Basic Information

Place of Origin: China Brand Name: Victory

Certification: CE,ROHS,ISO 9001

Model Number: type TMinimum Order Quantity: 5 KgPrice: Negotiable

Packaging Details: Thermocouple wire are rolled on ABS white

spool and packed with plastic film,in cartoon boxes.

Special packaging requirements can also be

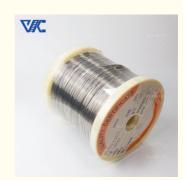
accommodated.

OEM is also acceptable

• Delivery Time: 5-21 days

• Payment Terms: L/C, T/T, Western Union, MoneyGram

• Supply Ability: 300 tons per month



Product Specification

• Product Name: Thermocouple Wire Type T

Temperature Range: -200~350°C
 EMF Tolerance: +/- 1.0C Or +/- .75%
 Diameter: 0.12-8mm

Grade: IEC854-1/3 Positive: Copper

Negative: Cu-Ni (constantan)
 Special Limits Of Error: +/- 0.5C Or 0.4%
 Certificate: ISO9001
 Color: Bright
 Application: Cable & Wire

• Highlight: Type B platinum rhodium thermocouple wire,

PTFE platinum rhodium thermocouple wire,

ISO9001 thermocouple wire



More Images







Product Description

Introduction:

T-type thermocouple bare wire is a common temperature measurement device, widely used in industrial control and laboratory research fields. Copper-copper-nickel thermocouple (T-type thermocouple), also called copper-constantan thermocouple, is the best cheap metal thermocouple for measuring low temperatures. Its positive electrode (TP) is pure copper, and the negative electrode (TN) is a copper-nickel alloy, often called constantan. It is common with nickel-chromium-constantan constantan EN, but not with iron-constantan constantan JN, although they are both called constantan.

Copper - Copper-nickel thermocouple measuring temperature range is - 200~350°C

The structure of the T-type thermocouple bare wire is relatively simple. It consists of two slender metal wires. One end of the two wires is connected together to form a measurement point, and the other end is connected to a temperature measurement device, such as a temperature transmitter or data sensor. Acquisition System. Typically, T-type thermocouple bare wires have smaller wire diameters to increase sensitivity and response speed.

When measuring temperature, the measuring point of the bare wire of the T-type thermocouple is exposed to the environment

Our Product Introduction



that needs to be monitored. Temperature changes will cause a slight potential difference between the metal wires. There is a specific relationship between this potential difference and temperature, known as the thermoelectric effect. By measuring this potential difference, the temperature of the environment can be accurately calculated.

However, it should be noted that T-type thermocouple bare wires may oxidize and corrode in high-temperature environments, so in specific applications, protective measures may be required, such as the use of protective sleeves or coatings to extend their service life.

Characteristic:

Thermocouple material: T-type thermocouple bare wire is composed of copper (Copper) and copper-nickel alloy (Constantan). Copper is the positive electrode of the bare wire of the T-type thermocouple, and Constantan is the negative electrode.

Temperature range: Type T thermocouple bare wire is suitable for lower temperature ranges, typically measuring temperatures from -200°C to 350°C (-328°F to 662°F).

Linear characteristics: T-type thermocouple bare wire has good linear characteristics and can provide relatively accurate temperature measurement.

Low drift: T-type thermocouple bare wire has low drift characteristics and can maintain relatively stable temperature measurements.

Advantage:

Widely used: T-type thermocouple bare wire is widely used in industrial control and laboratory environments.

Corrosion resistance: T-type thermocouple bare wire has good corrosion resistance and is suitable for temperature measurement in some humid and corrosive environments.

Fast response: T-type thermocouple bare wire has fast temperature response capability and can quickly reflect temperature changes.

Relevant specific parameters:

Temperature range: -200°C to 350°C (-328°F to 662°F)
Thermoemf output: Varies based on temperature changes, usually in the microvolt (μV) level.

Linear characteristics: Has good linear characteristics.

Sensitivity: Varies based on specific model and manufacturer.

Code	Wire Component of the thermocouple	
	+Positive leg	- Negative Leg
N	Ni-Cr-Si(NP)	Ni-Si-magnesium (NN)
K	Ni-Cr(KP)	Ni-Al(Si) (KN)
E	Ni-Cr(EP)	Cu-Ni (EN)
J	Iron (JP)	Cu-Ni (JN)
Т	Copper (TP)	Cu-Ni (TN)
В	Platinum Rhodium-30%	Platinum Rhodium -6%
R	Platinum Rhodium-13%	Platinum
S	Platinum Rhodium -10%	Platinum

Standards

ASTM	ANSI	IEC	DIN	BS	NF	JIS	GOST
(American Society for Testing and Materials) E 230	(American National Standard Institute) MC 96.1	(European Standard by the International Electrotechnical Commission 584)- 1/2/3	(Deutsche Industrie Normen) EN 60584 -1/2	4937 1041	(Norme Française) EN 60584 -1/2 - NFC 42323 - NFC 42324	(Japanese Industrial Standards) C 1602 - C 1610	(Unification of the Russian Specifications) 3044

Using Occastion	of Different Thermocouple			
Thermocouple Type		Working Atmosphere	Working Temperature	
Туре К	KP	Oxidizing	-200 to +1200°C	
	KN	Inert		
Type N	NP	Oxidizing	-200 to +1200°C	
	NN	Oxidizing		
Type E	EP	Oxidizing	-200 to +900°C	
	EN	Oxidizing		
Type J	JP	Oxidizing(use in high temp)	-40 to +750°C	
	JN	Reducing, Inert, Vacuum		
Туре Т	TP	Oxidizing, Vacuum	-200 to +350°C	
	TN	Reducing, Vacuum		

Working temperature:

Diameter/mm	Long time Working	Short period Working	
Diameter/min	temperature/°C	temperature/°C	
0.2, 0.3	150	200	
0.5, 0.8	200	250	
1.0, 1.2	250	300	
1.6. 2.0	300	350	

contact us

email:victory@dlx-alloy.com

Oem service:

Welcome customized size

We are experience factory for OEM&ODM service

Specific application areas:

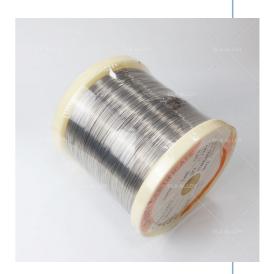
Laboratory research: T-type thermocouple bare wire is widely used in scientific research and laboratory environments for measuring sample temperature, thermodynamic experiments, etc.

HVAC system: T-type thermocouple bare wire can be used for temperature monitoring in HVAC systems, such as temperature control, environmental monitoring, etc.

Biomedical: T-type thermocouple bare wire is often used in biomedical fields, such as body temperature monitoring, laboratory

research, etc.





Q&A:

What is the temperature range of T-type thermocouple bare wire?

Answer: The temperature range of T-type thermocouple bare wire is usually between -200°C and 350°C.

What are the advantages of T-type thermocouple bare wire?

Answer: T-type thermocouple bare wire has the advantages of wide application, corrosion resistance and fast response.

What applications are T-type thermocouple bare wire suitable for?

Answer: T-type thermocouple bare wire is suitable for laboratory research, HVAC systems and biomedical applications.



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