

# Heating cable ø1.4mm, 5-48V DC, Teflon insulation

## Product codes:

Reference: AM5048

EAN13: -

UPC: 85168080

## Product features:

Voltage: 5-48 V DC

Average: 1.2 - 1.4 mm

Color: Red

Quantity core: 1

Minimum bending radius: 4 cm



## Product attributes:

Resistance heating cable: 0.3 Ohm/m, 1 Ohm/m, 1.4 Ohm/m, 3 Ohm/m, 4 Ohm/m, 5 Ohm/m, 8 Ohm/m, 10 Ohm/m, 15 Ohm/m, 20 Ohm/m, 25 Ohm/m, 40 Ohm/m

## Product description:

The 1.4 mm diameter heating cable is designed for low voltage DC applications in the range of 5-48 V DC, where uniform heating, mechanical flexibility and durable insulation are required. It is suitable for integration into heating elements, frost protection, temperature control of smaller areas as well as for construction and service use in technical equipment.

## Technical specifications

- Product type: resistance heating cable
  - Cable outer diameter: 1.4 mm
  - Power supply: 5-48V DC
  - Insulation: fluoropolymer, Teflon type
  - Heating element material: nickel-chromium and copper
  - Available resistance options: 0.3 / 1 / 1.4 / 3 / 4 / 5 / 8 / 10 / 15 / 20 /
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25 / 40 Ohm/m

- Insulation temperature resistance: up to 200 °C
- Maximum long-term temperature: up to 250 °C
- Cable type: round
- Sales unit: 1 meter

#### **Functions and features**

- Designed to create resistance heating when powered by DC voltage
- Teflon insulation ensures good thermal, chemical and electrical resistance
- Resistance to oils, acids and alkalis
- Insulation with good resistance to aging and electric arc
- Flexible design suitable for integration into smaller devices and assemblies
- Possibility to choose resistance per meter according to the required power and cable length
- The power depends on the supply voltage, the selected length and resistance of the cable

#### **Ideal for**

- Seat and steering wheel heating
- Refrigerators, air conditioning and defrosting applications
- Heated insoles, footwear, clothing and textile heating elements
- Electric blankets, pads and smaller heating surfaces
- Pipeline protection against freezing
- Heating of windows and smaller structural units
- Incubators, breeding facilities and selected medical facilities
- Special low-voltage heating applications in instrumentation

#### **Package contents**

- 1x heating cable in the selected resistance variant
- The delivery length corresponds to the ordered quantity in meters.

#### **Why choose this product?**

- Wide power supply range for low voltage DC applications
- Large selection of resistor variants for designing the required power
- Compact 1.4mm diameter for easy integration
- Durable fluoropolymer insulation for operation in more demanding environments
- Suitable solution for technical, development and service use

#### **Installation and operating instructions**

- When designing, it is necessary to correctly select the resistance per
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meter, cable length and supply voltage.

- Approximate power calculation:  $P = U \times U / (L \times R)$ , where U is the voltage, L is the cable length and R is the resistance in Ohm/m
- Install the cable in such a way as to ensure even heat dissipation into the heated material.
- During operation, avoid mechanical damage to the insulation and local overheating.
- For stable and safe operation, we recommend using a suitable power supply and regulation.

#### **Safety notice**

- Designed for low voltage DC power supply 5-48 V DC
- Do not connect the cable to the 230 V AC mains voltage.
- Before commissioning, verify the electrical parameters of the entire assembly
- The resulting surface temperature depends on the power, installation method and heat dissipation conditions.
- The product is intended as a component for incorporation into a device or technical unit.

#### **Product gallery:**

