

At a Glance

Applications



Freeze prevention



Pipelines

- › In-pipe trace heating tested for portable water pipes and flexible water tubes
- › -BF and -BAF-Version with protective braid for increased mechanical stress

Benefits

- › DVGW tested
- › Can be used in liquids
- › Suitable for drinking water
- › Small dimensions

Design

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

Approvals

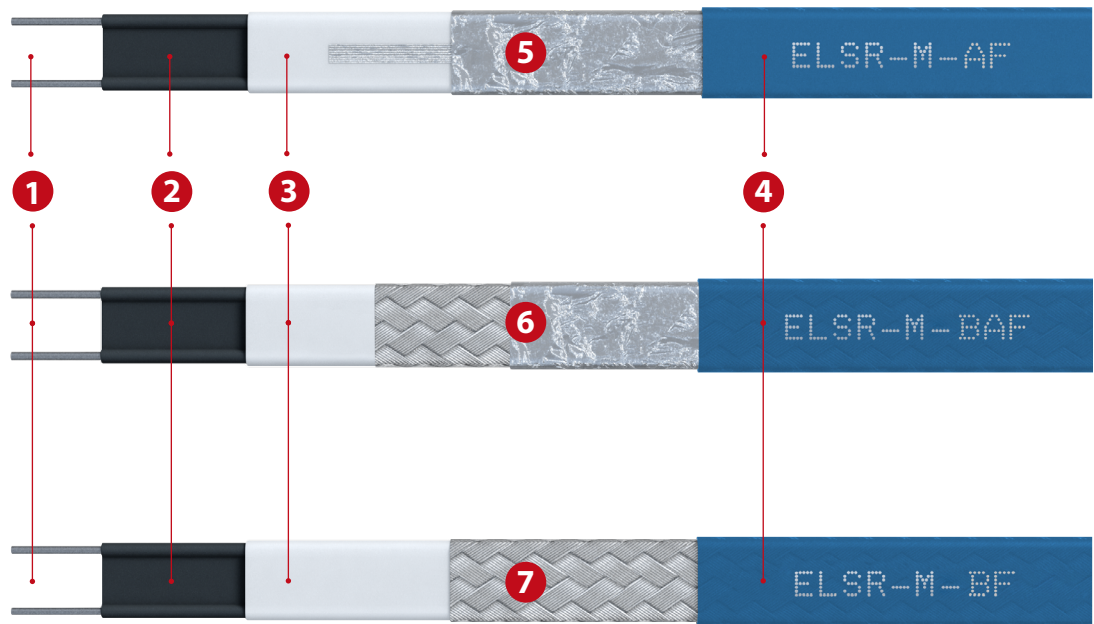


 Hygiene Institute
Test report K-350842-21*

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

*AF, BAF only

ELSR-M-AF / -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	Protective Conductor	Cu, tin plated with aluminium foil
6	Protection	Protective braid (Cu, tin plated) with aluminium foil
7	Protection	Protective braid (Cu, tin plated)

Checklist ELSR-M-(B)AF / -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	09112MF
ELVB-SRV-M	Connection set, shrink-fit	0911122

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
ELVB-70	Cable gland; brass 3/4"	0911703
ELVB-71	Y - entry for ELSR-M; brass	0911704



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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

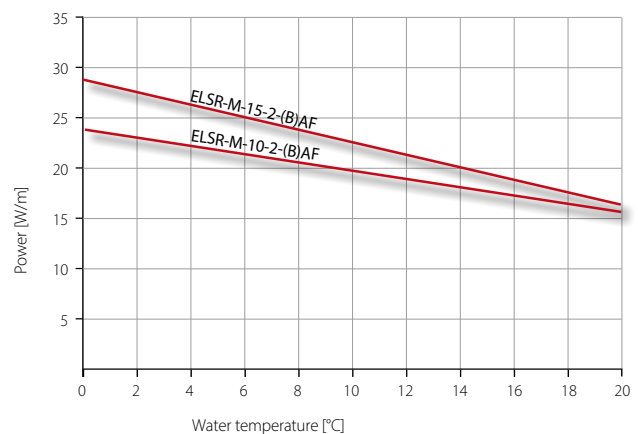
Switch on temperature [°C]	Nominal fuse rating [A]	Heating circuit length* ¹ [m]	
		ELSR-M-10-2 -AF/-BAF/-BF	ELSR-M-15-2 -AF/-BAF
10	10	74.0	74.0
	16	89.0	89.0
	20	89.0	89.0
0	10	61.0	58.0
	16	89.0	71.0
	20	89.0	71.0
-10	10	61.0	58.0
	16	89.0	71.0
	20	89.0	71.0

*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
- In certain installation situations, the heating circuit length may vary.
Please contact our engineers.

Power output

ELSR-M-XX-2-(B)AF 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-AF	10 W/m	7.9 x 6.0	53	B0225105
ELSR-M-15-2-AF	15 W/m	7.9 x 6.0	53	B0225170
ELSR-M-10-2-BAF	15 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	15 W/m	8.4 x 6.0	62	B0225104