



MAGNESOL[®] U-155

MAGNESOL[®] UN-155

Properties

Magnesol[®] U-155 has the following characteristics:

- thermal index of 155°C,
- solderability at 390°C without removing the enamel coating
- good resistance to impregnation varnishes and chemicals

Insulation

Magnesol[®] U-155 is a solderable polyurethane enameled copper wire.

Applications

Magnesol[®] U-155 is recommended for the following applications:

- connection without stripping
- automatic connection in solder bath at 390°C,
- automatic processes,
- use of twisting devices.

Main uses are found in relays, transformers, television and car components as well as the telecommunication technology, the construction of micro motors, low range motors and measure apparatus.

Production range

The standards are:

Diameter: 0.02 to 2 mm
Thickness base coat: Grade 1, Grade 2 and Grade 3 on request
Color: Natural or red

Magnesol[®] U-155 which is specially adapted for high-speed process. (NEMA MW80/IEC 60317-21)

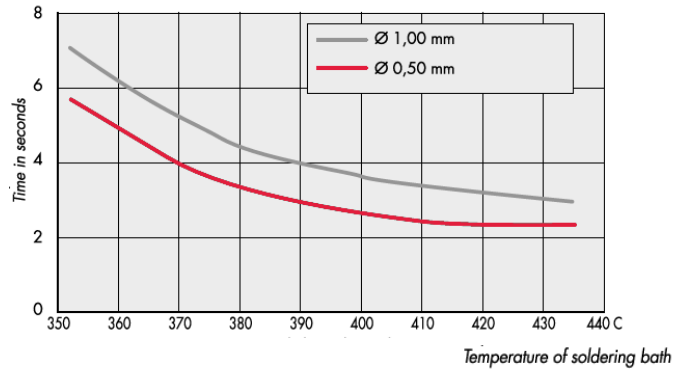
MAGNESOL[®] U-155

Valeurs typiques d'un fil Magnesol[®] U-155 mesurées selon les normes CEI 60 851	Typical values for a Magnesol[®] U-155 sample according to IEC 60 851 standards	
Diamètre du conducteur Diamètre sur émail Isolation de base	0,200 0,234 Polyuréthane	Conductor Diameter Overall Diameter Basecoat
Principales caractéristiques		Main characteristics
Indice de température	155°C	Thermal index
Choc thermique	OK at 180°C	Heat shock
Thermoplasticité	220°C	Cut through temperature
Tension de claquage	≥ 1,5 x IEC values	Breakdown voltage
Flexibilité	20 % + 1 diam.	Flexibility
Allongement	34 %	Elongation
Tangente Delta	≥ 140°C	Tangente Delta
Resistance aux agents chimiques	Good	Chemical resistance
Soudabilité	390°C, 2 sec.	Soderability

These values are for information only.

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Example of solderability times according to the temperature.
Method IEC 60-851
Typical Values from a
Magnesol[®]U-155 sample



Thermal endurance graph – Temperature index

Magnesol[®] U-155, without impregnation

Nominal diameter 0,400mm

Increase in diameter due to the insulation 0,034mm

Test voltage 400V

