

Standard

608515.Test 13

Covered and Taped wires

2GL FO331

Round wire nickel plated wire, with fiber glass covering and taped with Polyester film

Description:

2GL FO331 is a nickel plated round wire, with a fiber glass covering, and a taping with PET film on the outer surface with an overlapp of 45-50%. A suitable heat treatment melts the PET and thus bonds firmly the films overlapping.

Dimension:

Round copper wire with diameter from 0.50 to 2.00 mm, nickel plated with 3 µm mini.

Diameter and tolerances acc. to IEC 60317-0-1

Standards:

IEC-Publication doesn't exist for such product.

The test methods are based on IEC Publication 60851:

60851-1 General

60851-2 Definition of dimensions

- 60851-3 Mechanical properties 60851-4 Chemical properties
- 60851-5 Electrical properties
- 60851-6 Thermal properties

Advantages:

Thanks to the good temperature resistance and the very good mechanical and chemical properties, 2GLFO331 wires are particularly suitable for applications that are exposed to high temperatures.

Application:

Special motors and magnetic coils that have to meet very high requirements.

Process Notes:

Due to the glass yarn behaviour, and PET film insulation, precautions are necessary:

- Hard and sharp edges on the tools during winding and forming of the coils must to be avoided.
- The best method of stripping the insulation for this type of wire is mechanically by hand or with a rotating knife.

		for Ø 1.00 mm	otandara
Insulation			
Thickness increase due to insulation	mm	max. 0.22	
Mechanical properties			
Elongation at break	%	> 20	IEC 60851-3, Test 6
Springiness	o	max. 60	IEC 60851-3, Test 7
Electrical properties			
Nominal resistance D.C. at 20 °C	Ohm/m	max. 0.02176	IEC 608515,Test 5

Value

-			Test 6
Springiness	٥	max. 60	IEC 60851-3, Test 7
Electrical properties			
Nominal resistance D.C. at 20 °C	Ohm/m	max. 0.02176	IEC 608515,Test 5
Breakdown voltage	V	> 500	IEC

Appearance

shot bath

Slight color variations are raw material or process-related and have no influence on the technical properties of the wire

Order data :

Quantity, Designation and Mode of Supply

Mandrel $\emptyset = 10 \text{ x d in metal}$

round (DR) 0.80 mm Cu nickel plated (3µm mini) 2GL FO331

The mode of supply shall indicate the type of reel required, e.g. cylindrical reel according to IEC 60264-2.

Example of complete order:

200 kg DR Cu Ni plated 0.80 mm 2GL FO331, reels D250

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