E Type Thermocouple 900 Degree Thermocouple Bare Wire E Types

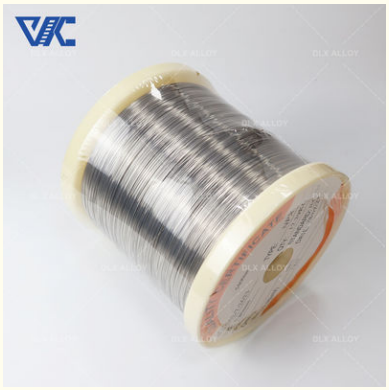
Our Product Introduction

Basic Information

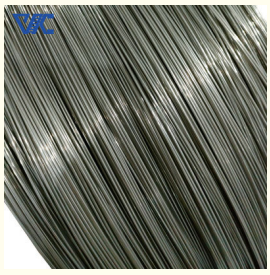
- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: type E
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Thermocouple wire are rolled on ABS white spool and packed with plastic film,in cartoon boxes.
  Special packaging requirements 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 E
- Temperature Range: -200~900°C
- EMF Tolerance: +/- 1.7C Or +/- 0.5%
- Diameter: 0.12-8mm
- Grade: IEC854-1/3
- Positive: Ni-Cr
- Negative: Cu-Ni
- Special Limits Of Error: +/- 1.0C Or 0.4%
- Color: Bright
- Application: Cable & Wire
- Highlight: **900 Degree Thermocouple Bare Wire**, **E Type Thermocouple Wire**, **E Types Thermocouple Bare Wire**



More Images



Our Product Introduction

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Product Description

Introduction:

Type E thermocouple bare wire is a commonly used thermocouple type used for temperature measurement and control. It is composed of nickel-chromium alloy (Chromel) and copper-nickel alloy (Constantan). Type E thermocouple bare wire is suitable for medium temperature ranges, typically measuring temperatures from -200°C to 900°C. This type of thermocouple has good linear characteristics and low drift, providing relatively accurate and stable temperature measurements.
E-type thermocouple bare wire is widely used in industrial control fields, including heating equipment, furnace temperature monitoring and heat treatment processes. It is also widely used in environmental monitoring, such as weather stations, greenhouses and warehousing environments. In scientific research and laboratories, E-type thermocouple bare wires are often used to measure sample temperature and conduct thermodynamic experiments.

Characteristic:

Thermocouple material: Type E thermocouple bare wire is composed of nickel-chromium alloy (Chromel) and copper-nickel alloy (Constantan). Chromel is the positive pole of the E-type thermocouple and Constantan is the negative pole.
Temperature range: Type E thermocouple bare wire is suitable for medium temperature ranges, typically measuring temperatures from -200°C to 900°C (-328°F to 1652°F).
Linear characteristics: E-type thermocouple bare wire has good linear characteristics within its operating temperature range and can provide relatively accurate temperature measurements.
Low drift: Type E thermocouple bare wire has low drift characteristics and can maintain relatively stable temperature measurements.

Advantage:

Widely used: Type E thermocouple bare wire is one of the most commonly used thermocouple types and is widely used in various industrial fields and laboratory environments.
Corrosion resistance: E-type thermocouple bare wire has good corrosion resistance to oxidizing and reducing gases, and is suitable for temperature measurement in some chemical industries and corrosive environments.
Fast response: E-type thermocouple bare wire has fast temperature response capability and can quickly reflect temperature changes.

Relevant specific parameters:

Temperature range: -200°C to 900°C (-328°F to 1652°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)
T	Copper (TP)	Cu-Ni (TN)
B	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	(British Standards) 4937.1041, EN 60584 - 1/2	(Norme Française) EN 60584 -1/2 - NFC 42323 - NFC 42324	(Japanese Industrial Standards) C 1602 - C 1610	(Unification of the Russian Specifications) 3044

Working temperature:

Diameter/mm	Long time Working temperature/°C	Short period Working temperature/°C
0.3,0.5	350	450
0.8,1.0,1.2	450	550
1.6,2.0	550	650
2.5	650	750
3.2	750	900

Using Occastion of Different Thermocouple			
Thermocouple Type		Working Atmosphere	Working Temperature
Type K	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℃
	EN	Oxidizing	
Type J	JP	Oxidizing(use in high temp)	-40 to +750℃
	JN	Reducing, Inert, Vacuum	
Type T	TP	Oxidizing,Vacuum	-200 to +350℃
	TN	Reducing, Vacuum	

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email:victory@dlx-alloy.com
Oem service:
Welcome customized size
We are experience factory for OEM&ODM service

Specific application areas:

Industrial control: E-type thermocouple bare wire is widely used in industrial control fields, including heating equipment, furnace temperature monitoring, heat treatment processes, etc.
Environmental monitoring: E-type thermocouple bare wire can be used for environmental temperature monitoring, such as weather stations, greenhouses and storage environments.
Laboratory research: E-type thermocouple bare wire is widely used in scientific research and laboratories for measuring sample temperature, thermodynamic experiments, etc.

Q&A:

What is the temperature range of Type E thermocouple bare wire?
Answer: The temperature range of Type E thermocouple bare wire is usually between -200°C and 900°C.

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

What applications are type E thermocouple bare wire suitable for?
Answer: E-type thermocouple bare wire is suitable for industrial control, environmental monitoring, scientific research and laboratory applications.

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