

At a Glance

Applications



Freeze prevention



Temperature maintenance



Pipelines



Valves, pumps



Silos, vessels, tanks

- › Chemical-, Öl- & Gas industry
- › Tankcontainer, IBC's
- › Small components
- › Instrumentation
- › Many other industrial areas

Benefits

- › Highly flexible
- › High operation temperature
- › Small bending radius
- › High chemical resistance
- › Moisture proof

Approvals



- › System classification
III 2G Ex 60079-30-1 IIC T6..T2 Gb
Ta = -60°C to +60°C
II 2D Ex 60079-30-1 IIIC T85°C..
T300°C Db Ta = -60°C to +60°C
- › Certification
FM 16 ATEX 0037 X
CML 21 UKEX 3815 X

ELKM-AG up to 260 °C



1 Heating conductor	Heating conductor stranded or spirally wound
2 Insulation	Fluoropolymer
3 Protective braid	Nickel-plated copper
4 Outer jacket	Fluoropolymer

Checklist

Connection Sets

ELVB-AG	Connection set, shrink technology, for 1,5 mm ² cold lead	0X81150
Ex-Con 22/4 Si	Connection set for ELK-AG D=22 x 120 mm 4J	0X81140
Ex-CON 25/7	Connection set for ELK-AG D=25 x 105 mm 7J	0X81115
Ex-Con 36/4	Connection set for ELK-AG D=36 x 175 mm 4J	0X81120

Junction Boxes

ELAK-Ex-4.11	122 x 120 x 90 mm, Polyester, 1 heating cable, 1 cold lead	0X85411
ELAK-Ex-4.12	122 x 120 x 90 mm, Polyester, 2 heating cable, 1 cold lead.	0X85412
ELAK-Ex-4.13	122 x 120 x 90 mm, Polyester, 3 heating cable, 1 cold lead.	0X85413
ELAK-Ex-R1	Ø 150 mm, Height 125 mm, Polyamide star point, Ex e	0X80071

Temperature-resistant connection cable

ELKM-AG 11,70	Cold lead 1,5mm ²	01GA011E
ELKM-AG-N 7,20	Cold lead 2,5mm ²	01TA007E
ELKM-AG-N 11,70	Cold lead 1,5mm ²	01TA011E



Technical Information

Max. Operating temperature	260 °C
Max. Nominal Voltage	750 V
Max. output	30 W/m*
Min. Bending radius	2.5 x outer diameter
Min. Installation temperature	– 60 °C
Impact resistance	7 Joule
Heat conductor	stranded, spirally wound for nominal resistance > 8000 Ω/km

Heating cable data

Nominal resistance	Outer Ø approx.	Weight approx.	Temperature coefficient α	Art.-No.	Nominal resistance	Outer Ø approx.	Weight approx.	Temperature coefficient α	Art.-No.
[Ω/km]	[mm]	[g/m]	[x 10 ⁻³ / K]		[Ω/km]	[mm]	[g/m]	[x 10 ⁻³ / K]	
11,7	5,1	72	4,30	01GA011E	480	4,7	58	0,18	01GA148E
50	4,6	66	1,60	01GA050E	600	4,5	56	0,18	01GA160E
65	4,7	61	1,60	01GA065E	800	4,4	54	0,18	01GA180E
80	5,1	69	0,90	01GA080E	1000	4,5	56	0,04	01GA210E
100	4,9	65	0,90	01GA110E	1470	4,4	53	0,04	01GA214E
157	4,9	64	0,45	01GA115E	1750	4,4	53	0,04	01GA217E
180	4,9	56	0,90	01GA118E	1900	4,6	57	0,40	01GA219E
200	4,6	61	0,45	01GA120E	2900	4,4	54	0,40	01GA229E
260	4,7	57	0,45	01GA126E	4000	4,3	51	0,40	01GA240E
280	4,6	55	0,38	01GA128E	4700	4,2	50	0,15	01GA247E
340	4,5	54	0,45	01GA134E	6000	4,2	49	0,20	01GA260E
360	4,4	43	0,45	01GA136E	7000	4,2	48	0,15	01GA270E
430	4,4	61	0,45	01GA143E	8000	4,1	47	0,15	01GA280E

- Weight tolerances are possible for manufacturing reasons.
- Resistance tolerance: +/- 5 %..
- Other nominal resistances upon request.

Note

- * The output per meter of heating cable and the maximum possible operating temperatures depend on the respective application. For individual cases, we recommend that you contact our engineers – we will be pleased to advise you.
- For applications with fixed external diameter, please contact our engineers first.
- 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.