Resistance wire

RD 100/0,8 - no longer available



Picture shows RD 100/0,4

Advantages

- Constant 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



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Electrical data

Type	RD 100/0,8 - no longer available
Operating data	
Current intensity for wire temperature (100°C)	3.190 A
Current intensity for wire temperature (200°C)	5.330 A
Current intensity for wire temperature (300°C)	7.210 A
Resistance	0.975 Ω/m
Specific electrical resistance	0.49 (Ω x mm²)/m

Mechanical data

Type	RD 100/0,8 - no longer available
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	
Wire diameter	0.80 mm
Weight	0.10 kg
Notes	
Notes	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.

Subject to change.