



## New Constantan 6J11 Copper Nickel Alloy Resistance Wire Flat Strip Ribbon Wire

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ROHS, ISO 9001
- Model Number: New constantan 6J11
- Minimum Order Quantity: 5
- Price: 15~25\$/kg
- Packaging Details: Wooden box/pallet, spool wire with carton box, coil with polybag
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



### Product Specification

- Product Name: New Constantan 6J11 Copper Nickel Alloy Resistance Wire Flat Strip Ribbon Wire
- Material: Cu/Ni/Mn
- Nickel: 10.5~12.5%
- Resistivity: 0.49+/-0.03
- Tensile Strength: 420 MPA
- Density: 8.0 G/cm3
- Condition: Hard / Soft
- Surface: Bright
- Delivery Time: 7-20 Days
- Magnetic Properties: Non-Magnetic
- Thermal Conductivity At 20°C: 2W/mK
- Diameter: 0.1~10mm
- Highlight: ribbon alloy resistance wire, flat strip Ribbon wire,



### More Images



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## Product Description

### Introduction:

Constantan 6J11 is a specific type of constantan alloy wire. This alloy is typically used in the production of resistors, strain gauges, and other applications where a stable, low-temperature coefficient of resistance is required. Constantan 6J11 is known for its consistent electrical properties over a wide temperature range, making it suitable for precision measurement and control systems

### Application:

**Resistors:** Constantan 6J11 wire is used in the manufacturing of precision resistors due to its low temperature coefficient of resistance and stable electrical properties over a wide temperature range.

**Strain Gauges:** It is utilized in the production of strain gauges for measuring mechanical strain in various materials and structures.

**Temperature Sensors:** Constantan 6J11 wire can be employed in the construction of temperature sensors and thermocouples due to its consistent electrical behavior over a range of temperatures.

**Precision Instrumentation:** It is used in precision measurement and control systems where stable electrical properties are essential for accurate readings and control.

**Heating Elements:** In some cases, Constantan 6J11 wire can be used in heating elements and other applications where its resistance properties are advantageous.

### Advantage:

**Resistance to Corrosion:** Constantan 6J11 wire is resistant to corrosion, which enhances its durability and reliability in various environmental conditions.

**High Tensile Strength:** The wire has high tensile strength, making it suitable for applications where mechanical durability is important.

**Compatibility with Welding:** Constantan 6J11 wire is often compatible with welding processes, allowing for ease of integration into various manufacturing processes.

These advantages make Constantan 6J11 wire a preferred choice for applications such as precision resistors, strain gauges, temperature sensors, and other precision instrumentation where stable electrical properties are crucial.

### Parameter:

Main Chemical composition (%)

New Constantan	Copper	Al	Mn	Fe
Chemical	Rest	2.5~4.5	10.5~12.5	1.0~1.6

Physical Parameters:

Type	Resistivity ( $\mu\Omega\cdot m$ at 0°C)	Max working temperature (°C)	Tensile strength (Mpa)	Melting point (°C)	Density (g/cm <sup>3</sup> )	EMF vs Cu uV/°C (0~100°C)	Elongation (%)
6J11	0.49±0.03	400	420	1280	8.9	2	>15%

Type of product:

Type	Size(mm)		others
Round wire	0.1~8mm		Customized
Flat ribbon wire	W-0.5~5mm	T-0.1~3mm	
Strip/foil	W-6~250mm	T-0.1~3mm	
Rod	8~200mm		



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