eltherm®

ELKM-AG-E
up to 260 °C

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 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

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 mm² Cold lead	0911056
ELVB30-1A	Connection set for 2,5 to 6 mm² Cold lead	0911059
Ex-Con-22/4-Si	Verbindungsmuffe, 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 mm²	01AA004E
ELKM-AG-E 7.20	Cold lead 2.5 mm²	01AA007E
ELKM-AG-E 11.70	Cold lead 1.5 mm²	01AA011E

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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.
[Ω/km]	[mm]	[g/m]	[x 10^{-3} / K]	
4,40 (Cu 4 mm²)	5,5	83	4,30	01AA004E
7,20 (Cu 2,5 mm²)	4,7	64	4,30	01AA007E
10,00	4,4	50	4,30	01AA010E
11,70 (Cu 1,5 mm²)	4.3	52	4,30	01AA011E
15,00	4.1	48	4,30	01AA015E
25,00	4,0	44	3,00	01AA025E
31,50	4,3	54	1,60	01AA031E
50,00	4,0	46	1,60	01AA050E
65,00	3,8	42	1,60	01AA065E
80,00	4,1	50	0,90	01AA080E
100,00	4,0	46	0,90	01AA110E
157,00	4,0	45	0,45	01AA115E
180,00	3,7	39	0,90	01AA118E
200,00	3,8	42	0,45	01AA120E
260,00	3,7	40	0,45	01AA126E
280,00	3,6	36	0,38	01AA128E

Nominal resistance	Outer Ø approx.	Weight approx.	Temperature coefficient α	Art.-No.
[Ω/km]	[mm]	[g/m]	[x 10^{-3} / K]	
328,00	3,7	45	0,45	01AA132E
360,00	3,5	36	0,45	01AA136E
430,00	3,7	41	0,18	01AA143E
480,00	3,7	40	0,18	01AA148E
600,00	3,6	38	0,18	01AA160E
800,00	3,5	35	0,18	01AA180E
1000,00	3,6	38	0,04	01AA210E
1470,00	3,4	35	0,04	01AA214E
1750,00	3,4	33	0,04	01AA217E
1900,00	3,1	39	0,40	01AA219E
2900,00	3,5	35	0,40	01AA229E
4000,00	3,4	33	0,40	01AA240E
4700,00	3,4	32	0,15	01AA247E
6000,00	3,4	32	0,20	01AA260E
7000,00	3,4	32	0,15	01AA270E
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.