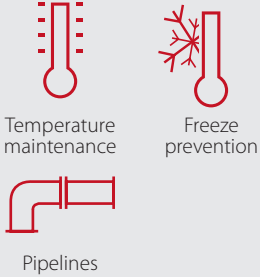




## At a Glance

### Applications



- › In-pipe trace heating for water pipes and water hoses

### Benefits

- › NSF compliant
- › Water proof & UV-resistant
- › Small dimensions

### Designs

- BF** Protective braid and outer jacket, suitable for use in potable water hoses (certified according to NSF/ANSI 61)

### Approvals



- › Certification FM 16 NUS 0014
- › Standards IEEE 515, CSA 22.2 130.16

# ELSR-MA-BF

up to 140 °F (60 °C)



1	Bus wire	Nickel plated copper, 20 AWG (0.63 mm <sup>2</sup> )
2	Self-regulating heating element	
3	Insulation	
4	Protection	Protective braid (Cu, tin plated)
5	Outer jacket	NSF compliant outer jacket

## Technical Information

Min. start up temperature	-22 °F (-30 °C)
Max. continuous exposure temperature (power on)	140 °F (60 °C)
Max. intermittent exposure temperature (de-energized)	140°F (60 °C)
Nominal voltage	120 VAC (ELSR-MA-XX-1-BF) / 240 VAC (ELSR-MA-XX-2-BF)
Min. Bending radius	1.0 in (25 mm)
Min. Installation temperature	-49 °F (- 45 °C)
Rating	PS (2,000 kPa / 290 psi)

## Checklist

### Power Connection & End Termination

ELVB-SRAM-3/4" ST	Power Connection Kit ELSR-MA, -MA-BF with steel/zinc cable gland/fitting, 3/4" NPT (non-hazardous location) <sup>Ⓜ</sup>	09CA013
EL-ECMF	End Termination Kit for ELSR-MA-BF <sup>Ⓜ</sup> Ⓜ	09CA042

<sup>Ⓜ</sup>min. installation temperature -49 °F (-45 °C)

<sup>Ⓜ</sup>coverage: braiding 80 %, aluminum foil 100 %

## Heating Circuit Length

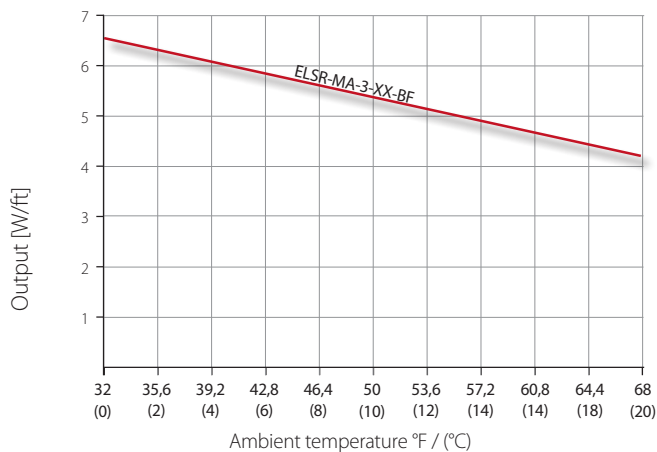
Start up temperature [°C]	Nominal CB rating [A]	120 VAC	240 VAC
		Heating circuit length [ft] ELSR-MA-3-1-BF	Heating circuit length [ft] ELSR-MA-3-2-BF
50 °F (10 °C)	10	139	241
	15	167	302
	20	167	302
	25	167	302
32 °F (0 °C)	10	112	202
	15	153	282
	20	153	282
	25	153	282

Heating circuit lengths on the following conditions

- › Voltage 120 VAC (-1-) / 240 VAC (-2-)
- › Voltage drop max. 10%
- › MCB type QO (100% utilisation)
- › Single heater fed from 1 end

## Power Output

ELSR-MA-3-X-BF output  
(in a filled water pipeline)



## Ordering Information

### 120 VAC

Type	Nominal output [at 50°F (10 °C)]	WxH approx. [mm]	Weight approx. [g/m]	Article - No.
ELSR-MA-3-1-BF	3 W/ft	8.1 x 5x8	68	BA225150

### 240 VAC

Type	Nominal output [at 50°F (10 °C)]	WxH approx. [mm]	Weight approx. [g/m]	Article - No.
ELSR-MA-3-2-BF	3 W/ft	8.1 x 5x8	68	BA225160