



Automatización Eléctrica

Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#). [HERE](#)

Resistance wire on mini bobbin **RD 100/2,0**



Picture shows RD 100/0,4

Advantages

Resistant in specific resistance

Influence of the temperature or inherent heating on the resistance value practically insignificant (max. 0.8 % at 100 °C temperature rise)

Firmly adhering surface oxide coating withstands any temperature change and protects against further oxidation under continuous load

Very easy to machine thanks to softness and malleability

Suitable for soft soldering, hard soldering or welding

Applications

Resistance wire for the production of technical resistances, shunts and for general laboratory needs.

Approvals



Resistance wire on mini bobbin RD 100/2,0

| Type | | RD 100/2,0 |
|--------------------------------|--|------------|
| Electrical data | Operating data | |
| | Current intensity for wire temperature (100°C) | 10.000 A |
| | Current intensity for wire temperature (200°C) | 16.800 A |
| | Current intensity for wire temperature (300°C) | 22.700 A |
| | Resistance | 0.156 Ω/m |
| Specific electrical resistance | 0.49 (Ωx mm ²)/m | |

| Type | | RD 100/2,0 |
|----------------------|--|-----------------------|
| Mechanical data | Operating data | |
| | highest wire temperature | to 600 °C |
| | Mean linear coefficient of thermal expansion between 20 - 100 °C | 13.5x10 ⁻⁶ |
| | Mean temperature coefficient of resistance at 20 °C | 0.00004-0.00008 |
| | Melting point | 1220-1270 °C |
| Measures and weights | | |
| | Weight | 0.10 kg |
| | Wire diameter | 2.00 mm |
| Notes | | |

Remark

The specified wire temperatures apply for blank Isotan wires, especially unclamped in still air. Oxidized wires have a higher radiated temperature. The current load precisely required for a defined temperature can ultimately only be explicitly determined for the relations and requirements on the customer side for the specified intended use.

Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button](#).

| Product | Code | Reference | Product link |
|---|-------------|------------------|----------------------------|
| Resistance wire on mini bobbin Resistance wire, 50 g, 100 g, Diameter 0,1-4,0 mm | RD10020 | RD 100/2,0 | Buy on EAN |