

At a Glance

Applications



Freeze prevention



Temperature maintenance



Pipelines



Valves, pumps



Silos, vessels, tanks

- › Chemical-, Oil- & Gas industry
- › Tank container, IBC's
- › Small components
- › Instrumentation
- › Many other industrial areas

Benefits

- › Usage rating -WS (outdoors, wet areas)
- › Highly flexible
- › High operation temperature
- › Small bending radius
- › High chemical resistance
- › Moisture proof

Approvals



- › Classification
Zone 1 AEx 60079-30-1 IIC T6...T2 / Ex 60079-30-1 IIC T6...T2 Gb
Zone 21 AEx 60079-30-1 IIIC T85°C...T300°C Db / Ex 60079-30-1 IIIC T85°C...T300°C Db
Class I Div 2 Group A,B,C,D
Class II Div 2 Group E,F,G Class III
- › Certification
FM16NUS0004
FM16US0124X
FM16NCA0003
FM16CA0069X
- › Standards
IEC/IEEE 60079-30-1
IEEE 515/CSA 22.2 130-16

ELKM-AG-NA

up to 482 °F / 250 °C



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

Checklist

Connection Sets

ELVB-AG-NA	Splice-kit for ELK-AG-NA; max. 750V, max. 10 W/ft, max. 482°F / 250°C Zone 1 AEx 60079-30-1 IIC T6...T2 / Ex 60079-30-1 IIC T6...T2 Gb Zone 21 AEx 60079-30-1 IIIC T85°C...T300°C Db / Ex 60079-30-1 IIC T85°C...T300°C Db Class I Div 2 Grp A,B,C,D Class II Div 2 Grp E,F,G Class III	09CAAG0
ELVB-NB 1/2	Connection kit for ELK-AG-NA NEC/CEC 1/2" max. 750V, max. 40A, max. 212°F / 100°C Zone 1 AEx db eb IIC Gb / Ex db eb IIC Gb Zone 21 AEx tb IIIC Db / Ex tb IIIC Db Class I Div 2 Grp A,B,C,D Class II Div 2 Grp E,F,G Class III	09CAAG1
ELVB-NB M16	Connection kit for ELK-AG-NA NEC/CEC M16x1,5 max. 750V, max. 40A, max. 212°F / 100°C Zone 1 AEx db eb IIC Gb / Ex db eb IIC Gb Zone 21 AEx tb IIIC Db / Ex tb IIIC Db Class I Div 2 Grp A,B,C,D Class II Div 2 Grp E,F,G Class III	09CAAG2
ELVB-NA 3/8	Connection kit for ELK-AG-NA NEC/CEC 3/8" max. 750V, max. 40A, max. 203 °F / 95 °C, Trace heater Set –WS	09CAAG3
ELVB-NA M12	Connection kit for ELK-AG-NA NEC/CEC M12x1,5; max. 750V, max. 40A, max. 203 °F / 95 °C, Trace heater Set –WS	09CAAG4

Temperature-resistant connection cable

ELKM-AG-NA 11,70	Cold lead 1,5mm ²	01NA011E
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Technical Information

Max. Operating temperature	482 °F / 250 °C
Max. Nominal voltage	750 V
Max. output	9 W/ft / 30 W/m*
Min. Bending radius	0.4" / 10 mm
Min. Installation temperature	- 76 °F / - 60 °C
Heat conductor	stranded
Usage rating (Canada)	-WS (outdoors, wet areas)

Order Information

Nominal resistance		Outer Ø approx.		Weight approx.		Temperature coefficient α	Item no.
[Ω/mi]	[Ω/km]	[Inch]	[mm]	[g/ft]	[g/m]	[x 10 ⁻³ / K]	
18.83	11.7	0.232	5.9	23.16	76	4.30	01NA011E
80.47	50	0.213	5.4	21.00	69	1.60	01NA050E
106.61	65	0.217	5.5	19.50	64	1.60	01NA065E
128.75	80	0.232	5.9	22.25	73	0.90	01NA080E
160.93	100	0.224	5.7	21.00	69	0.90	01NA110E
193.121	120	0.213	5.4	21.00	69	0.06	01NA112E
225.308	140	0.217	5.5	19.50	64	0.45	01NA114E
252.67	157	0.224	5.7	20.72	68	0.45	01NA115E
289.68	180	0.224	5.7	18.29	60	0.90	01NA118E
321.87	200	0.213	5.4	19.50	64	0.45	01NA120E
370.149	230	0.209	5.3	17.37	57	0.45	01NA123E
418.43	260	0.217	5.5	18.59	61	0.45	01NA126E
450.62	280	0.213	5.4	17.68	58	0.38	01NA128E
527.87	328	0.200	5.1	16.15	53	0.45	01NA132E
547.18	340	0.208	5.3	17.37	57	0.72	01NA134E
579.36	360	0.205	5.2	19.20	63	0.45	01NA136E
692.02	430	0.217	5.5	18.59	61	0.45	01NA143E
772.49	480	0.213	5.4	18.59	61	0.18	01NA148E
965.61	600	0.208	5.3	17.98	59	0.18	01NA160E

Order Information

Nominal resistance		Outer Ø approx.		Weight approx.		Temperature coefficient α	Item no.
[Ω/mile]	[Ω/km]	[Inch]	[mm]	[g/ft]	[g/m]	[x 10 ⁻³ / K]	
1094.35	680	0.199	5.05	15.85	52	0.18	01NA168E
1287.48	800	0.205	5.2	17.06	56	0.18	01NA180E
1609.34	1000	0.208	5.3	17.98	59	0.04	01NA210E
2011.68	1250	0.197	5.0	15.54	51	0.04	01NA212E
2365.74	1470	0.205	5.2	16.76	55	0.04	01NA214E
2816.35	1750	0.205	5.2	16.76	55	0.04	01NA217E
3057.76	1900	0.213	5.4	18.29	60	0.40	01NA219E
4667.10	2900	0.205	5.2	17.06	56	0.40	01NA229E
6437.38	4000	0.200	5.1	16.15	53	0.40	01NA240E
7563.92	4700	0.197	5.0	15.85	52	0.15	01NA247E
9656.06	6000	0.197	5.0	15.54	51	0.20	01NA260E
11265.41	7000	0.197	5.0	15.24	50	0.15	01NA270E
12874.75	8000	0.193	4.9	14.94	49	0.15	01NA280E

- *The output per feet / 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 - or use the calculation tool „eltherm designer“, which can be downloaded from our [website](#).
- For applications with fixed external diameter, please contact our engineers first.
- Cables shall neither intersect nor contact.
- Provide protection by means of circuit breaker RCD 30 mA.
- Weight tolerances are possible for manufacturing reasons.
- Resistance tolerance +/- 5 %.
- Other nominal resistances upon request