

At a Glance

Applications



Freeze prevention



Temperature maintenance



Pipelines



Valves, pumps



Silos, vessels, tanks

- › Filter heating
- › Hopper heating
- › Heating hoods
- › Automotive
- › Painting systems

Benefits

- › Highly flexible
- › High operation temperature
- › Small bending radius
- › High chemical resistance
- › Moisture proof
- › Resistant to steam purging

Approvals



- › Produced according to EN 60079-30-1:2017
- › System classification
 - II 2G Ex 60079-30-1 IIC Gb
 - II 2D Ex 60079-30-1 IIIC Db
- › System certification
 - EPS 19 ATEX 1 261 X
 - IECEx EPS 19.0115 X
 - CML 21 UKEX 3803 X
- › Cable certification
 - EPS 19 ATEX 1146 U
 - IECEx EPS 19.0070 U
 - CML 21 UKEX 3818 U

ELKM-AG-E

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

Power Connection Sets

ELVB30	Connection set for 1,5 mm ² Cold lead	0911056
ELVB30-1A	Connection set for 2,5 to 6 mm ² Cold lead	0911059
Ex-Con-22/4-Si	Connection and repair sleeve, Ø to 5,5 mm, 4 J, Ex e	0X81140

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

Temperature-resistant connection cable

ELKM-AG-E 4.40	Cold lead 4 mm ²	01AA004E
ELKM-AG-E 7.20	Cold lead 2.5 mm ²	01AA007E
ELKM-AG-E 11.70	Cold lead 1.5 mm ²	01AA011E



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	4 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]	
4,40 (Cu 4 mm ²)	5,5	83	4,30	01AA004E	328,00	3,7	45	0,45	01AA132E
7,20 (Cu 2,5 mm ²)	4,7	64	4,30	01AA007E	360,00	3,5	36	0,45	01AA136E
10,00	4,4	50	4,30	01AA010E	430,00	3,7	41	0,18	01AA143E
11,70 (Cu 1,5 mm ²)	4,3	52	4,30	01AA011E	480,00	3,7	40	0,18	01AA148E
15,00	4,1	48	4,30	01AA015E	600,00	3,6	38	0,18	01AA160E
25,00	4,0	44	3,00	01AA025E	800,00	3,5	35	0,18	01AA180E
31,50	4,3	54	1,60	01AA031E	1000,00	3,6	38	0,04	01AA210E
50,00	4,0	46	1,60	01AA050E	1470,00	3,4	35	0,04	01AA214E
65,00	3,8	42	1,60	01AA065E	1750,00	3,4	33	0,04	01AA217E
80,00	4,1	50	0,90	01AA080E	1900,00	3,1	39	0,40	01AA219E
100,00	4,0	46	0,90	01AA110E	2900,00	3,5	35	0,40	01AA229E
157,00	4,0	45	0,45	01AA115E	4000,00	3,4	33	0,40	01AA240E
180,00	3,7	39	0,90	01AA118E	4700,00	3,4	32	0,15	01AA247E
200,00	3,8	42	0,45	01AA120E	6000,00	3,4	32	0,20	01AA260E
260,00	3,7	40	0,45	01AA126E	7000,00	3,4	32	0,15	01AA270E
280,00	3,6	36	0,38	01AA128E	8000,00	3,4	31	0,15	01AA280E

- › 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.