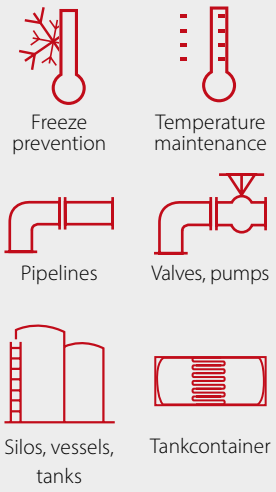
eltherm®

ELKM-AG-N
up to 260 °C

At a Glance

Applications



- Filter heating
- Hopper heating
- Parabolic antenna heaters
- Automotive

Benefits

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

Approvals

- System classification
  II 2G Ex 60079-30-1 IIC Gb
  II 2D Ex 60079-30-1 IIIC Db
- Certification
  EPS 12 ATEX 1466 U
  IECEx EPS 12.0023 U
  CML 21 UKEX 3804 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

ELVB-AG	Connection set, heat shrink, for 1,5 mm² cold lead	0X81150
Ex-Con 22/4 Si	Connection set for ELK-AG Ø = 22 x 120 mm 4J	0X81140
Ex-CON 25/7	Connection set for ELK-AG Ø = 25 x 105 mm 7J	0X81115
Ex-Con 36/4	Connection set for ELK-AG Ø = 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 1,5mm²	01GA011E
ELKM-AG-N 7,20	Cold lead 2,5mm²	01TA007E
ELKM-AG-N 11,70	Cold lead 1,5mm²	01TA011E

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Technical Information

Max. Operating temperature	260 °C
Max. Nominal Voltage	550 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]	
1.95 (Cu 10 mm²)	8.1	166	4.30	01TA002E
2.90 (Cu 6 mm²)	6.8	119	4.30	01TA003E
4.40 (Cu 4 mm²)	6.1	96	4.30	01TA004E
7.20 (Cu 2.5 mm²)	5.1	64	4.30	01TA007E
10.00	4.8	59	4.30	01TA010E
11.70 (Cu 1.5 mm²)	4.7	57	4.30	01TA011E
15.00	4.5	50	4.30	01TA015E
25.00	4.4	48	3.00	01TA025E
31.50	4.7	56	1.60	01TA031E
50.00	4.4	49	1.60	01TA050E
65.00	4.2	46	1.60	01TA065E
80.00	4.5	42	0.90	01TA080E
100.00	4.4	50	0.90	01TA110E
157.00	4.4	46	0.45	01TA115E
180.00	4.1	42	0.90	01TA118E
200.00	4.2	38	0.45	01TA120E
260.00	4.1	42	0.45	01TA126E

Nominal resistance	Outer Ø approx.	Weight approx.	Temperature coefficient α	Art.-No.
[Ω/km]	[mm]	[g/m]	[x 10^{-3} / K]	
280.00	4.0	39	0.38	01TA128E
328.00	4.1	40.1	0.45	01TA132E
360.00	3.9	40	0.45	01TA136E
430.00	4.1	43	0.18	01TA143E
480.00	4.1	44	0.18	01TA148E
600.00	4.0	40	0.18	01TA160E
800.00	3.9	41	0.18	01TA180E
1000.00	4.0	43	0.04	01TA210E
1470.00	3.8	40	0.04	01TA214E
1750.00	3.8	37	0.04	01TA217E
1900.00	3.5	41	0.40	01TA219E
2900.00	3.9	41	0.40	01TA229E
4000.00	3.8	37	0.40	01TA240E
4700.00	3.8	35	0.15	01TA247E
6000.00	3.8	34	0.20	01TA260E
7000.00	3.8	33	0.15	01TA270E
8000.00	3.8	36	0.15	01TA280E

- 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.