



Fluoropolymer-insulated Heating Cable

Polymer insulated heating cables offer the most reliable and flexible means of providing freeze protection and temperature maintenance in highly corrosive environments and high temperature applications. eltherm's series ELK-AG-NA heating cable offer unique features, including Class I Division 1 hazardous area approval.

Features and Benefits:

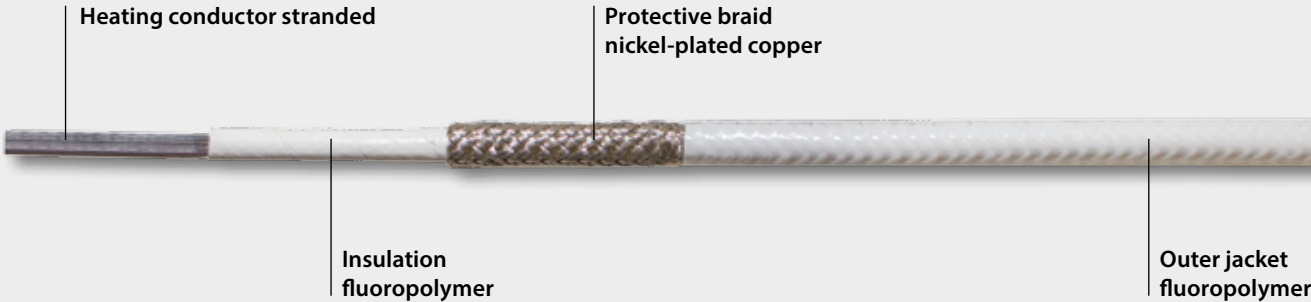
- Class I Division 1 hazardous area rating
- Maximum chemical and mechanical resistance
- High maintain temperature
- Usage rating -WS (outdoors, wet areas)
- Highly flexible, may be applied to various shapes and small spaces
- Easy Field Termination
- Large Variety of Resistances
- Longer Circuit Lengths

Application examples:

- 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
- Instrumentation heat tracing



ELK-AG-NA to 482 °F / 250 °C



Technical Details

ELK-AG-NX to 482 °F / 250 °C

Data

■ Insulation	Fluoropolymer
■ Protective braid	Nickel-plated copper
■ Outer jacket	Fluoropolymer
■ Nominal voltage max.	0-750 V, AC and DC voltages applicable
■ Output, max.	30 W/m*
■ Operating temp., max.	482 °F / 250 °C
■ Bending radius, min.	0.4' / 10 mm
■ Installation temp., min.	-76 °F / -60 °C
■ Heat conductor	Stranded
■ Usage rating (Canada)	-WS

Standards and Approvals

■ Manufactured according to	IEC/IEEE 60070-30-1, IEEE 515 CSA 22.2 130-16
■ Certificate No.	FM16NUS0004 FM16US0124X FM16NC0003 FM16CA0069X
■ Classification	ELK-AG-NA: Industrial and commercial applications, Canada USA ELK-AG-NB: Class I Div 2 Group A, B, C, D; Class II Div 1 Group E, F, G; Class III Div 1; Class I Zone 1 AEx de IIC T6...T2 / Ex de IIC T6...T2 Gb ELK-AG-NC: Class I Div 1 Group A, B, C, D

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

System Components

ELK-AG-NX heat tracing system includes the following components:

- Fluoropolymer insulated trace heater ELKM-AG-NA
- Splice kit ELVB-AG-NA
- Connection kit ELVB-NA 3/8, -NA M12, -NB 1/2, -NB M16 and EL-HAZELECT-AG, ELVB-NA Series Power Connection Kits, pre-fabricated or assembled on site
- Fluoropolymer insulated cold lead ELKM-AG-NA 0.0117

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 eltherm.
- 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.



Nominal resistance (Ω/ft)	Outer diameter approx. (inch) / (mm)	Weight approx. (lbs/ft)	Temperature coefficient (x 10 ⁻³ / K)	Art. No.
0.0036 (Cu 1.5 mm ²)	0.23 / 5.9	0.0511	4.30	01NA011E
0.0152	0.21 / 5.4	0.0461	1.60	01NA050E
0.0198	0.22 / 5.5	0.0429	1.60	01nA065E
0.0244	0.23 / 5.9	0.0491	0.90	01NA080E
0.0305	0.22 / 5.7	0.0461	0.90	01NA110E
0.0479	0.22 / 5.7	0.0459	0.45	01NA115E
0.0549	0.21 / 5.4	0.0404	0.90	01NA118E
0.0610	0.22 / 5.5	0.0429	0.45	01NA120E
0.0792	0.21 / 5.4	0.0408	0.45	01NA126E
0.0853	0.21 / 5.3	0.0388	0.38	01NA128E
0.1036	0.21 / 5.3	0.0386	0.45	01NA134E
0.1097	0.20 / 5.2	0.0382	0.45	01NA136E
0.1311	0.23 / 5.5	0.0422	0.18	01NA143E

Nominal resistance (Ω/ft)	Outer diameter approx. (inch) / (mm)	Weight approx. (lbs/ft)	Temperature coefficient (x 10 ⁻³ / K)	Art. No.
0.1463	0.22 / 5.4	0.0412	0.18	01NA148E
0.1829	0.21 / 5.3	0.0394	0.18	01NA160E
0.2438	0.20 / 5.2	0.0375	0.18	01NA180E
0.3048	0.21 / 5.3	0.0394	0.04	01NA210E
0.4481	0.20 / 5.2	0.0370	0.04	01NA214E
0.5334	0.20 / 5.2	0.0368	0.04	01NA217E
0.5791	0.22 / 5.4	0.0402	0.40	01NA219E
0.8839	0.20 / 5.2	0.0374	0.40	01NA229E
1.2192	0.20 / 5.1	0.0356	0.40	01NA240E
1.4326	0.20 / 5.0	0.0349	0.15	01NA247E
1.8288	0.20 / 5.0	0.0343	0.20	01NA260E
2.1336	0.19 / 5.0	0.0336	0.15	01NA270E
2.4384	0.19 / 4.9	0.0332	0.15	01NA280E






Weight tolerances are possible for manufacturing reasons.
Resistance tolerance: +/- 5 %.

For applications with fixed external diameter, please contact our engineers first.

Cables shall neither intersect nor contact.

Ground fault protection device 30 mA required for each circuit.

Accessories

Designation	Description	Art. No.
	Connection Kits	
 ELVB-AG-NA Splice Kit for ELK-AG-Nx	max. 750V, max. 40A, max. 482°F / 250°C Class I Div 1 Grp A, B, C, D Class II Div 1 Grp E, F, G Class III Class I Zone 1, AEx e IIC T6...T2 / Ex e IIC T6...T2 Gb Use with eltherm ELKM-AG-NA trace heaters only.	09CAAG0
 ELVB-NB 1/2 Connection Kit for ELK-AG-NB NEC/CEC Ex 1/2" NPT	max. 750V, max. 40A, max. 212 °F / 100 °C Class I Div. 2 Group A, B, C, D Class II Div. 1 Group E, F, G Class III Class I Zone 1 AEx de IIC T6...T2 / Ex de IIC T6...T2 Gb Use with eltherm ELKM-AG-NA trace heaters only. Refer to installation instructions. Trace heater Set –WS	09CAAG1
 ELVB-NB M16 Connection Kit for ELK-AG-NB NEC/CEC Ex M16x1.5	max. 750V, max. 40A, max. 212 °F / 100 °C Class I Div. 2 Group A, B, C, D Class II Div. 1 Group E, F, G Class III Class I Zone 1 AEx de IIC T6...T2 / Ex de IIC T6...T2 Gb Use with eltherm ELKM-AG-NA trace heaters only. Refer to installation instructions. Trace heater Set –WS	09CAAG2
ELVB-NA 3/8 Connection Kit for ELK-AG-NA CEC/NEC 3/8" NPT	max. 750V, max. 40A, max. 203 °F / 95 °C Use with eltherm ELKM-AG-NA trace heaters only. Refer to installation instructions. 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 Use with eltherm ELKM-AG-NA trace heaters only. Refer to installation instructions. Trace heater Set –WS	09CAAG4
 EL-HAZELECT-AG Connection kit 1/2" for ELKM-AG-NA	max. 750V, max. 40A, max. 482°F / 250°C Class I, Div. 1&2, Groups A, B, C, D Class II, Div. 1&2, Groups E, F, G Class III Class I, Zone 1, Group IIC Use with eltherm ELKM-AG-NA trace heaters only. Refer to installation instructions. Trace heater Set -WS.	09CA050

Please contact eltherm for a complete list of connection assemblies and accessories.

eltherm[®]
innovations in heat tracing



eltherm Canada Inc.

1440 Graham's Lane, Unit 5
Burlington Ontario L7S 1W3
Canada

Phone +1 (289) 812-6631
Fax +1 (844) 325-6750
E-Mail info@eltherm.ca

www.eltherm.com