

# Self regulating heating tape

## eltherm<sup>®</sup> ELSR-M-AF 65 °C



### Producer datasheet

Reference list:

| part no. Faber | part name Faber                       | part name supplier                                 |
|----------------|---------------------------------------|--|
| 074378         | ELTHERM ELSR-M-AF 15W/M AT 10C - 230V | ELSR-M-15-2-AF [15W/m at 10°C, Un=230V] – B0225170 |

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## 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

### Design

**AF** Aluminium foil, 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-AF

up to 65 °C



|   |                                 |  |
|---|---------------------------------|--|
| 1 | Bus wire                        | Nickel plated copper, 0.62 mm <sup>2</sup> |
| 2 | Self-regulating heating element |  |
| 3 | Insulation                      |  |
| 4 | Protection                      | Cu, tin plated with aluminium foil         |
| 5 | Outer jacket                    | TPE-O                                      |

## Checklist ELSR-M-AF

### 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 |

## Technical Information

|   |                     |
|---|---------------------|
| Max. continuous exposure temperature (power on)       | 65 °C               |
| Max. intermittent exposure temperature (de-energized) | 65 °C (max. 1000 h) |
| Nominal voltage                                       | 230 V               |
| Min. Bending radius                                   | 25 mm               |
| Min. Installation temperature                         | - 45 °C             |

### Heating circuit length

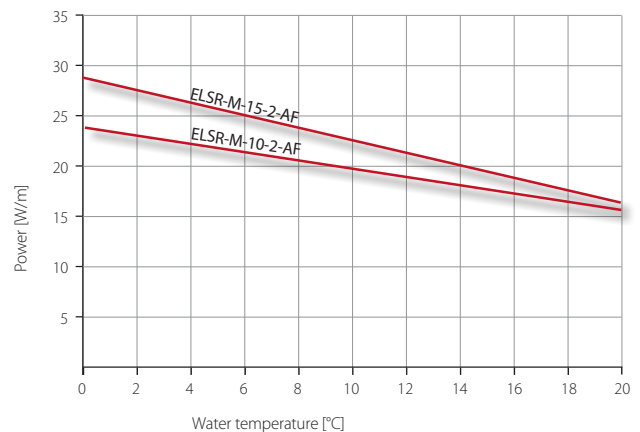
| Switch on temperature<br>[°C] | Nominal fuse rating<br>[A] | Heating circuit length* <sup>1</sup><br>[m] |                |
|-------------------------------|----------------------------|---|----------------|
|                               |                            | ELSR-M-10-2-AF                              | ELSR-M-15-2-AF |
| 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           |
| -30                           | 10                         | 61.0  | 58.0           |
|                               | 16                         | 89.0  | 71.0           |
|                               | 20                         | 89.0  | 71.0           |

\*<sup>1</sup> 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-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      |