

# SR-NA

## All Purpose Self-Regulating Heating Cable SR-NA

eltherm®  
innovations in heat tracing 

### Features

#### Outer jacket

- Thermoplastic (AO).

#### Bus wire

- Nickel plated copper.

#### Minimum start-up temperature

- -30 °C (-22 °F).

#### Maximum operating temperature (power on)

- 60 °C (140 °F).

#### Maximum operating temperature (power off)

- 80 °C (176 °F).

#### Nominal voltage

- 120V, 240/208V.

#### Bending radius, minimum

- 25 mm (1 in.).

#### Installation temperature, minimum

- -45 °C (-49 °F).

#### Classification

- II 2G Ex e IIC T6 Gb II 2D Ex tb IIIC

- T 80 °C Db

- Class I, Division 2, Groups A, B, C, D

- Class II, Division 2, Groups E, F, G

- Class III, T6

- Class I, Zone 1, AEx / Exe II, T6

- Class 1, Division 1, Groups B, C, D (Contact manufacturer)

#### Standards

- CSA C22.2.130.03; -WS

- CAN/CSA 60079-7:12, 60079-0-11

- ANSI/IEEE 515, 515

#### Certification

- IECEx EPS 12.0006U

- 12ATEX1431U

- CSA C US 2547790

#### Rating

- Wet rated, for outdoor use (WS).

#### Warranty

- 1-year basic warranty on the heating cable.

#### Application

- Freeze protection, heat tracing instrumentation, pipes, vessel and tanks, chemical and petrochemical industries, food processing, automotive, roof and gutter, sprinkler systems.





## Models

Nominal output W/ft.	Product # 120V <sup>1,3</sup>	Nominal output W/ft.	Product # 240V <sup>1,2,3</sup>	Cable dimension approx. (mm)
5	ELSR-NA-5-1-AO	6	ELSR-NA-6-2-AO	13.8 x 5.6

<sup>1</sup> AO Aluminum foil and a thermoplastic outer jacket.

<sup>2</sup> For operations at 208V, please consult Eltherm® correction factors/multipliers.

<sup>3</sup> When ordering, the quantity on the purchase order is equal to the length in feet of the cable required.  
E.g.: To order a 500 ft. cable, write 500 for quantity with product code.

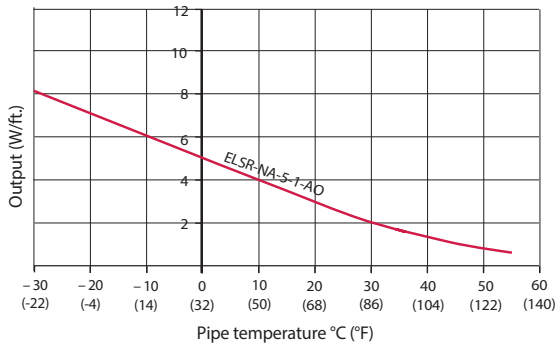
## Heating circuit length

Start-up temperature	120V	
	Circuit breaker capacity (A)	Maximum heating circuit (ft.) for ELSR-NA-5-1-AO
10 °C (50 °F)	10	125
	15	187
	20	249
	25	312
	30	374
	35	436
0 °C (32 °F)	10	112
	15	168
	20	224
	25	280
	30	336
	35	392
-10 °C (14 °F)	10	102
	15	153
	20	204
	25	255
	30	306
	35	357
-30 °C (-22 °F)	10	87
	15	130
	20	173
	25	217
	30	260
	35	303

Start-up temperature	240V	
	Circuit breaker capacity (A)	Maximum heating circuit (ft.) for ELSR-NA-6-2-AO
10 °C (50 °F)	10	170
	15	255
	20	340
	25	425
	30	510
	35	595
0 °C (32 °F)	10	154
	15	231
	20	308
	25	385
	30	462
	35	539
-10 °C (14 °F)	10	141
	15	211
	20	281
	25	352
	30	422
	35	492
-30 °C (-22 °F)	10	120
	15	180
	20	240
	25	300
	30	360
	35	420

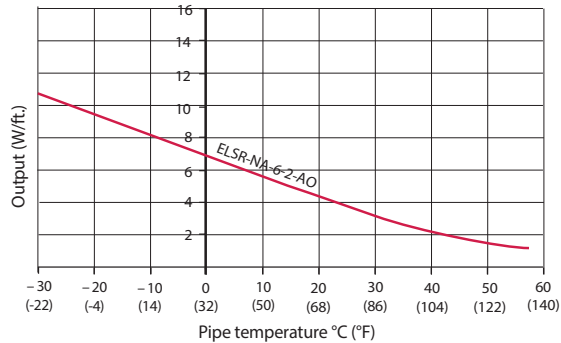
### ELSR-NA-5-1-AO output

(on insulated metallic pipes)



### ELSR-NA-6-2-AO output

(on insulated metallic pipes)



### Eltherm® correction factors/multipliers for operation of heating cables in 208V

To calculate the corrected power output for operation in 208V, multiply the published output at 240V (in W/ft.) by the nominal output factor provided for the applicable heating cable type.

To calculate maximum heating circuit lengths for operation in 208V (tables provided in product data sheets), multiply the published max. heating circuit length at 240V provided for the applicable heating cable type.

Heating cable correction factors/ Multipliers	Nominal output 208V vs. 240V	Heating circuit length 208V vs. 240V
ELSR-NA-X-2	0.88	0.93

### Maximum heating circuit on the following conditions:

- 120/240 Voltage
- MCB type QO (100% utilization)
- Voltage drop max. 10%
- Single cable fed 1 end

### Accessories

See Accessories section.