

SR-MA-BF

MICRO SELF-REGULATING HEATING CABLE SUITABLE FOR POTABLE WATER



Construction

1. Bus wire/conductor: nickel-plated copper, 18AWG
2. Self-regulating heating element
3. Insulation jacket
4. Tinned copper protective braid
5. Fluoropolymer outer jacket, NSF compliant

BF: Robust protective braid and fluoropolymer outer jacket approved for food, potable water, and for use in mechanically sensitive potable water lines.

Product Overview

The Eltherm ELSR-MA-BF micro self-regulating heating cable is designed to provide in-pipe freeze protection of potable domestic water supply systems. The unique, small-diameter cable design ensures a safe and reliable installation inside the water supply pipe. The cable outer jacket material is NSF-approved food safe and meets all applicable standards for use in potable water systems.

Application

- Heat tracing of metallic and non-metallic pipes, pumps, vessels and valves
- Potable water lines
- For in-pipe applications
- PS (2000kPa / 290psi) (BF)

Features

Nominal voltage

- 120V, 240/208V

Power output

- +50°F (+10°C): 3W/ft.

Max. operating temp. (power on)

- 60°C (140°F)

Max. continuous exposure temp. (power off)

- 60°C (140°F)

Min. start-up temp.

- -30°C (-22°F)

Min. installation temp.

- -25°C (-13°F)

Min. bending radius

- 1in. (25mm)

Ratings

Standards

- IEEC 515, CSA 22.2 130.03

Certification

- FM CUS 3050047



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Models

Nominal output W/ft.	Cable dimension approx. (mm)	Product #	Product #
		240V ^{1, 2, 3}	120V ^{1, 3}
3	7.7 × 6.4	ELSR-MA-3-2-BF	ELSR-MA-3-1-BF

¹ BF protective braid, suitable for use in potable water (certified according to NSF/ANSI 61).

² For operation at 208V, please refer to the Eltherm® correction factors/multipliers.

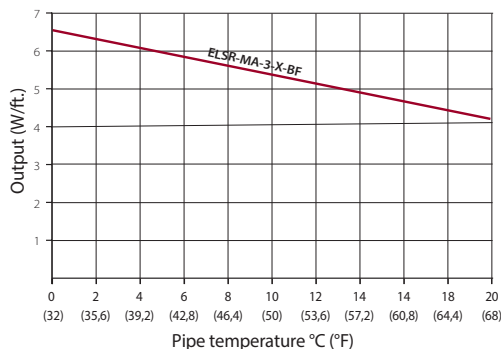
³ When ordering, the quantity on the purchase order is equal to the length in feet of the cable required.
E.g., to order a 500ft. cable, write 500 for quantity with product code.

Heating circuit length

Start-up temperature	Circuit breaker capacity (A)	240V	120V
		Maximum heating circuit (ft.) for ELSR-MA-3-2-BF	Maximum heating circuit (ft.) for ELSR-MA-3-1-BF
10 °C (50 °F)	10	241	139
	15	302	167
	20	302	167
	25	302	167
0 °C (32 °F)	10	202	112
	15	282	153
	20	282	153
	25	282	153

ELSR-MA-3-X-BF

(in a filled water pipeline)



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

To calculate the corrected power output for operation at 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 at 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-MA-3-2-BF	0.82	1.00

Maximum heating circuit on the following conditions:

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

Accessories

See Accessories section.