



Self-Regulating Trace Heaters

Potable Water Applications

eltherm's ELSR-MA-BF is a light self-regulating trace heater specifically designed and approved for heat tracing of potable water lines. ELSR-MA-BF provides maximum performance in a most compact design and is optimized for short heating circuits for the most economical operation. This versatile trace heater comes with an NSF compliant outer jacket for installation inside of potable water pipelines.

Advantages:

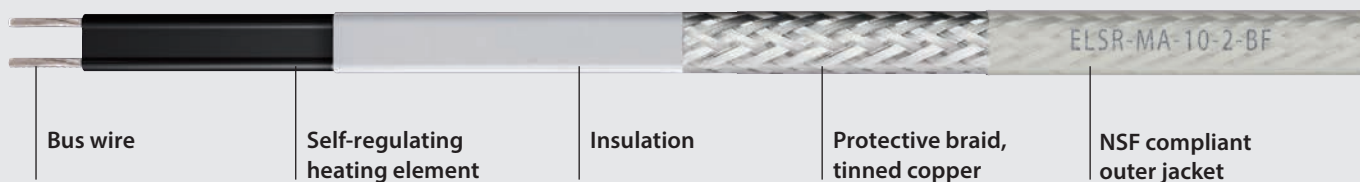
- NSF compliant
- Can be cut to length off the spool
- Moisture proof
- UV-resistant
- Small dimensions

Application:

- Internal trace heating for pipes and hoses



Type ELSR-MA-BF





Technical Information

Type ELSR-MA-BF

Data

■ Outer jacket	Fluoropolymer
■ Bus wire	Nickel plated copper
■ Minimum start up temperature	-22 °F (-30 °C)
■ Maximum exposure temperature (power off)	140 °F (60 °C)
■ Maximum exposure temperature (power on)	140 °F (60 °C)
■ Nominal voltage	120 VAC (ELSR-MA-3-1-BF) 240 VAC (ELSR-MA-3-2-BF)
■ Bending radius, minimum	25 mm (1 in)
■ Installation temperature, min.	-49 °F (-45 °C)
■ Standards	IEEE 515, CSA 22.2 130.16
■ Certificates	FM CUS 3050047
■ Rating	PS (2,000 kPa / 290 psi)

Design

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

Type	Nominal output	Dimensions approx. (mm)	Weight approx. (g/m)	Part No.
ELSR-MA-3-1 BF	3 W/ft at 50 °F (10 °C)	8.1 x 5.8	68	BA225150
ELSR-MA-3-2 BF	3W/ft at 50 °F (10 °C)	8.1 x 5.8	68	BA225160

Heating Circuit Length (immersed)

120 VAC

Start-up temperature	CB capacity (A)	Heating circuit length (ft) for
		ELSR-MA-3-1-BF
50 °F (10 °C)	10	139
	15	167
	20	167
	25	167
32 °F (0 °C)	10	112
	15	153
	25	153

240 VAC

Start-up temperature	CB capacity (A)	Heating circuit length (ft) for
		ELSR-MA-3-2-BF
50 °F (10 °C)	10	241
	15	302
	20	302
	25	302
32 °F (0 °C)	10	202
	15	282
	25	282

Heating circuit lengths ELSR-MA-XX-BF based on the following conditions:

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

ELSR-MA-3-X-BF output

(in a filled water pipeline)

