**EN:** This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

## Resistance heating wire **KANTHAL D ∅ 0,50mm** Mass: **100g**

We offer a soft resistance heating wire from a renowned Swedish manufacturer. Offered wire has a diameter of **Ø 0,50 mm**. Due to its outstanding performance, it is an excellent choice for any professional who relies on perfect quality, reliability and convenience of use. This flexible, well-laying, weather-resistant and convenient product is ideal for even the most advanced production projects and any assembly, service or hobby work.

**Wire technical parameters:**

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|---|---|
| ● Nominal diameter of the resistance wire | **∅ 0,50mm** |
| ● Nominal cross-section of the resistance wire | **0,20mm$^2$** |
| ● Wire cross-section in SWG | **SWG 25** |
| ● Manufacturer part number KANTHAL MPN | **KANTHAL-D-0.50/100** |
| ● Manufacturer code – product number | **030373** |
| ● Resistance heating wire base material | **FeCrAl alloy** |
| ● Wire resistance at T = 20°C | **6,88 Ω/m** |
| ● Heating surface of the wire | **15,7 cm$^2$/m** |
| ● Approximated net. weight of the wire | **1,42 g/m** |
| ● Minimum tensile strength of the wire | **670 MPa** |
| ● Minimum wire elongation at break | **23 %** |
| ● Resistance to friction, vibration, oscillation | **YES** |
| ● Corrosion resistance | **YES** |
| ● Resistance to current overload | **YES** |
| ● Resistance to thermal shocks, embers | **YES** |
| ● Resistance to flame spreading | **YES – Product is incombustible** |
| ● Authorized to have a contact with food | **YES – Product is non-toxic** |
| ● Method of electrical assembly of wires | **Crimping, Soldering, Twisting** |
| ● Operating temperature of wire | **-100°C ÷ +1300°C** |
| ● Minimal temperature of wire melting | **+1500°C** |
| ● Quantity of product in packaging – net. weight | **100 grams** |
| ● Approximate length of wire in packaging | **70,4 meters** |
| ● Packaging | **Evenly rolled onto polypropylene spool** |
| ● Material and dimensions of packaging - spool | **Polypropylene ∅ = 50mm / H = 22mm** |
| ● Way of securing the packaging | **Thermo-shrinkable POF film cover** |

***We maintain large stock, we guarantee constant availability in the warehouse of all items, and provide immediate shipping!***

Our **KANTHAL D** soft resistance heating wires not only guarantee the highest global product quality and the latest pro-environmental technologies, but also provide convenience and savings coming from reliability.

This type of heating resistance wire has one of the highest thermal indexes **D**, which guarantees a operating temperature from **-100°C** to **+1300°C**. Their uniform design, Swedish quality and precise workmanship ensure a constant diameter, unchanged along the entire length, exceptional flexibility, overload resistance and excellent thermal, resistive and mechanical stability. These wires are extremely durable and perfectly form to the shape specified by the customer's needs. This product is available in 11 of the most popular diameters from **Ø 0.30mm** / SWG 31 to **Ø 1.50mm** / SWG 17.

The wires are made of KANTHAL's patented **FeCrAl** alloy, made of the highest purity components, which guarantees the constancy of the ferritic structure for each alloy batch and their excellent and time-constant electrical parameters. By having a homogeneous, smooth coating and therefore a very low friction coefficient of the wire surface, they have excellent mechanical abrasion resistance, are extremely resistant to vibration and oscillation and are resistant to all kinds of current or thermal overloads. Each wire diameter has a strict rated resistance per meter, which greatly facilitates design and execution of systems. These wires, due to their excellent quality and durability, are recommended for industrial applications with the coercion of continuous operation. They are dedicated to all applications that place very strict strength requirements, and in particular for performing all kinds of heating elements for sealers, extruders, injection molding machines, packaging machines, shrink blowers for heat shrink sleeves, furnaces, heaters, heating equipment, soldering lines, soldering irons, crucibles, heaters, heat guns, dryers, polystyrene cutting and forming equipment, de-icing equipment and installations, irons, kitchens, ceramic heating plates, mangles , e-cigarettes and many others. The constant resistance parameter allows them to be used in making high-power precision wire resistors, specialized potentiometers and shunts or series regulators, and replacement loads for use in all kinds of professional electronic devices or measurement and laboratory technology. A very wide thermal range allows their use in the course of any research, prototype or laboratory work, in cold and heating chambers and all equipment operating at extremely variable temperatures, and for any service and hobby work.

Heating resistance wires are available in packs containing **100 grams** or **250 grams** of product. They are evenly and consistently wound onto comfortable and fully recyclable plastic spools, with a diameter of **Ø = 50mm** with an internal guide hole **Ø = 20mm** and packed in a sealed cover made of transparent shrink film, which allows recipent to quickly find the wire needed for installation on the shelf of the warehouse, protects against oxidation and patina, dust or getting dirty during storage and always guarantees the final recipient the highest quality when removed from the packaging.

Wire parameters meet **ISO 9001**, **ISO 14001**, are authorized for use on **EU** markets (standard 73/23/EEC) and **CE** marked (Directive 2006/95/EC) and comply with the requirements of the **RoHS** Environmental Directives (Act 2002/95/EU ), **RoHS-2** (Law 2011/65/EU), **RoHS-3** (Act 2015/863) and comply with **REACH** requirements (Regulation 1907/2006).

At each request of the Recipient, we issue a certificate of conformity free of charge.

**KANTHAL D** resistance heating wires can be used both for professional heating elements and precision high-power resistance components, exposed to very high overloads and continuous operation in extremely heavy conditions and for simple hobby work. They are a great choice for those who value quality, reliability and comfort.