# TORNS FIL DE BOBINAGE SAS

# 🔽 VICENTE TORNS GROUP

# Fibre-insulated wires GU 600 flat

# Flat bare copper wire insulated with impregnated glass braid

# **General Description:**

Copper wires of rectangular cross-section are insulated with a single braid of glass-yarn fibres and impregnated with a modified polyester-imide Class H based varnish. The glass fibre is made of a special alkali-free glass fibre (E-glass), ensuring thereby no loss of the good dielectric properties even at high temperatures.

Temperature Index is 180 °C.

## Dimensions:

Cross-section:	2 to 60 mm2
Width:	2 to 15 mm
Thickness:	2 to 6 mm
Width/Thickness ratio:	max. 10 : 1

The standard dimensions of the conductors (nominal dimensions and corner radii), the tolerances and the overall dimensions of the enamelled wire comply with the standard IEC 60317-0-2.

#### Insulation Construction: Туре Construction

GU 600 Single braid of glass yarn, impregnated with polyester-imide varnish

## Standards:

No specific standards exist for coverings made of varnished glass braid.

The test methods when applicable are based on IEC-Publications 60851:

60851 - 1	General
60851 - 2	Determination of the dimensions
60851 - 3	Mechanical properties
60851 - 4	Chemical properties
60851 - 5	Electrical properties
60851 - 6	Thermal properties

# Advantages:

 Excellent resistance to high temperatures in continuous mode

Good chemical resistance

		Value	Test standard
Increase in insulation			
Thickness increase due insulation	mm	0.40 +/-0.1	
Mechanical properties			
Elongation at break Thickness up to 2.50 mm	%	≥ 30	IEC 60851-3 Test 6
Elongation at break Thickness above 2.50 mm	%	≥ 32	IEC 60851-3 Test 6
Springiness	٥	≤ 5.0	IEC 60851-3 Test 6
Electrical properties			
Breakdown voltage Straight samples	V	min. 400	IEC 60851-3 Test 6
Thermal properties			
Thermal endurance	ті	180	

### Appearance

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

The designation shall contain:

Type of wire	rectangular (FL)
Dimensions bare	8.00 x 3.00 mm
Conductor material	Cu
Designation of the insulation	GU 600

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

Example of complete order: 500 kg FL GU600 3.00x8.00 mm D500

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