



**SR-MA-BF**

## Micro Self-Regulating Heating Cable SR-MA-BF suitable for use in potable water

### Features

#### Outer jacket

- Fluoropolymer (BF).

#### Bus wire

- Nickel plated copper, 18 AWG.

#### Minimum start-up temperature

- -30 °C (-22 °F).

#### Maximum operating temperature (power on)

- 60 °C (140 °F).

#### Maximum continuous exposure temperature (power off)

- 60 °C (140 °F).

#### Nominal voltage

- 120V, 240/208V.

#### Bending radius, minimum

- 25 mm (1 in.).

#### Installation temperature, minimum

- -25 °C (-13 °F).

#### Standard

- IEEE 515, CSA 22.2 130.03

#### Certification

- FM CUS 3050047

#### Rating

- Wet rated, for outdoor use (WS).

- PS (2000 kPa/290 psi) (BF).

#### Warranty

- 1-year basic warranty on the heating cable.

#### Application

- Heat tracing of metallic and non-metallic pipes, pumps, vessels and valves,

- Potable water line.

**eltherm**<sup>®</sup>  
innovations in heat tracing 





## Models

Nominal output W/ft.	Product # 120V <sup>1,3</sup>	Product # 240V <sup>1,2,3</sup>	Cable dimension approx. (mm)
3	ELSR-MA-3-1-BF	ELSR-MA-3-2-BF	7.7 x 6.4

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

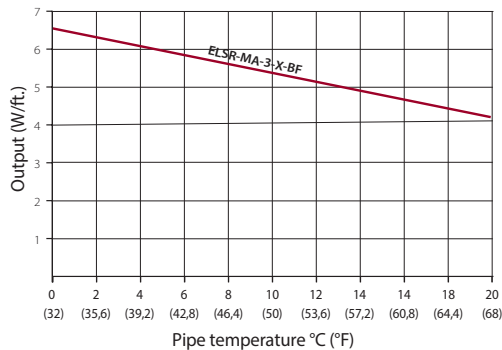
## Heating circuit length

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

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

## ELSR-MA-3-X-BF

(in a filled water pipeline)



## Maximum heating circuit on the following conditions:

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

## 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-MA-3-2-BF	0.82	1.00

## Accessories

See Accessories section.