

At a Glance

Applications



Freeze prevention



Temperature maintenance



Pipelines



Valves, pumps



Silos, vessels, tanks



Tank container

- › 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



ELKM-AG-L

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

Junction Boxes

ELAK-2	104 x 104 x 70 mm, Polycarbonate, IP 66	0920030
ELAK-5	122 x 120 x 90 mm, Polyester, IP 66, up to 2 heating cables,	0920013
ELAK-R-1	Ø 150 mm, Height 125 mm, Thermoplastic, for star point	0920051
ELAK-R-2	Ø 150 mm, Height 125 mm, Thermoplastic	0920052

Temperature-resistant connection cable

ELKM-AG-L 11,7	Cold lead 1,5mm ²	01TT011E
ELKM-AG-L 7,2	Cold lead 2,5mm ²	01TT007E



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]	
1.95 (Cu 10 mm ²)	7,7	156	4.30	01TT002E	280.00	3,4	38	0.38	01TT128E
2.90 (Cu 6 mm ²)	6,4	110	4.30	01TT003E	328.00	3,78	35,2	0.45	01TT132E
4.40 (Cu 4 mm ²)	5,6	85	4.30	01TT004E	360.00	3,3	33	0.45	01TT136E
7.20 (Cu 2.5 mm ²)	4,5	53	4.30	01TT007E	430.00	3,5	38	0.18	01TT143E
10.00	4,2	51	4.30	01TT010E	480.00	3,5	39	0.18	01TT148E
11.70 (Cu 1.5 mm ²)	4,1	48	4.30	01TT011E	600.00	3,4	35	0.18	01TT160E
15.00	3,9	44	4.30	01TT015E	800.00	3,3	34	0.18	01TT180E
25.00	3,8	43	3.00	01TT025E	1000.00	3,4	35	0.04	01TT210E
31.50	4,1	45	1.60	01TT031E	1470.00	3,2	40	0.04	01TT214E
50.00	3,8	43	1.60	01TT050E	1750.00	3,2	38	0.04	01TT217E
65.00	3,6	42	1.60	01TT065E	1900.00	3,5	39	0.40	01TT219E
80.00	3,9	55	0.90	01TT080E	2900.00	3,3	32	0.40	01TT229E
100.00	3,8	53	0.90	01TT110E	4000.00	3,2	31	0.40	01TT240E
157.00	3,8	40	0.45	01TT115E	4700.00	3,2	31	0.15	01TT247E
180.00	3,5	38	0.90	01TT118E	6000.00	3,2	38	0.20	01TT260E
200.00	3,6	39	0.45	01TT120E	7000.00	3,2	36	0.15	01TT270E
260.00	3,5	38	0.45	01TT126E	8000.00	3,2	33	0.15	01TT280E

- 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.