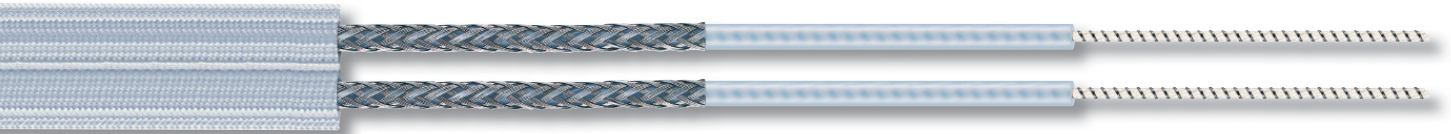
**eltherm**<sup>®</sup>  
innovations in heat tracing



- Factory terminated
- Can be used instantly
- Single end connection
- Highly flexible
- Gentle to surfaces
- Short bending radius
- Easy to assemble
- Moisture resistant



## Type **ELW-GN**



### Application

The factory terminated heating tape ELW-GN is suitable for heating apparatus, devices and systems in a non-corrosive environment and its preferred use is for glass

devices and systems with sensitive surfaces. This heating tape is also available upon request for hazardous area applications.





# Type **ELW-GN** up to 260 °C

## Standards:

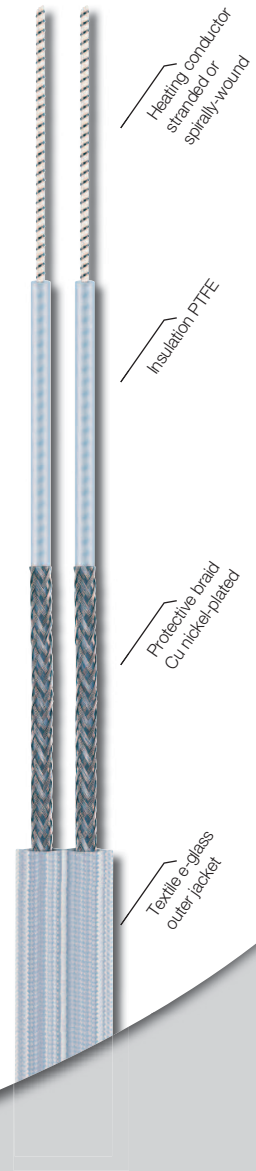
Manufactured according to . . . . . DIN VDE 0721  
 Short term based on DIN VDE 0253 . . . . . NH5YIQMF 220  
 VDE reg. no. . . . . 7615  
 Final inspection according to . . . . . DIN VDE 0721 T411  
 2.5 kV AC – 1 min

## Technical data:

Insulation . . . . . PTFE  
 Protective braid . . . . . Cu nickel-plated  
 Outer jacket . . . . . textiles E-Glas  
 Nominal voltage . . . . . 230 V  
 Output . . . . . approx. 50 W/m\*  
 Operating temperature max. 260 °C when switched off  
 Dimensions (W x H) . . . . . approx. 25 x 6 mm  
 Bending radius flat minimum . . . . . 10 mm  
 Minimum installation temperature . . . . . – 50 °C  
 Moisture resistant . . . . . yes  
 Connection . . . . . 1.2 m without plug  
 Protection class . . . . . I

\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.

Also available upon request for hazardous area applications.



Item name	Heated length (m)	Nominal output (W) max. Temperature 100 °C	Item number	Nominal output (W) max. Temperature 150 °C	Item number	Nominal output (W) max. Temperature 200 °C	Item number
ELW-GN 0.6	0.6	30	0231001	–		–	
ELW-GN 1.1	1.1	54	0231011	–		–	
ELW-GN 1.7	1.7	78	0231701	52	0231012	24	0231013
ELW-GN 2.4	2.4	94	0231021	69	0231022	37	0231023
ELW-GN 3.0	3.0	147	0231031	88	0231032	44	0231033
ELW-GN 4.2	4.2	210	0231041	126	0231042	63	0231043
ELW-GN 5.4	5.4	245	0231051	163	0231052	82	0231053
ELW-GN 6.0	6.0	294	0231061	176	0231062	88	0231063
ELW-GN 7.0	7.0	344	0231071	–		–	
ELW-GN 10.0	10.0	464	0231101	294	0231102	–	
ELW-GN 12.5	12.5	623	0231121	371	0231122	192	0231123
ELW-GN 15.0	15.0	705	0231151	441	0231152	220	0231153
ELW-GN 17.5	17.5	864	0231171	521	0231172	–	
ELW-GN 21.0	21.0	1.008	0231211	611	0231212	315	0231213
ELW-GN 28.0	28.0	1.390	0231281	756	0231282	378	0231283

Further resistances available upon request; all output information are nominal outputs at + 20 °C

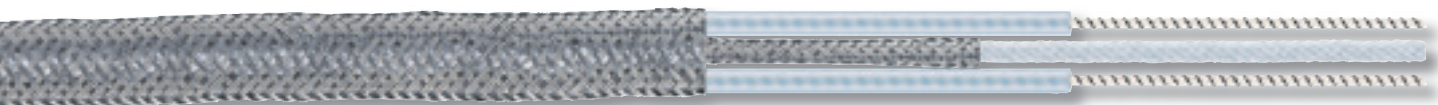
**eltherm**<sup>®</sup>  
innovations in heat tracing



- Factory terminated
- Can be used instantly
- Single end connection
- Highly flexible
- Short bending radius
- Small outer diameter
- Robust
- Easy to assemble
- Moisture resistant



## Type **ELW-VA**



### Application


The factory terminated heating tape ELW-VA is suitable for heating apparatus, devices and systems in a corrosive environment. The minimal dimensions of the heating tape enable close tracing. The heating tape is not sensitive to

rough surfaces. This heating tape is also available upon request for hazardous area applications.



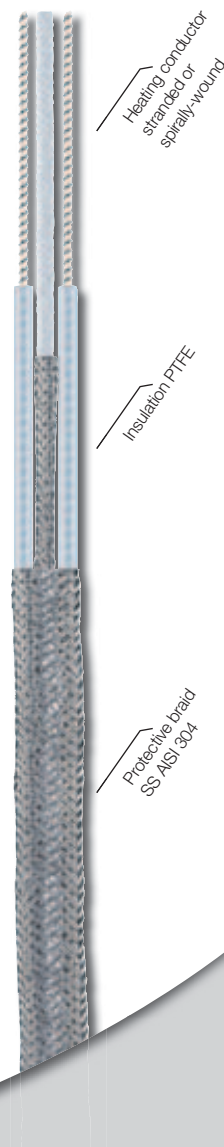
# Type ELW-VA up to 260 °C

## Standards:

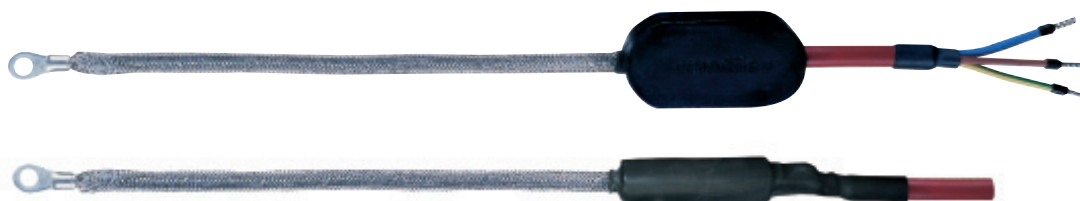
Manufactured according to . . . . . DIN VDE 0721  
 Short term based on DIN VDE 0253 . . . . NH5Y11Q 220  
 Final inspection according to . . . . . DIN VDE 0721 T411  
 2.5 kV AC – 1 min  
 ATEX certificate . . . LCIE01ATEX 6048X  
 Equipment category . . . . .  II 2G EEx e II T3, T4, T5

## Technical data:

Insulation . . . . . PTFE  
 Protective braid . . . . . SS AISI 304  
 Output . . . . . ~ 50 W/m\*  
 Operating temperature max. 260 °C when switched off  
 Dimensions  
 Heating tape (W x H) . . . . . ~ 10 x 5 mm  
 Dimensions of the sleeve (W x H x L) . . . . 32 x 16 x 65 mm  
 Bending radius flat minimum . . . . . 15 mm  
 Minimum installation temperature . . . . . – 30 °C  
 Moisture resistant . . . . . yes  
 Connection . . . . . 1.2 m silicone cable without plug  
 Protection class . . . . . I



\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.

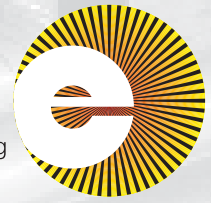


Item name	Heated length (m)	Nominal output (W) max. Temperature 100 °C	Item number	Nominal output (W) max. Temperature 150 °C	Item number	Nominal output (W) max. Temperature 200 °C	Item number
ELW-VA 0.6	0.6	30	0232001	–		–	
ELW-VA 1.1	1.1	54	0232011	–		–	
ELW-VA 1.7	1.7	78	0232701	52	0232012	24	0232013
ELW-VA 2.4	2.4	94	0232021	69	0232022	37	0232023
ELW-VA 3.0	3.0	147	0232031	88	0232032	44	0232033
ELW-VA 4.2	4.2	210	0232041	126	0232042	63	0232043
ELW-VA 5.4	5.4	245	0232051	163	0232052	82	0232053
ELW-VA 6.0	6.0	294	0232061	176	0232062	88	0232063
ELW-VA 7.0	7.0	344	0232071	–		–	
ELW-VA 10.0	10.0	464	0232101	294	0232102	–	
ELW-VA 12.5	12.5	623	0232121	371	0232122	192	0232123
ELW-VA 15.0	15.0	705	0232151	441	0232152	220	0232153
ELW-VA 17.5	17.5	864	0232171	521	0232172	–	
ELW-VA 21.0	21.0	1.008	0232211	611	0232212	315	0232213
ELW-VA 28.0	28.0	1.390	0232281	756	0232282	378	0232283

Further resistances available upon request; all output information are nominal outputs at + 20 °C

Do you have any further questions? Telephone: +65 6634-9100 or [www.eltherm.com](http://www.eltherm.com)

**eltherm**<sup>®</sup>  
innovations in heat tracing



- Factory terminated
- High output
- Can be used instantly
- Highly flexible
- Short bending radius
- Small outer diameter
- Easy to assemble



## Type **ELK-H**

### Application

The factory terminated heating cable ELK-H is suitable for heating apparatus, devices and systems in a dry environ-

ment with protected installation. Preferably used for glass devices and systems with high output requirements.



# Type ELK-H up to 450 °C

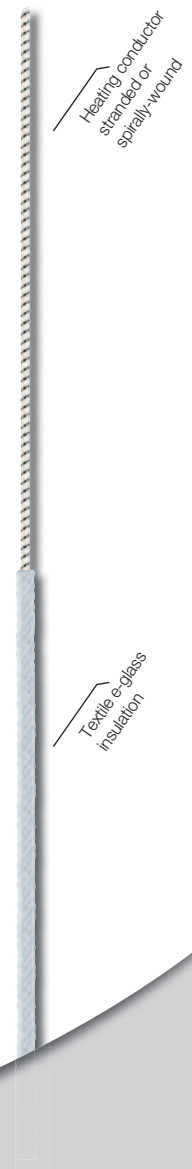
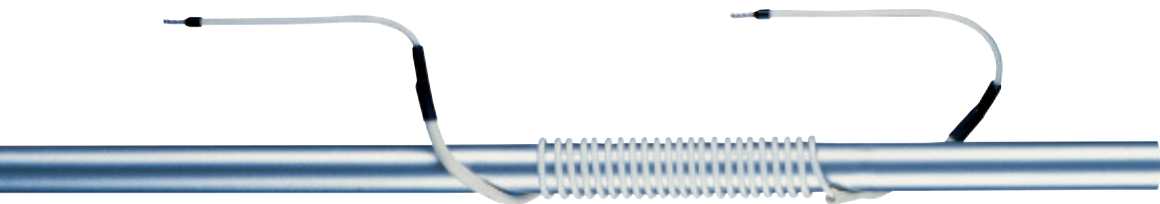
## Standards:

Manufactured according to . . . . . DIN VDE 0721 T2  
 Short term based on DIN VDE 0253 . . . . NHMF 500  
 Final inspection according to . . . . . DIN VDE 0721 T2  
 1.5 kV AC – 1 min

## Technical data:

Insulation . . . . . Textile e-glass  
 Nominal voltage . . . . . 230 V  
 Output . . . . . ~ 125 W/m\*  
 Operating temperature max. 450 °C when switched off  
 Diameter. . . . . 3.5 – 4.5 mm  
 Minimum bending radius. . . . . 8 mm  
 Minimum installation temperature . . . . . Not restricted  
 Moisture resistant . . . . . no  
 Cold end length . . . . . 1.2 m  
 Protection class . . . . . determined by installation

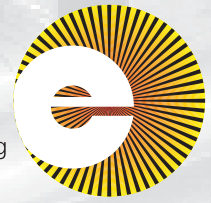
\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.



Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number	Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number
ELK-H 0.5	0.5	60	1700.00	0140002	ELK-H 5.0	5.0	622	17.00	0140020
ELK-H 1.0	1.0	126	420.00	0140005	ELK-H 6.5	6.5	768	10.60	0140024
ELK-H 1.4	1.4	180	210.00	0140008	ELK-H 8.5	8.5	1090	5.71	0140027
ELK-H 2.2	2.2	240	100.00	0140012	ELK-H 10.0	10.0	1336	3.96	0140029
ELK-H 3.0	3.0	375	47.00	0140014	ELK-H 13.5	13.5	1757	2.23	0140033
ELK-H 4.2	4.2	504	25.00	0140018	ELK-H 16.5	16.5	2030	1.58	0140036

Further resistances available upon request

**eltherm**<sup>®</sup>  
innovations in heat tracing



- Factory terminated
- Increased safety due to Protective braid
- High output
- Can be used instantly
- Highly flexible
- Short bending radius
- Small outer diameter
- Easy to assemble



## Type **ELK-HS**



### Application

For heating apparatus, devices and systems in a dry environment. Preferably used for devices and systems with high output requirements. Low dimensions and high flexibility simplify assembly. The outer braiding provides

protection against mechanical damages and can be incorporated in the electrical protection measures.



# Type ELK-HS up to 450 °C

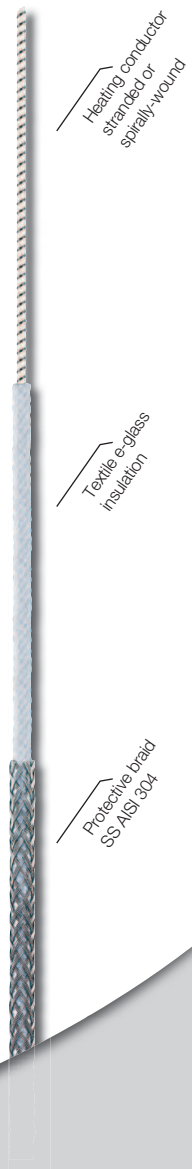
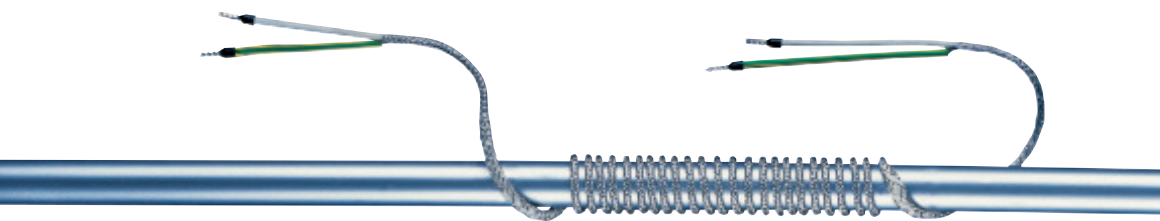
## Standards:

Manufactured according to . . . . . DIN VDE 0721 T2  
 Short term based on DIN VDE 0253 . . . . NHMFQ 500  
 Final inspection according to . . . . . DIN VDE 0721 T2  
 1.5 kV AC – 1 min

## Technical data:

Insulation . . . . . Textile e-glass  
 Protective braid . . . . . SS AISI 304  
 Nominal voltage . . . . . 230 V  
 Output . . . . . ~ 125 W/m\*  
 Operating temperature max. 450 °C when switched off  
 Diameter . . . . . 4.5 mm  
 Minimum bending radius . . . . 8 mm  
 Minimum installation temperature . . . . . Not restricted  
 Moisture resistant . . . . . no  
 Cold lead length on both sides . . . . . 1.2 m  
 Protection class . . . . . I

\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.



Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number	Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number
ELK-HS 0.5	0.5	60	1700.00	0140102	ELK-HS 5.0	5.0	622	17.00	0140120
ELK-HS 1.0	1.0	126	420.00	0140105	ELK-HS 6.5	6.5	768	10.60	0140124
ELK-HS 1.4	1.4	180	210.00	0140108	ELK-HS 8.5	8.5	1090	5.71	0140130
ELK-HS 2.2	2.2	240	100.00	0140112	ELK-HS 10.0	10.0	1336	3.96	0140129
ELK-HS 3.0	3.0	375	47.00	0140114	ELK-HS 13.5	13.5	1757	2.23	0140133
ELK-HS 4.2	4.2	504	25.00	0140118	ELK-HS 16.5	16.5	2030	1.58	0140136

Further resistances available upon request

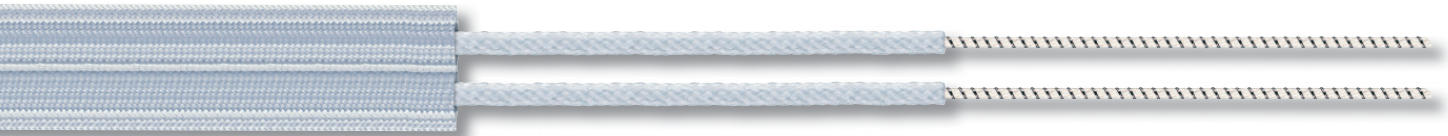
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innovations in heat tracing



- Factory terminated
- Can be used instantly
- Single end connection
- High output
- Highly flexible
- Gentle to surfaces
- Short bending radius
- Good value
- Easy to assemble



## Type **ELW-H**



### Application

It is used to heat glass, quartz or ceramic devices and systems in a non-corrosive and dry environment. The tape is highly flexible, does not damage the surfaces and is suitable for high output applications. The heating tape

should be protected mechanically and adjacent metallic parts should be incorporated in the electrical protection measures.





# Type **ELW-H** up to 450 °C

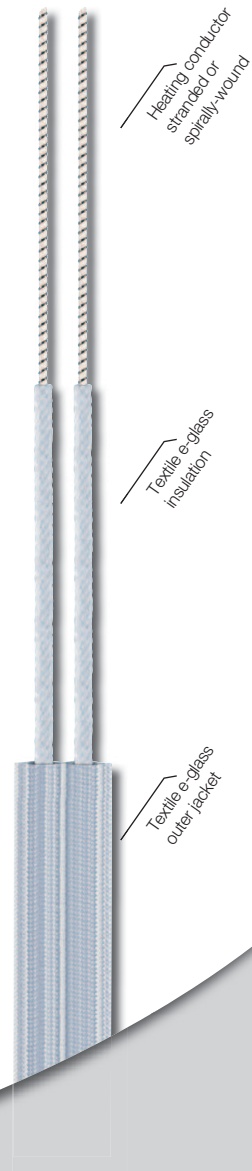
## Standards:

Manufactured according to . . . . . DIN VDE 0721 T2  
 Short term based on DIN VDE 0253 . . . . NHMFMMF 500  
 Final inspection according to . . . . . DIN VDE 0721 T411  
 1.5 kV AC – 1 min

## Technical data:

Insulation . . . . . Textile e-glass  
 Outer jacket . . . . . Textile e-glass  
 Nominal voltage . . . . . 230 V  
 Output . . . . . ~ 250 W/m\*  
 Operating temperature max. 450 °C when switched off  
 Dimensions (W x H) . . . . . 30 x 5 mm  
 Bending radius flat minimum . . . . . 10 mm  
 Minimum installation temperature . . . . . Not restricted  
 Moisture resistant . . . . . no  
 Connection . . . . . 1.2 m without plug  
 Protection class . . . . . determined by installation

\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.



Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number
ELW-H 0.50	0.50	122	420.00	0240002
ELW-H 0.70	0.70	175	210.00	0240005
ELW-H 1.10	1.10	240	100.00	0240009
ELW-H 1.50	1.50	375	47.00	0240011
ELW-H 2.10	2.10	504	25.00	0240015
ELW-H 2.50	2.50	622	17.00	0240017

Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number
ELW-H 3.25	3.25	768	10.60	0240021
ELW-H 4.25	4.25	1090	5.71	0240024
ELW-H 5.00	5.00	1336	3.96	0240026
ELW-H 6.75	6.75	1757	2.23	0240030
ELW-H 8.25	8.25	2030	1.58	0240033

Further resistances available upon request

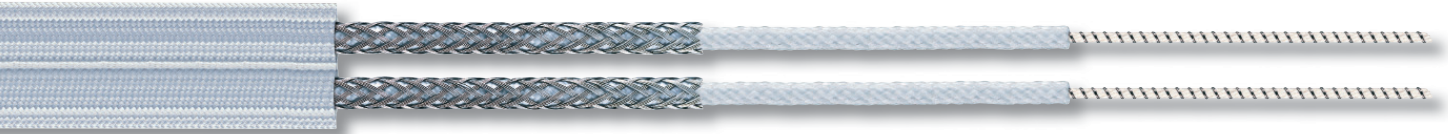
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innovations in heat tracing



- Factory terminated
- Can be used instantly
- Single end connection
- Increased safety due to braiding
- High output
- Highly flexible
- Does not damage the surfaces
- Short bending radius
- Easy to assemble



## Type **ELW-HS**



### Application

It is used to heat devices, pipes, valves and systems in a non-corrosive and dry environment. The heating tape is highly flexible, does not damage the surfaces and is suitable for high output applications. The braiding provides

protection against mechanical damages and can be incorporated in the electrical protection measures.



# Type ELW-HS up to 450 °C

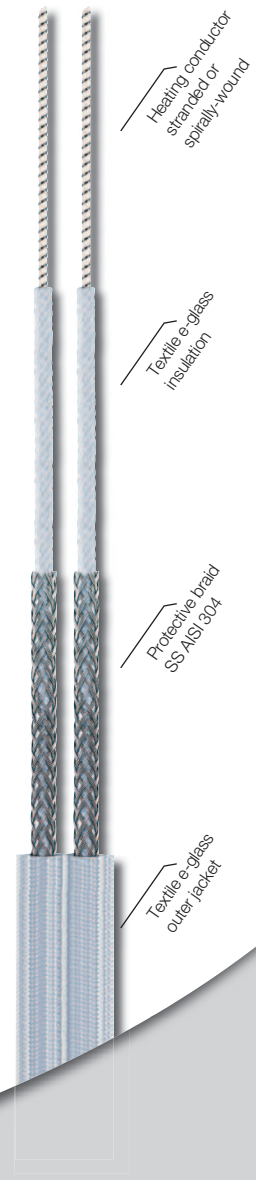
## Standards:

Manufactured according to . . . . . DIN VDE 0721 T2  
 Short term based on DIN VDE 0253 . . . . HNMFQMF 500  
 Final inspection according to . . . . . DIN VDE 0721 T411  
 1.5 kV AC – 1 min

## Technical data:

Insulation . . . . . Textile e-glass  
 Protective braid . . . . . SS AISI 304  
 Outer jacket . . . . . Textile e-glass  
 Output . . . . . ~ 250 W/m\*  
 Operating temperature max. 450 °C when switched off  
 Dimensions (W x H) . . . . . 30 x 5 mm  
 Bending radius flat minimum . . . . . 10 mm  
 Minimum installation temperature . . . . . Not restricted  
 Moisture resistant . . . . . no  
 Connection . . . . . 1.2 m without plug (different cold cable length optionally available)  
 Protection class . . . . . I

\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.

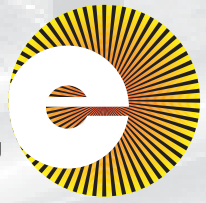


Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number
ELW-HS 0.50	0.50	126	420.00	0240102
ELW-HS 0.70	0.70	180	210.00	0240105
ELW-HS 1.10	1.10	240	100.00	0240109
ELW-HS 1.50	1.50	375	47.00	0240111
ELW-HS 2.10	2.10	504	25.00	0240115
ELW-HS 2.50	2.50	622	17.00	0240117

Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number
ELW-HS 3.25	3.25	768	10.60	0240121
ELW-HS 4.25	4.25	1090	5.71	0240124
ELW-HS 5.00	5.00	1336	3.96	0240126
ELW-HS 6.75	6.75	1757	2.23	0240130
ELW-HS 8.25	8.25	2030	1.58	0240134

Further resistances available upon request

**eltherm**<sup>®</sup>  
innovations in heat tracing



- Factory terminated
- High output
- High working temperature
- Can be used instantly
- Highly flexible
- Short bending radius
- Does not damage the surfaces



## Type **ELK-Q**

### Application

The preferred use of the heating cable is for glass, quartz or ceramic devices and systems with the highest output requirements in a dry environment. Low dimensions and high flexibility simplify assembly. The heating cable must be installed touch-protected. If you plan to use the heating

cable on metal and at an operating temperature in excess of 650 °C, consult our project engineers.



# Type **ELK-Q** up to 900 °C

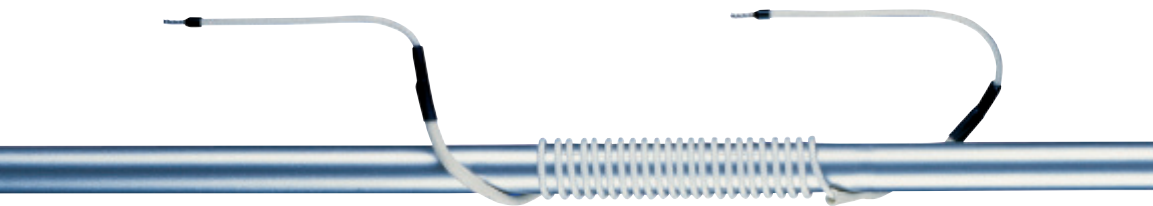
## Standards:

Manufactured according to . . . . . DIN VDE 0721 T2  
 Short term based on DIN VDE 0253 . . . . HNMF 1000  
 Final inspection according to . . . . . DIN VDE 0721 T2  
 1.5 kV AC – 1 min

## Technical data:

Insulation . . . . . Textile quartz  
 Nominal voltage . . . . . 230 V  
 Output . . . . . ~ 175 W/m\*  
 Operating temperature max.. 900 °C when switched off  
 Diameter. . . . . 4 mm  
 Minimum bending radius. . . . 5 x External-Ø  
 Minimum installation temperature . . . . . Not restricted  
 Moisture resistant . . . . . no  
 Cold end length . . . . . 1.2 m  
 Protection class . . . . . determined by installation

\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.



Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number
ELK-Q 0.6	0.6	106	830.00	0160003
ELK-Q 1.2	1.2	138	320.00	0160006
ELK-Q 1.4	1.4	270	140.00	0160007
ELK-Q 2.0	2.0	319	83.00	0160011
ELK-Q 3.1	3.1	533	32.00	0160014

Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number
ELK-Q 4.0	4.0	696	19.00	0160017
ELK-Q 5.0	5.0	822	12.00	0160020
ELK-Q 6.0	6.0	1062	8.30	0160023
ELK-Q 8.0	8.0	1438	4.60	0160026
ELK-Q 10.0	10.0	1653	3.20	0160029

Further resistances available upon request

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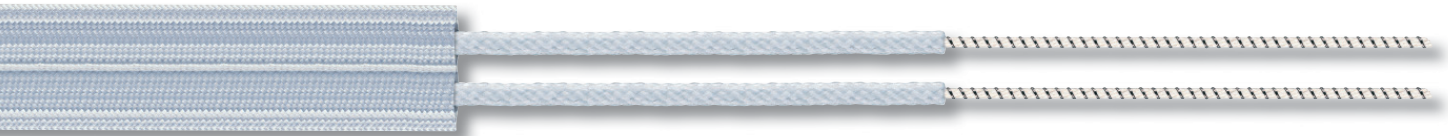
**eltherm**<sup>®</sup>  
innovations in heat tracing



- Factory terminated
- High output
- High working temperature
- Can be used instantly
- Highly flexible
- Short bending radius
- Does not damage the surfaces
- Single end connection



## Type **ELW-Q**



### Application

It is used for glass, quartz or ceramic devices and systems with the highest output requirements in a dry environment. Single end connection and high flexibility simplify assembly. The heating tape must be installed touch-protected.

If you plan to use the heating cable on metal and at an operating temperature in excess of 650 °C, consult our project engineers.



# Type **ELW-Q** up to 900 °C

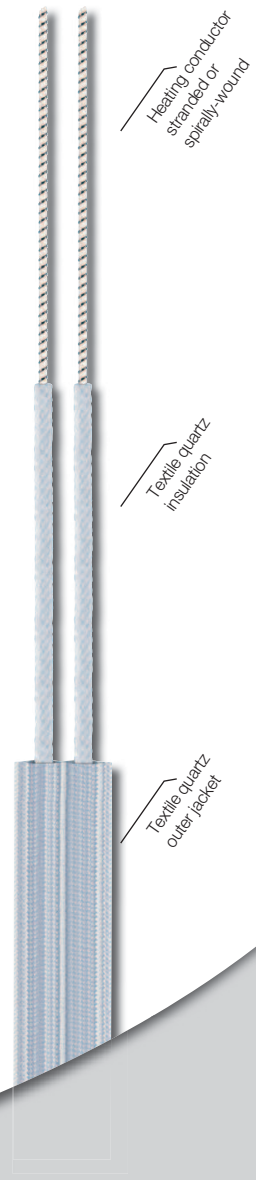
## Standards:

Manufactured according to . . . . . DIN VDE 0721 T2  
 Short term based on DIN VDE 0253 . . . . HNMFMFMF 1000  
 Final inspection according to . . . . . DIN VDE 0721 T2  
 1.5 kV AC – 1 min

## Technical data:

Insulation . . . . . Textile quartz  
 Outer jacket . . . . . Textile quartz  
 Output approx. ca. . . . . 350 W/m\*  
 Operating temperature max. 900 °C when switched off  
 Dimensions (W x H) . . . . . ~ 25 x 6 mm  
 Bending radius flat minimum. . . . . 10 mm  
 Minimum installation temperature . . . . . Not restricted  
 Moisture resistant . . . . . no  
 Connectionkabellänge . . . . . 1.2 m  
 Connection. . . . . option with plug available upon request

\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.



Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number
ELW-Q 0.60	0.60	138	320.00	0260003
ELW-Q 0.70	0.70	270	140.00	0260005
ELW-Q 1.00	1.00	319	83.00	0260008
ELW-Q 1.55	1.55	533	32.00	0260012
ELW-Q 2.00	2.00	696	19.00	0260014

Item name	Heated length (m)	Output approx. (W)	RL Ω/m	Item number
ELW-Q 2.50	2.50	882	12.00	0260017
ELW-Q 3.00	3.00	1062	8.30	0260020
ELW-Q 4.00	4.00	1438	4.60	0260023
ELW-Q 5.00	5.00	1653	3.20	0260026

Further resistances available upon request

**eltherm**<sup>®</sup>  
innovations in heat tracing



- Factory terminated
- Hermetically sealed metal sheath
- Highly robust and mechanically stable under load
- Moisture proof
- Excellent chemical resistance
- High output per m



## Type **ELK-MI/F**



### Application

Factory terminated heating cable, suitable for assembly on systems, apparatus, receptacles, pipes, valves and similar. Moisture proof applications at high outputs and temperatures. Can be immersed in fluids. We also provide this version for hazardous areas.

Information: Avoid frequent bending with a minimal bending radius (risk of breakage and micro cracks).





# Type ELK-MI/F up to 400 °C

## Technical data:

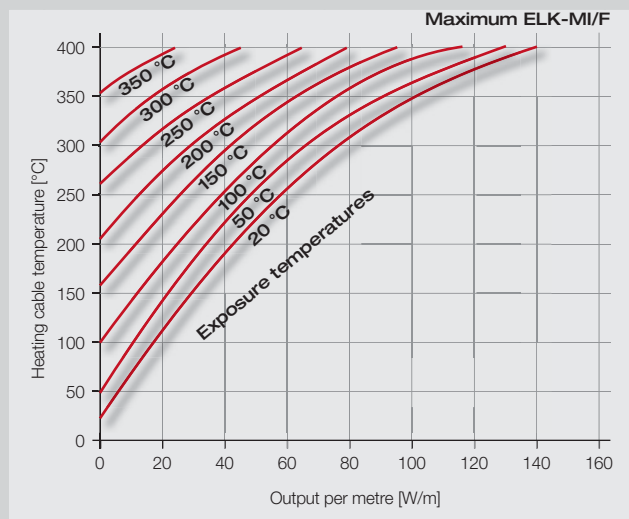
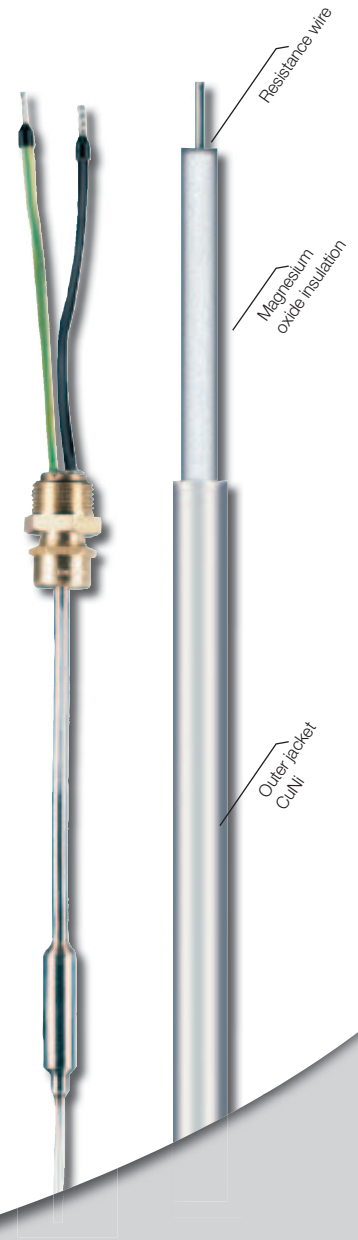
Insulation . . . . . Magnesium oxide  
 Outer jacket . . . . . alloy outer jacket  
 Nominal voltage . . . . . 500 V  
 Output max . . . . . up to 150 W/m\*, dependent on the operating temperature  
 Operating temperature max.. up to 600 °C when switched off  
 Minimum bending radius. . . . . 5 x External-Ø  
 Minimum installation temperature . . . . . Not restricted  
 Moisture resistant . . . . . yes  
 Cable gland . . . . . M 20 x 1.5  
 Cold lead length on both sides . . . . . 0.7 m

\* Information: The output per meter of heating cable and the maximum possible working temperatures depend on the respective application. We recommend that you contact our engineers on an individual basis – we will gladly assist you.

Nominal resistance (Ω/m)	Outer Diameter (mm)	Multiplication factor ★
0.16	4.9	1.40
0.25	4.4	1.27
0.40	4.0	1.16
0.63	3.7	1.08
1.00	3.4	1.00
1.60	3.2	0.93

Conductor cross-section (mm <sup>2</sup> )	Outer Diameter (mm)
2.5	5.3
6.0	6.4



## Information regarding design:

The maximum operating temperature (pipe and surface temperature) is generally known for electrical heating system. This is the exposure temperature for the heating. If you track the respective "exposure temperature" curve, there is a correlation between the heating cable temperature (vertically) and specific output (horizontally).

The specific output must be multiplied by the existing heating cable factor as the heating cable diameter and material must be taken into account for design.

Consult our project engineers.

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innovations in heat tracing



- Factory terminated
- Hermetically sealed metal sheath
- Highly robust and mechanically stable under load
- Moisture proof
- Excellent chemical resistance
- High working temperature
- High output per m



## Type **ELK-MI/VA**



### Application

Factory terminated heating cable, suitable for assembly on systems, apparatus, receptacles, pipes, valves and similar in a corrosive and rough environment. Moisture proof applications with highest output and temperatures. Can be immersed in fluids. Due to the high permissible surface

temperatures, the heating cable can also be used as an infrared dark radiator.

eltherm<sup>®</sup> also supplies this model for use in hazardous applications, please refer to the catalogue for further data: heating and accessories for hazardous applications.



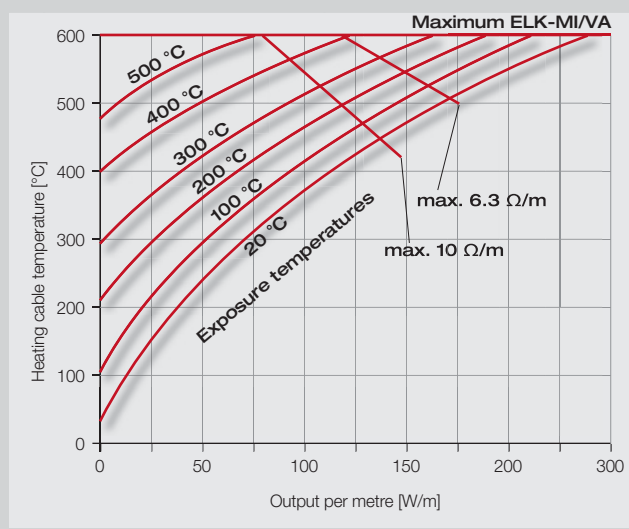
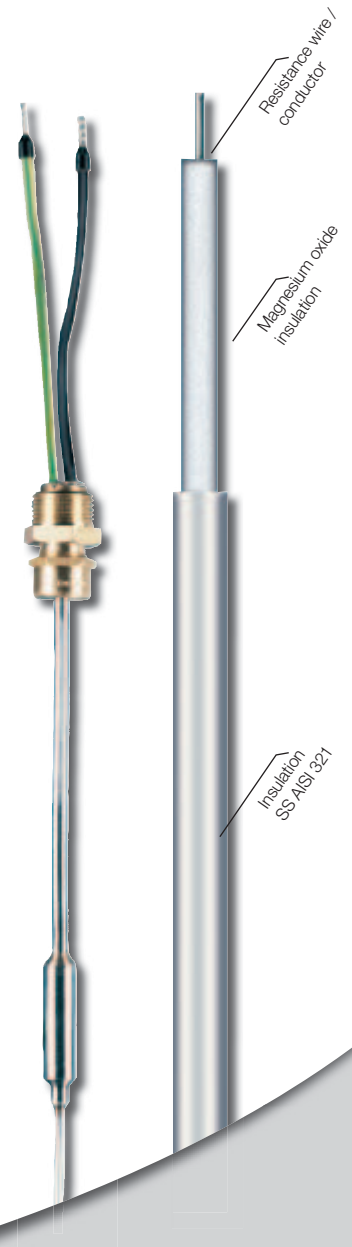
# Type ELK-MI/VA up to 600 °C

## Technical data:

Insulation . . . . . Magnesium oxide  
 Outer jacket . . . . . SS AISI 321  
 Nominal voltage . . . . . 500 V  
 Output max . . . . . Refer to information on design  
 Operating temperature max.. Refer to information on design  
 Minimum bending radius. . . . . 5 x External-Ø  
 Minimum installation temperature . . . . . Not restricted  
 Moisture resistant . . . . . yes  
 Cable gland . . . . . M 20 x 1.5  
 Cold lead length on both sides . . . . . 0.7 m (standard, other lengths possible)

Nominal resistance	Outer Diameter (mm)	Multiplication factor ★
0.16	6.5	1.86
0.25	5.3	1.55
0.40	4.7	1.40
0.63	4.3	1.30
1.00	3.9	1.19
1.60	3.6	1.11
2.50	3.4	1.05
4.00	3.2	1.00
6.30	3.2	1.00
10.00	3.2	1.00

Connector cross-section (mm <sup>2</sup> )	Outer Diameter (mm)
2.5	5.3
6.0	6.4



## Information regarding design:

The maximum operating temperature (pipe and surface temperature) is generally known for electrical heating system. This is the exposure temperature for the heating. If you track the respective “exposure temperature” curve, there is a correlation between the heating cable temperature (vertically) and specific output (horizontally).

The specific output must be multiplied by the existing heating cable factor as the heating cable diameter and material must be taken into account for design.

Consult our project engineers.

**eltherm**<sup>®</sup>  
innovations in heat tracing



- Long heating circuit lengths
- Simple termination
- Different nominal voltages
- Moisture proof
- Highly flexible



## Type **ELW-3-FEP/PVC**



### Application

The eltherm<sup>®</sup> ELW-3-FEP/PVC was developed for specific customer demands – the requirement was to cover very long distances with one heating cable. The heating cable is applied for frost protection, a typical application range are for example pipes in tunnels.

The heating cable consists of three high-quality resistance wires with an insulation out of chemically resistant FEP. Additionally the heating cable is protected by a PVC outer jacket.

A simple installation is ensured.

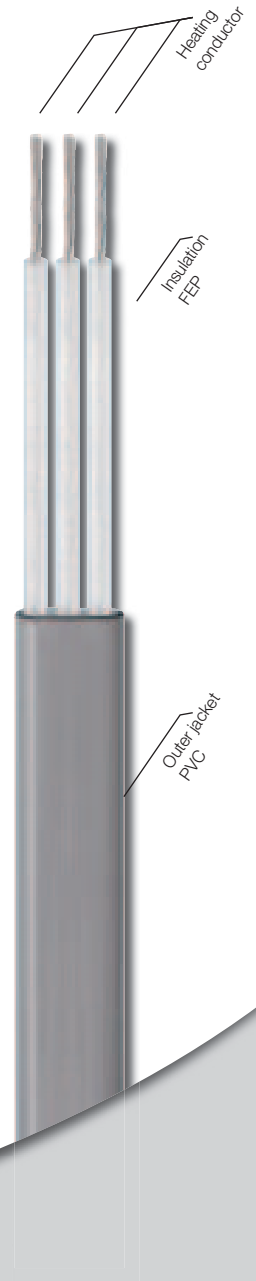


# Type ELW-3-FEP/PVC

up to 105 °C

## Technical data:

Insulation . . . . . FEP  
 Outer jacket . . . . . PVC  
 Colour . . . . . grey  
 Nominal voltage . . . . . 300/500 V  
 Output max. . . . . 25 W/m  
 Operating temperature max. . . . . 90 °C when  
 switched off  
  
 Short term  
 operating temperature . . . . . 105 °C  
 Insulation thickness . . . . . 1 mm  
 Bending radius . . . . . 30 mm



Type	Resistance $\Omega/m$	Minimum heating circuit length* in m (400 V/Star)	Dimension in mm (+/- 0.2 mm)	Item number
3 x 0.50 mm <sup>2</sup>	0.0342	435	5.2 x 17.1	03T0342
3 x 0.75 mm <sup>2</sup>	0.0238	520	5.2 x 17.1	03T0238
3 x 1.00 mm <sup>2</sup>	0.0171	610	5.2 x 17.1	03T0171
3 x 1.50 mm <sup>2</sup>	0.0115	750	5.2 x 17.1	03T0115
3 x 2.50 mm <sup>2</sup>	0.0070	952	8.0 x 20.6	03T0070
3 x 4.00 mm <sup>2</sup>	0.0043	1215	8.0 x 20.6	03T0043
3 x 6.00 mm <sup>2</sup>	0.0029	1480	8.0 x 20.6	03T0029

\* Attention: The minimal heating circuit length may not be undercut.  
 Please contact our engineers in case of questions.



**eltherm**<sup>®</sup>  
innovations in heat tracing



- Small outer diameter
- Highly flexible
- Moisture proof
- Short bending radius
- Different nominal voltages



## Type **EL-Floor Single/Twin**



### Application

The EL-Floor heating cables are our floor heating cables, available in the versions EL-Floor-Single and EL-Floor-Twin. These moisture resistant heating cables are sewn onto or glued to thin bed heating mats for example and used to heat floors, walls and similar. Due to the low outer diameter, the EL-Floor heating cables boast a wide range of applications, also making them especially well-suited

for renovation work. The heating cable EL-Floor-Twin is also equipped with the return conductor as heating cable, distributing the heating output on the full section between 2 heating cables. Both EL-Floor heating cables can be delivered in all RAL colours upon request. Their further important features include the short bending radius and high flexibility.







Abbreviated marking	Description	Item number
<b>1</b> Connection and termination kits		
ELVB10	ELVB10 connection / termination set for heating cable ELP/Si with cable gland M25	0911040
ELVB08	Connection / termination set for heating cables ELP/FEP and ELP/PFA with cable gland M20	0911032
ELVB22	Connection set for heating cable ELKM-A for 1.5 mm <sup>2</sup>	0911048
ELVB26	Connection set for heating cable ELKM-AS for 1.5 mm <sup>2</sup>	0911052
ELVB30	Connection set for heating cable ELKM-AG for 1.5 mm <sup>2</sup>	0911056
ELVB30-1	Connection set for heating cable ELKM-AG for 2.5 mm <sup>2</sup>	0911058
ELVB-SREC-1	End termination kit for ELSR-N, -L, -W, ELP	0911248
EXCon 25/7	Small PEEK-sleeve for ELG-AG, D=25 x 115 mm	0X81115
ExCon 36/4	Big PEEK-sleeve for ELK-AG; D=36 x 175 mm 4J II 2G Ex e II T6...T3 II 2D Ex tD A21 IP65 TX	0X81120
ExCon 22/4	PEEK-sleeve for ELK-AG; D=22 x 115 mm II 2 GD Ex e II T6...T3 IP 65 TX 4J	0X81135
<b>2</b> Junction boxes		
ELAK-2	Junction box 98 x 98 x 58 mm, 7 ea. M25 knock outs, incl. 2 cable glands M25	0920001
ELAK-5.1	Junction Box 130x130x75mm, 9xM20/M25, 2xM20, 1xM25/M32 knock-outs	0920002
ELAK-5.7	Junction Box 122x120x90mm, for up to 3x ELSR	0920014
ELAK-6	Junction box 98 x 98 x 58 mm, 1xM 25, 6xM20	0920016
ELAK-7	Junction box 260 x190 x 190 mm, 1xM25, 9xM16	0920019
Ex-It-R	Junction box w. multiple entry stand assembly, 6mm <sup>2</sup> terminals	0x80070
Ex-It-R	Junction box w. multiple entry stand assembly, 10mm <sup>2</sup> terminals	0x80081
ELAK-Ex-R1	Junction Box, star point ELK-AG	0x80071
ELAK-Ex-R2	Junction Box, up to 3 ELK-AG	0x80072
ELAK-Ex-R3	Junction Box Polyester for ELW-VA	0x80073
ELAK-Ex-R4	Junction Box Polyester for ELK-AG + EL-CT	0x80074
ELAK-Ex-R5	Junction Box Polyester, ELSR + EL-CT	0x80075
ELAK-Ex-R6	Junction Box Polyester for ELW-VA + EL-CT	0x80076
ELAK-Ex-R7	Junction Box Polyester, 1-3 ELSR	0x80077
ELAK-Ex-R8	Junction Box Polyester for 2x Ex-PT100	0x80078
ELAK-Ex 3.1	Junction box, 122 x 120 x 90 for star point ELK-AG	0X80051
ELAK-Ex 3.2	Junction box, 122 x 120 x 90 for 1-3 ELK-AG	0X80052
ELAK-EX 3.3	Junction box 122 x 120 x 90 for ELW-VA	0X80053
ELAK-Ex 3.4	Junction box, 122 x 120 x 90 for ELK-AG + EL-CT	0X80054
ELAK-Ex 3.5	Junction box 122 x 20 x 90 for ELSR + EL-CT	0X80055
ELAK-Ex 3.6	Junction box 122 x 20 x 90 for ELW-VA+EL-CT	0X80056
ELAK-Ex 3.7	Junction box 122 x 20 x 90 for up to 3x ELSR	0X80057
ELAK-Ex 3.8	Junction box 122 x 20 x 90 for up to 2x Pt100	0X80058
<b>3</b> Pipe mounting brackets		
ELMW-5	Pipe mounting brackets for ELAK-2	0941005
ELMW-9	Pipe mounting brackets for ELAK-Ex-3, and ELAK-5	0941009
ELMW-11	Pipe mounting brackets for ELAK 5.1, ELTC 1-4/05	0941011
ELMW-13	Pipe mounting brackets for ELAK-6	0941013
ELMW-15	Pipe mounting brackets for ELAK-7	0941015
ELMW-CT	for EL-CTB, EL-CTC	0941025
ELMW-R	for ELAK-Ex-R	special



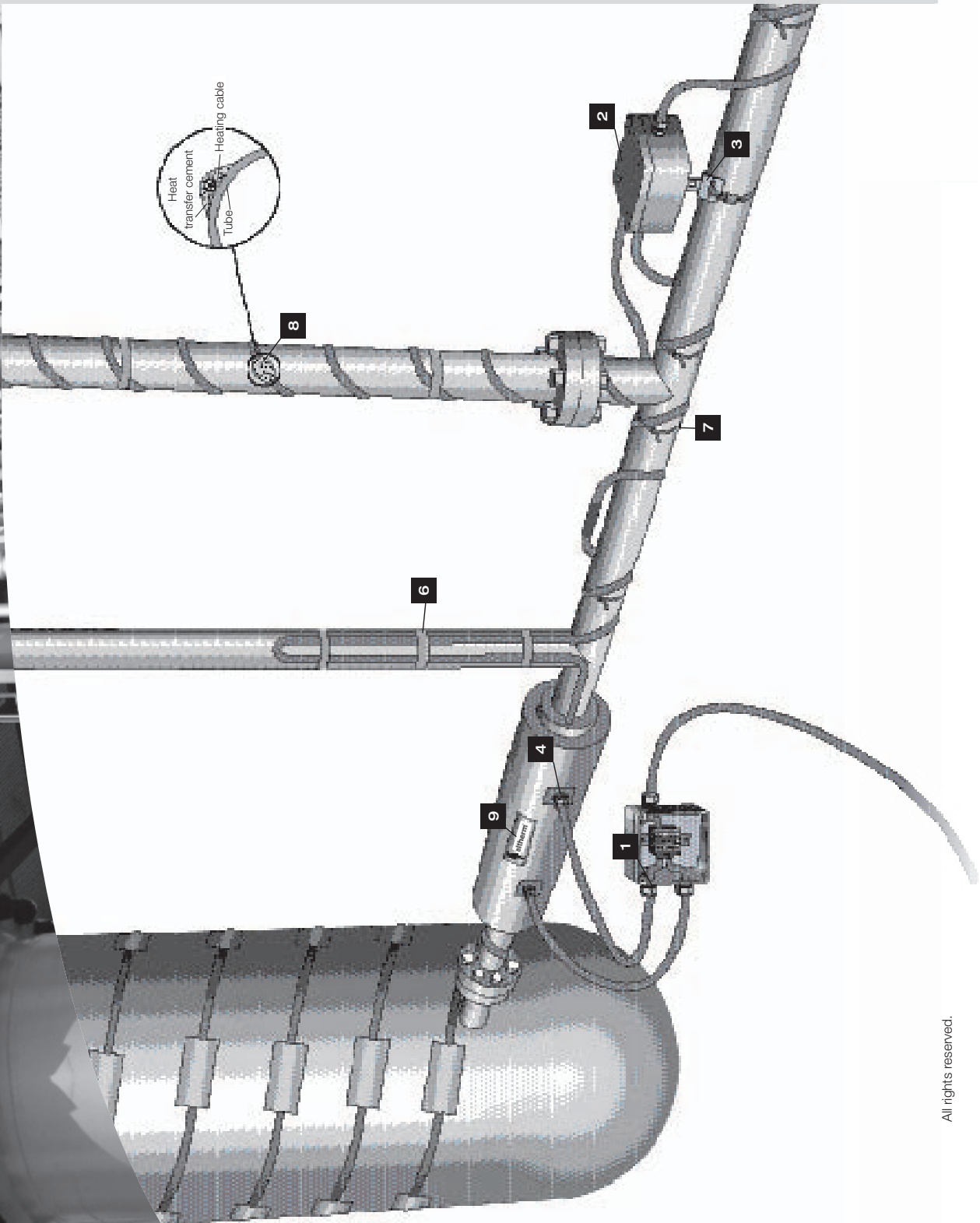


4 Insulation entry kits		
ELISD-1.12	Insulation entry kit for insulation entry dimensions 70 x 70 mm, insulated area 3.5...7 mm	0921011
ELISD-1.16	Insulation entry kit for insulation entry dimensions 70 x 70 mm, insulated area 4.5...10 mm	0921015
ELISD-1.20	Insulation entry kit for insulation entry dimensions 70 x 70 mm, insulated area 7...13 mm	0921019
ELISD-1.25	Insulation entry kit for insulation entry dimensions 70 x 70 mm, insulated area 9...17 mm	0921023
ELISD-P1	Insulation entry kit for heating cables ELP/PFA and ELP/PFA, insulation entry 70 x 70 mm	0921027
ELISD-P2	Insulation entry kit for heating cable ELP/Si, insulation entry 70 x 70 mm	0921031
5 Temperature Sensors/RTD's		
ELTF-PT.1	Pt100, 2 wire 5x50mm PVC 5m	0650001
ELTF-PT.1	Pt100 2-wire PVC 10m	0650013
ELTF-PT.3.1	3-Wire, 5x50 mmm, 250°C, 3m	0650002
ELTF-PT3.3	Pt100, 2 wire, 3m PTFE	0650003
ELTF-Te.4	Thermo element Type K 10.5m	0670005
ELTF-Te.4	Thermo element Type K 2m silicone lead	0670001
ELTF-PT.4	Sensor class A 2xPt100, 2x2 wire, 5m PTFE	QA40003
ELTF-PT.5	Sensor class 1/3B Pt100, 4 wire, 5m PTFE	QA40004
ELTF PTEEx-1	Sensor Pt100, 4 wire, cold lead 1.5m PTFE with SS prot.overjacket	QA40006
ELTF-PT.6	Sensor Pt100, +500°C,	QA80002
ELTF-PT.7	Pt100,2 wire., dim. 3x350mm, -400°C	QA70011
ELTF-PT3.3	Pt100, 2 wire, 10m PTFE	QA20002
ELTF-PT.3	Pt100, 2 wire 5x50mm PTFE 3m	0650003
ELTF-PTEEx.1	Pt100, 5 x 50 mm, 5 m PTFE II 2G Ex e II T6...T2; II 2D Ex tD A21 IP65 Tx	0X70001
ELTF-PTEEx.2,	Pt100 4 wire, 3 m PTFE II 2G Ex e II T6...T2; II 2D Ex tD A21 IP65 Tx	0X70002
ELTF-PTEEx.2	PT 100, Eexe, 4-core, 10 m PTFE cable II 2G Ex e II T6...T2; II 2D Ex tD A21 IP65 Tx	0X70010
6 Self-adhesive tapes and foils		
ELB-02	20 m adhesive glass fibre tape, 12 mm wide, maximum working temperature 140 °C	2486800125
ELB-02A	30 m adhesive glass fibre tape, 12 mm wide, maximum working temperature 180 °C	2486800126
ELB-03	50 m adhesive fabric tape, 12 mm wide, maximum working temperature 90 °C	2481800120
ELB-06C	50 m self-adhesive aluminium foil, 45 mm wide, reinforced grid, maximum working temperature 80 °C	2701900051
ELB-06E	Aluminium foil 50x536mm 150°C	2701900500
7 Mechanical fasteners and attachments		
ELB-16.10	Plastic strap retainers, maximum length 102 mm Working temperature	2796000001
ELB-16.20	Plastic strap retainers, maximum length 200 mm Working temperature	2796000002
ELB-16.36	Plastic strap retainers, maximum length 360 mm Working temperature	2796000003
ELB-11	Glass-cloth hose, 2 mm maximum Working temperature 450 °C, for attaching textile glass products	2446000201
ELB-21	Quartz-cloth hose, 3.5 mm maximum Working temperature 1000 °C, for attaching textile quartz products	2447000350
ELB-15.04	Clamping collar material SS AISI 304, clamping range 25/40 mm, maximum working temperature 450 °C	2723001025
ELB-15.06	Clamping collar material SS AISI 304, clamping range 40/60 mm, maximum working temperature 450 °C	2723001040
ELB-15.09	Clamping collar material SS AISI 304, clamping range 70/90 mm, maximum working temperature 450 °C	2723001070
ELB-15.11	Clamping collar material SS AISI 304, clamping range 90/110 mm, maximum working temperature 450 °C	2723001090
ELB-13V1	Pipe attachment band, 11 mm, material SS AISI 304, max. working temperature 450 °C	2723001010
ELB-13V2	Lock for ELB-13V1, material SS AISI 304, max. working temperature 450 °C	2723001011
ELB-12	Pre-punched metall fixing strip, grid 25 mm SS AISI 304 for the attachments of heating cables on receptacles	2723001005
ELB-09	Metallic gauze tape 50 mm x 10 m, material SS AISI 304	2793000050
ELB-12A	Stainless steel fixing strip 40 mm spacing	2723001251
ELB-13S1	Fixing band 11mm, galvanized steel, Roll=30 m	2720301010
ELB-13S2	Lock 1.4301, 100pcs	2720301011

<b>8</b> Heat transfer cement		
ELWZ 5	Heat transfer cement, 18.3 KG bucket, max. working temperature 1,000 °C	2979002951
<b>9</b> Warning labels		
EL-WS01D	German warning label "Elektrische Begleitheizung" *	2986900002
EL-WS01E	English warning label "Electric Heat Tracing" *	2986900012
* Also available in other languages upon request.		
<b>10</b> Heat resistant cables / temperature-resistant cold ends		
ELVB-L15	Cold cable 1.5 mm <sup>2</sup> for heating cable ELKM-AG	2045511150
ELVB-L25	Cold cable 2.5 mm <sup>2</sup> for heating cable ELKM-AG	2045511250
ELVB-L01	Ni conductor 1.5 mm <sup>2</sup> , maximum working temperature 450 °C, 550 °C transient	2216301500
ELVB-L02	Ni conductor 2.5 mm <sup>2</sup> , maximum working temperature 450 °C, 550 °C transient	2216302500



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# Content Controller, Limiter





Type	Modutronic ELT-GP1	Modutronic ELT-GP2	Modutronic ELT-GP3	ex-box DIS	ex-box LED	ex-box LIM
<b>Measuring range</b>	0...+100°C <input checked="" type="checkbox"/> 0...+200°C <input checked="" type="checkbox"/> 0...+400°C <input checked="" type="checkbox"/> 0...+800°C <input checked="" type="checkbox"/>	0...+100°C <input checked="" type="checkbox"/> 0...+200°C <input checked="" type="checkbox"/> 0...+400°C <input checked="" type="checkbox"/> 0...+800°C <input checked="" type="checkbox"/>	0...+400°C <input checked="" type="checkbox"/> 0...+800°C <input checked="" type="checkbox"/>	-40...+300°C	-40...+300°C	-40...+300°C
<b>Enclosure (WxHxD) mm</b>	175x125x75	45x118x137	213x185x117	170x130x140	170x130x140	170x130x140
<b>Standard rail</b>		<input checked="" type="checkbox"/>				
<b>Wall enclosure</b>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Supply Voltage</b>						
<b>12-24 V AC</b>						
<b>16-30V DC</b>						
<b>230 V AC</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Measurement</b>						
<b>PT 100</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Thermocouple Type J</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<b>Thermocouple Type K</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<b>Alarm indication</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Analogue output</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<b>Digital display</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Power consumption</b>	5 VA	5 VA	5 VA			
<b>IP protection class front</b>	IP 67	IP 20	IP 67	IP 65	IP 65	IP 65
<b>Switching capacity</b>	16 A	12 A	16 A	16 A	16 A	16 A
<b>For hazardous areas</b>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Page</b>	6	7	7	10	10	11

Standard

Option

Alternatives

								
EL-CTB (C)	ELTC 1-4	ELTC/H 1-4	ELTC 05	ELTC 11	ELTC 40	ELTC 60	ELHC *4	ELHKV *5
-	-	-	-	-	-99...+999°C	-99...+999°C	-	-
40x120x120	130x130x75	130x130x75	130x130x75	35x70x79	84x42x85	64x62 (D/mounting depth)	DIN: 45x75x120 enclosure: 130x130x75	295x458x129 ELHKV-E1-1
●	●	●	●	●			●	●
					○	○		
●	●	●	●	●	○	○	●	
Capillary								230/400 V AC
	●	●	●	●	●	●		
				○				
				○				
					○ *6			
					●	●		
	5 VA	5 VA	5 VA	3 VA	4 VA	4 VA		
IP 66	IP 66	IP 66	IP 66	IP 20	IP 65	IP 65	IP 50	IP 54
16 A	16 A	16 A	16 A	10 A	12 A	16 A	2 A	
●								
12	13	14	15	16	17	18	21	22

\*1 = Ice and snow sensor

\*3 = Ice and snow sensor

\*5 = Control panels

\*2 = Power output

\*4 = Heating circuit monitor

\*6 = only available for 40/5

Abbreviated marking	Description	Item number
<b>Modutronic Temperature Controller for non-Ex areas</b>		
ELT-GP-1.1	LED temperature controller for wall installation	0611011
ELT-GP-1.1	Temperature controller for wall installation	0611014
ELT-GP-1.2	LED temperature controller for wall installation	0611017
ELT-GP-1.2	Temperature controller for wall installation	0611020
ELT-GP-2	LED temperature controller for rail installation	0611032
ELT-GP-2	Temperature controller for rail installation	0611035
ELT-GP2-H	LED temperature controller for rail installation	0611038
ELT-GP-3	Temperature controller controller / limiter unit	0611041
<b>ELT Modutronic options</b>		
ELT-OAA	Option analog output for ELT-GP-1.1/1.2-(0-10V, 0-20mA) preinstalled or installation by customer	0611009
ELTG-OLR-1	Option 2nd load relay for ELT-GP-1.1/1.2 - (230 V/max. 16A)	0611002
ELTG-OLR-1	Option 2nd load relay for ELT-GP-1.1/1.2 - (230 V/max. 16A)	0611003
ELT-OMR-1	Opt. 2x signal relais K3 and K4 for ELT-GP-1, 2 and 3 - (230V/ max. 8A)	0611004
ELT-ANZ	Control and indication equipm. for ELT-GP-1.1/1.2/2 MODUTRONIC	0611010
<b>Ex-Box Temperature Controller for Ex areas</b>		
ex-box REG/DIS	Electr. controller w. display	0X60020
ex-box REG/LED	Electr. controller	0X60021
ex-box LIM/LED	Electr. limiter with LED	0X60023
ex-box LIM/DIS	Electr. limiter with display	0X60024
ex-control	Hand held controller pad for ex-box	0X60026
ex-connect	PC-Adapter for ex-box DIS	0X60028
<b>EL-CT</b>		
EL-CTB-30	Ex capillary thermostat -50 to +30°C	0X63030
EL-CTB-50	Ex capillary thermostat 0 to +50°C	0X63050
EL-CTB-200	Ex capillary thermostat 0 to +200°C	0X63200
EL-CTC-30	Ex capillary thermostat -50 bis +30°C	0X63031
EL-CTC-200	Ex capillary thermostat 0 to +200°C	0X63201
EL-CTC-500	Ex capillary thermostat +20 bis +500°C	0X63501
<b>ELTC Temperature Controller for non-Ex Areas</b>		
ELTC-05	Frostcontrol +3°C, 1 Relay	0610002
ELTC-05	Frostcontrol +3°C, 2 Relay	0610005
ELTC-1	-5...+15°C incl. Pt100, 1 Relay	0610008
ELTC-1	-5°...+15°C incl. Pt100, 2 Relay	0610014
ELTC-2	0...100°C incl. Pt100, 1 Relay	0610017
ELTC-2	0...100°C incl. Pt100, 2 Relay	0610026
ELTC-3	0...250°C incl. Pt100, 1 Relay	0610032
ELTC-3	0...250°C incl. Pt100, 2 Relay	0610035
ELTC-4	150...400°C excl. Pt100, 1 Relay	0610038
ELTC-4	150...400°C excl. Pt100, 2 Relay	0610041
ELTC-11/N	0...100°C for rail installation	0610070
ELTC-11/M	0...200°C for rail installation	0610071
ELTC-11/H	0...250°C for rail installation	0610072
ELTC-60/1	PT100 -60...+400°C 1S	0620601
ELTC-40/1	-80...+400°C incl. Pt100, 1S	0621140

Abbreviated marking	Description	Item number
<b>ELTC Temperature Controller for non-Ex Areas</b>		
ELTC-40/5	-80...+400°C incl. Pt100, 3S	0621141
ELTC-40/1.1	-80...+400°C incl. Pt100, 1S 12-24 V	0621142
ELTC-40/5.1	-80...+400°C incl. PT100, 1S 12-24V	0621143
ELTC-60/1.1	-50...+400°C incl. PT100, 1S 12-24V	TB50003
ELTC-11	-20°C - +40°C for rail installation	TB00010
<b>ELHKV Control panels for non-Ex Areas</b>		
ELHKV-E1-1	Compl. Control cabinet for ELSR f.1 heating/C.circuit	0640001
ELHKV-E1-2	Compl. Control cabinet for ELSR f. 2heatings/C. circuit	0640002
ELHKV-ST3	Compl. Control cab. f. ELSR f. 1 c. circ./3 heat. circuit	0640003
ELHKV-ST6	Compl. Control cab. f. ELSR f. 2 c. circ./6 heat. circuit	0640006
ELHKV-ST9	Compl. Control cab. f. ELSR f. 3 c. circ./9 heat. circuit	0640009
ELHKV-ST12	Compl. Control cab. f. ELSR f. 4 c. circ./12 heat. circuit	0640012
<b>Scada Control Panel Parts</b>		
	Power supply for scada master unit 220VAC/24VDC, 10A, DRP-240-24	2508000015
	Plant Visor Pro PC	4TD8000201
	Controller PCOE004580 with 4x 16A outgoing and communications cards for connection to Transmitter PCOE1Pt100	4TD8000202
	RTD Transmitter PCOEPt100, 4-20mA with 4xPT100 (RTD) incoming for connection to PCOE004580	4TD8000203
	Supernode Master unit SNS000AM0	4TD8000204
	RS485 BMS Karte, PCOS004850	4TD8000205
	Supernode Master unit plugset, SNSCON00M0	4TD8000206
	User Terminal PGD1000F00	4TD8000207
	User Terminal plugset, S90CONN000	4TD8000208
	Power Management System UMG 96S	ZZ80007
<b>Temperature Sensors/RTD's for non-Ex areas</b>		
ELTF-PT.1	Pt100, 2 wire 5x50mm PVC 5m	0650001
ELTF-PT.1	Pt100 2-wire PVC 10m	0650013
ELTF-PT.3.1	3-Wire, 5x50 mmm, 250°C, 3m	0650002
ELTF-PT3.3	Pt100, 2 wire, 3m PTFE	0650003
ELTF-Te.4	Thermo element Type K 10.5m	0670005
ELTF-Te.4	Thermo element Type K 2m silicone lead	0670001
ELTF-PT.4	Sensor class A 2xPt100, 2x2 wire, 5m PTFE	QA40003
ELTF-PT.5	Sensor class 1/3B Pt100, 4 wire, 5m PTFE	QA40004
ELTF PTEEx-1	Sensor Pt100, 4 wire, cold lead 1.5m PTFE with SS prot.overjacket	QA40006
ELTF-PT.6	Sensor Pt100, +500°C,	QA80002
ELTF-PT.7	Pt100,2 wire., dim. 3x350mm, -400°C	QA70011
ELTF-PT3.3	Pt100, 2 wire, 10m PTFE	QA20002
ELTF-PT.3	Pt100, 2 wire 5x50mm PTFE 3m	0650003
<b>Temperature Sensors/RTD's for Ex areas</b>		
ELTF-PTEEx.1	Pt100, 5 x 50 mm, 5 m PTFE II 2G Ex e II T6...T2; II 2D Ex tD A21 IP65 Tx	0X70001
ELTF-PTEEx.2	Pt100 4 wire, 3 m PTFE II 2G Ex e II T6...T2; II 2D Ex tD A21 IP65 Tx	0X70002
ELTF-PTEEx.2	PT 100, Eexe, 4-core, 10 m PTFE cable II 2G Ex e II T6...T2; II 2D Ex tD A21 IP65 Tx	0X70010

## Headquarters for Asia-Pacific Region



### **Eltherm Asia-Pacific Pte Ltd**

33, Ubi Ave 3, #08-11, Vertex, Tower B  
Singapore 408868

Tel : +65 6634-9100

Fax : +65 6634-9101

Website : [www.eltherm.com](http://www.eltherm.com)

Enquiry email : [apsales@eltherm.com](mailto:apsales@eltherm.com)

Contact your local sales representative

