

# Self-regulating heating cable 12 V DC - 15 W/m, 65 °C

## Product codes:

Reference: AM8633

EAN13: -

UPC: 85168080

## Product features:

Voltage: 10-15 V DC

Color: Black

Waterproof grade: IP65



## Product attributes:

Length: 1 m, 2 m, 3 m, 4 m, 5 m

## Product description:

Self-regulating heating cable designed for frost protection and tempering of pipes, hoses, tanks and other low voltage applications. The cable automatically adjusts the heating output according to the ambient temperature, ensuring safe and energy-saving operation without the risk of overheating.

## Technical specifications

- Cable type: self-regulating heating cable
  - Supply voltage: 10-15 V DC
  - Nominal power: 15 W/m at 10 °C
  - Maximum holding temperature: 65 ±5 °C
  - Maximum short-term temperature: 135 °C
  - Heating cable length: 1 m / 2 m / 3 m / 4 m / 5 m (product variants)
  - Power cord length: 0.4 m
  - Cable dimensions: 8 × 3 mm
  - Minimum bending radius: 15 mm
  - Conductor: tinned copper
  - Outer sheath: PE (polyethylene)
  - Protection: IP65
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- Weight: 60g/m

### Functions and features

- Self-regulating heating output reacting to ambient temperature
- Even heat distribution along the entire length of the cable
- Safe operation without the need for a thermostat
- High resistance to temperature and humidity
- Possibility of shortening and parallel connection of multiple cables
- Easy installation with straps or fasteners
- Suitable for continuous operation

### Ideal for

- Protection of water and technological pipes against freezing
- Temperature control of hoses, valves and connections
- RVs and caravans – drinking water distribution
- Low voltage industrial and laboratory applications
- Automated systems with 12V DC power supply

### Package contents

- Self-regulating heating cable of selected length

### Why choose this product?

- Automatic power control without complex electronics
- Energy saving and long service life
- Secure solution for sensitive applications
- Compact dimensions and flexible design
- High reliability even in demanding conditions

### Table for selecting the recommended 12 V DC power source

To select a suitable source, allow a margin of 30% (due to start-up, line losses and operation in cold conditions). Calculation: Cable power  $P = 15 \text{ W/m} \times \text{length (m)}$ . Current  $I = P / 12 \text{ V}$ . Recommended source:  $P_{\text{source}} = P \times 1.30$  and  $I_{\text{source}} = I \times 1.30$ .

- 1 m:  $P = 15 \text{ W}$ ,  $I = 1.25 \text{ A}$ , recommendation (30% reserve):  $19.50 \text{ W} / 1.63 \text{ A} \rightarrow 12 \text{ V DC } 2 \text{ A (24 W)}$  power supply or stronger
  - 2 m:  $P = 30 \text{ W}$ ,  $I = 2.50 \text{ A}$ , recommendation (30% reserve):  $39.00 \text{ W} / 3.25 \text{ A} \rightarrow 12 \text{ V DC } 4 \text{ A (48 W)}$  power supply or stronger
  - 3 m:  $P = 45 \text{ W}$ ,  $I = 3.75 \text{ A}$ , recommendation (30% reserve):  $58.50 \text{ W} / 4.88 \text{ A} \rightarrow 12 \text{ V DC } 5 \text{ A (60 W)}$  power supply or stronger
  - 4 m:  $P = 60 \text{ W}$ ,  $I = 5.00 \text{ A}$ , recommendation (30% reserve):  $78.00 \text{ W} / 6.50 \text{ A} \rightarrow 12 \text{ V DC } 8 \text{ A (96 W)}$  power supply or stronger
  - 5 m:  $P = 75 \text{ W}$ ,  $I = 6.25 \text{ A}$ , recommendation (30% reserve):  $97.50 \text{ W} /$
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8.13 A → 12 V DC 10 A (120 W) power supply or stronger

#### **Installation and sizing recommendations**

- Power supply: use a stabilized 12 V DC power supply with sufficient current according to the table.
- Cables: for longer connections, choose a larger cross-section of the cables due to voltage drop (lower voltage means lower heating output).
- Protection: a fuse or circuit breaker on the DC side is recommended depending on the selected source current.
- For demanding conditions: for outdoor installation and very low temperatures, it is advisable to choose a power source with a higher power class.

#### **Product gallery:**

