ELKM-AG-NA

Fluoropolymer Insulated Series Resistance Heating Cable

eltherm® innovations in heat tracing

Features

Outer jacket
- Fluoropolymer.

Bus wire
- Nickel plated copper.

Maximum operating temperature
- 250 °C (482 °F).

Nominal voltage, maximum
- 0-750V, AC and DC voltages applicable.

Output, max.
- 30 W/m.

Note: The output per unit length of the heating cable and the maximum possible operating temperatures depend on the respective application. Please contact the factory for application specific requirements and calculations.

Bending radius, minimum
- 10 mm (0.4 in.).

Installation temperature, minimum
- -60 °C (-76 °F).

Classification
ELK-AG-NA:
- Industrial and commercial applications, Canada USA

ELK-AG-NB:
- Class I Division 2 Group A, B, C, D
- Class II Division 1 Group E, F, G
- Class III Division 1
- Class I Zone 1 AEx de IIC T6...T2 / Ex de IIC
- T6...T2 Gb

ELK-AG-NC:
- Class I Division 1 Group A, B, C, D

Standards
- FM16NUS0004
- FM16US0124X
- FM16NC0003
- FM16CA0069X

Certification
- IEC/IEEE 60070-30-1, IEEE 515
- CSA 22.2 130-16

Rating
- Wet rated, for outdoor use (WS).

Warranty
- 1-year basic warranty on the heating cable.

Application
- Product line heat tracing (crude oil, natural gas, caustic soda, waste water and product transfer lines), tank and vessel heat tracing, pipe, valve and pump heating, tank container heating, IBC's, storage facility heating, viscosity control and instrumentation heat tracing.

Made to order product, to obtain a quote please contact factory.

FM C US APPROVED

Cable Specifications

Nominal resistance (Ω/ft.)	Outer diameter approx. in.	Outer diameter approx. mm	Weight approx. lb/ft.	Temperature coefficient (x 10^{-3} / K)
0.0036 (Cu 1.5 mm^2)	0.23	5.9	0.0511	4.30
0.0152	0.21	5.4	0.0461	1.60
0.0198	0.22	5.5	0.0429	1.60
0.0244	0.23	5.9	0.0491	0.90
0.0305	0.22	5.7	0.0461	0.90
0.0479	0.22	5.7	0.0459	0.45
0.0549	0.21	5.4	0.0404	0.90
0.0610	0.22	5.5	0.0429	0.45
0.0792	0.21	5.4	0.0408	0.45
0.0853	0.21	5.3	0.0388	0.38
0.1036	0.21	5.3	0.0386	0.45
0.1097	0.20	5.2	0.0382	0.45
0.1311	0.23	5.5	0.0422	0.18
0.1463	0.22	5.4	0.0412	0.18
0.1829	0.21	5.3	0.0394	0.18
0.2438	0.20	5.2	0.0375	0.18
0.3048	0.21	5.3	0.0394	0.04
0.4481	0.20	5.2	0.0370	0.04
0.5334	0.20	5.2	0.0368	0.04
0.5791	0.22	5.4	0.0402	0.40
0.8839	0.20	5.2	0.0374	0.40
1.2192	0.20	5.1	0.0356	0.40
1.4326	0.20	5.0	0.0349	0.15
1.8288	0.20	5.0	0.0343	0.20
2.1336	0.19	5.0	0.0336	0.15
2.4384	0.19	4.9	0.0332	0.15

Weight tolerances are possible for manufacturing reasons.

Resistance tolerance: +/- 5 %.

For applications with fixed external diameter, please contact the factory.

Cables shall neither intersect nor contact.

Ground fault protection device 30 mA required for each circuit.

Options

Product #	Environment	Description
EL-HAZELECT-AG	NC	Connection kit 1/2" NPT Class I Div 1 and 2 Group ABCD, Class II Div 1 and 2 Groups EFG, Class III , Class I Zone 1 Group IIC
ELVB-AG-NA-NB-NC	NA/NB/NC	Splice kit for ELKM-AG-NA all environments (set of 2)
ELVB-NA-38	NA	Cable gland connection kit for ELKM-AG-NA NEC/CEC 3/8" NPT non-hazardous area
ELVB-NA-M12	NA	Cable gland connection kit for ELKM-AG-NA NEC/CEC M12 x 1.5 non-hazardous area
ELVB-NB-12	NB	Cable gland connection kit for ELKM-AG-NA NEC/CEC 1/2" NPT hazardous area
ELVB-NB-M16	NB	Cable gland connection kit for ELKM-AG-NA NEC/CEC M16 x 1.5 hazardous area

Made to order, please contact factory for design assistance.

ELK-AG-NA may be supplied on spools and field terminated, provided the following conditions are met:

Heating circuit design to be carried out or approved by the factory.

Only Eltherm supplied and certified termination kits may be used.

Heating circuit installation and start-up to be performed by qualified personnel only.

Eltherm product and approval markings to be applied to product.

Product description code (example)

Product # **ELKM-AG-NA-00549**

Product Family

ELKM-AG-**NA**: Normal Environment

Nominal resistance (without the dot " . ")

Made to order product, to obtain a quote please contact factory.

For hazardous area

ELKM-AG-NA cable is approved for all environments.

For hazardous area applications please refer to the Options table to select the proper termination kit.

NB: Class 1 Division 2
NC: Class 1 Division 1