



At a Glance

Applications



Freeze prevention



Pipelines

- › In-pipe trace heating tested for portable water pipes and flexible water tubes

Benefits

- › DVGW tested
- › Can be used in liquids
- › Suitable for drinking water
- › Small dimensions
- › Protective braid for increased mechanical strength

Design

- BAF** Protective Braid, Aluminium foil, TPE-O outer jacket
- BF** Protective Braid, TPE-O outer jacket

Approvals

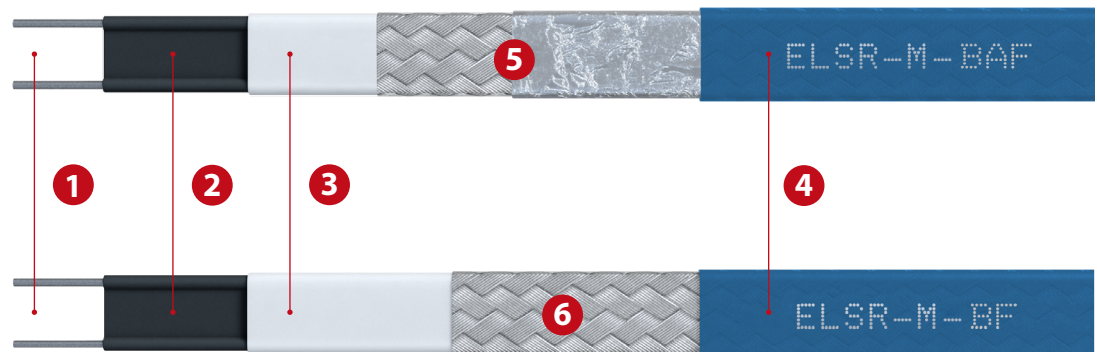


Hygiene Institute
Test report K-350842-21*

- › According to the UBA, the mobile/temporary installation must be tested as a technical unit according to KTW-BWGL

ELSR-M-BAF / -BF

up to 65 °C



1 Bus wire	Nickel plated copper, 0.62 mm ²
2 Self-regulating heating element	
3 Insulation	
4 Outer jacket	TPE-O
5 Protection	Protective braid (Cu, tin plated) with aluminium foil
6 Protection	Protective braid (Cu, tin plated)

Checklist ELSR-M-BAF / -BF

Power Connection & End Termination

ELVB-SRAM-25	Power connection, shrink-fit, Gland M25 x 1,5, PE	091A015
EL-ECMF	Silicone termination cap, glued, transparent, suitable for use in drinking water, max. 10 bar	09112MF
ELVB-SRV-M	Connection set, shrink-fit	0911122
ELVB-70	Cable gland; brass 3/4", for copper / stainless steel pipe	0911703
ELVB-71	Y - entry for ELSR-M; brass, for PE pipe DN32	0911704

Junction Boxes

ELAK-2	104 x 104 x 70 mm, polycarbonate, breakouts 7x M25, IP 66	0920030
ELAK-5	122 x 120 x 90 mm, polyester, 3 breakouts M25, IP 66	0920013
ELAK-5.1	130 x 130 x 75 mm, polycarbonate, breakouts 9x M20/M25, IP 66	0920002



Technical Information

Max. continuous exposure temperature (power on)	65 °C
Max. intermittent exposure temperature (de-energized)	65 °C
Nominal voltage	230 V
Min. Bending radius	25 mm
Min. Installation temperature	– 45 °C

Heating circuit length

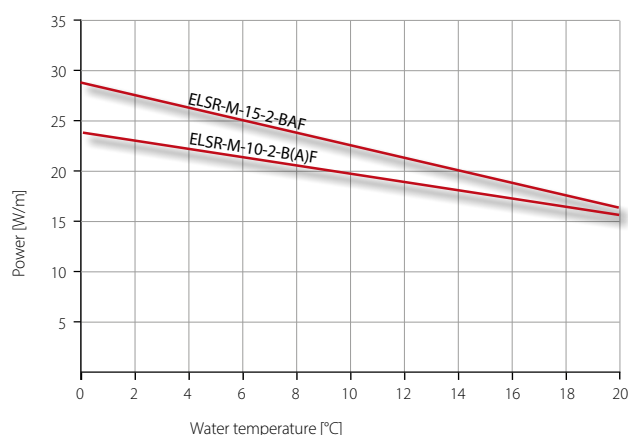
Switch on temperature [°C]	Nominal fuse rating [A]	Heating circuit length*1 [m]	
		ELSR-M-10-2-BAF/-BF	ELSR-M-15-2-BAF
10	10	74.0	74.0
	16	89.0	89.0
	20	89.0	89.0
0	10	61.0	58.0
	16	89.0	71.0
	20	89.0	71.0
-10	10	61.0	58.0
	16	89.0	71.0
	20	89.0	71.0

*1 Heating circuit lengths on the following conditions

- 230 V nominal voltage
- Delayed action circuit breakers (C-characteristic) with 80 % max. load
- Maximum 10 % line voltage drop on heating cable bus wire
- Power connection to one heater end
- immersed in water
(the power output in water is higher compared to air, which means that the heating circuit lengths are shorter than in air)
- In certain installation situations, the heating circuit length may vary.
Please contact our engineers.

Power output

ELSR-M-XX-2-BAF Power output in water



Ordering Information

Type	Nominal output [at 10°C]	WxH approx. [mm]	Weight approx. [g/m]	Article - No.
ELSR-M-10-2-BAF	10 W/m	8,4 x 6,0	65	B0225180
ELSR-M-15-2-BAF	15 W/m	8,4 x 6,0	65	B0225190
ELSR-M-10-2-BF	10 W/m	8,4 x 6,0	62	B0225104