



Factory Wholesale High Quality Compensation Wire Thermocouple Extension Wire K E J S

Our Product Introduction

for more products please visit us on victory-alloy.com

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: K,N,E,J,T,B,R,S Types
- Minimum Order Quantity: 5
- Packaging Details: Spool package with Carton box, Coil package 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: Thermocouple Extension Wire
- Color: Bright
- Certificate: ISO9001
- Temperature Range: 32 To 392F (0 To 200C)
- EMF Tolerance: +/- 1.0C Or +/- .75%
- Grade: Extension Grade TPX/TNX
- Positive: Copper
- Negative: Cu-Ni
- Other Name: Copper-constantan Thermocouple
- Special Limits Of Error: +/- 0.5C Or 0.4%
- Highlight: **Copper Type T Thermocouple Extension Wire, Type T Thermocouple Extension Wire Bright, TP type t thermocouple wire**



More Images



Product Description

Our Product Introduction



THERMOCOUPLE EXTENSION & COMPENSATING WIRE

Customized service available

KPX/KNX K type thermocouple extension compensating wire cable

Thermocouple Wire Series(K,N,E,J,T,B,R,S)

There are multiple types and grades of thermocouple wire. Each type of thermocouple wire has a specific combination of metal alloys. This combination is what defines the type of thermocouple. Thermocouple grade wire is used to manufacture thermocouple probes. Thermocouple grade wire is normally used for the junction and inside the stem sheath.

In industrial installations where the recorder and control instruments are located remotely from the thermocouples, compensating cable or extension Cable must be used between the thermocouple and instrument to reduce costs.

Extension cables use the actual thermocouple materials. This is achieved by using cheaper insulations, wider tolerance alloys and thinner conductors. They are produced in multi-stranded forms for ease of installation. Calibration: NX , KX , EX , JX , TX Compensating cables use completely different alloys that happen to exhibit very similar thermo-electric properties up to a limited temperature (usually 250 °C).

Features:

- 1) Continuous use up to 200°C
- 2) Short term use up to 250°C
- 3) Excellent heat, chemical, abrasion and moisture resistance
- 4) Provides accurate temperature measure with high temperature stability
- 5) Calibration test report is available

Model explanation:

- 1 Calibration: Type K
- 2 Conductor insulation: FEP
- 3 Jacket insulation: FEP
- 4 Outer shield: Stainless steel braiding

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

Material	Type	Grade	Working temperature (deg)		Tolerance	Standard
			Long Term	Short Term		
NiCr-NiSi	K	1	-40~1100	-40~1300	±1.5 deg	GB/T 2614-199
		2			±2.5 deg	
NiCr-CuNi	E	1	-40~800	-40~900	±1.5 deg	GB/T 4993-199
		2			±2.5 deg	
Fe-Constantan	J	1	-40~600	-40~800	±1.5 deg	GB/T 4994-199
		2			±2.5 deg	
Cu-CuNi	T	1	-200~300	-200~400	±0.5 deg	GB/T 2903-199

Outer Sheath(mm)		core wire Dia.(mm)		Outer Sheath(mm) core wire Dia.(mm)			B Types
Out Dia	Wall Thickness	K,N,E,J,T Types	S,R,B Types	K,N Types	E,J,T Types	S,R Types	
0.5	0.05-0.10	0.08-0.12	...	SS304, SS321, SS316, SS310, INCL600	SS304, SS321, SS316, SS310	INCL600, INCL800	INCL600, INCL800
1.0	0.10-0.20	0.15-0.20	...				
1.5	0.15-0.25	0.23-0.30	...				
1.6	0.16-0.26	0.26-0.36	...				

2.0	0.25-0.35	0.40-0.50	0.25-.030
3.0	0.38-0.48	0.50-0.60	0.30-0.40
3.2	0.48-0.58	0.58-0.68	0.30-0.40
4.0	0.52-0.62	0.60-0.70	0.35-0.40
4.8	0.73-0.83	0.75-0.85	0.40-0.45
5.0	0.78-0.88	0.80-0.90	0.40-0.45
6.0	0.98-1.08	0.90-1.10	0.45-0.50
6.4	1.05-1.15	1.02-1.12	0.45-0.50
8.0	1.30-1.44	1.30-1.40	0.45-0.50
12.7	1.75-1.90	1.95-2.05	...

Calibration of thermocouple	Model number of Compensation cable	Alloy wire name of cable	Compensation
S or R	SC or RC	Cu-CuNi	
K	KC	Cu-CuNi	
	KX	NiCr-NiSi	
N	NC	Fe-CuNi	
	NX	NiCrSi-NiSiMg	
E	EX	NiCr-CuNi	
J	JX	Fe-CuNi	
T	TX	Cu-CuNi	

For more details, pls directly contact us.

Product Details

High-quality materials and surface treatment technology



Metallic Luster



Smooth Edges



Product Comparison

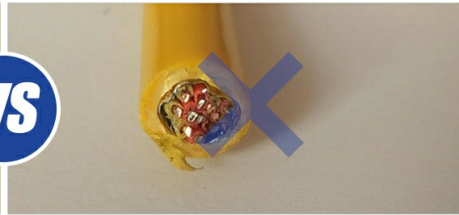
The quality of our products has been strictly tested and guaranteed



OTHERS



Smooth Edges



Uneven Edges



Product Quality Strict Inspection



Product Quality Is Not Up To Standard

Application Field

Thermocouple extension & compensating wires are widely used in many fields



Automated Industry



Equipment Monitoring



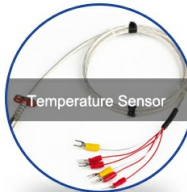
Metal Processing



Energy Industry



Chemical Industry



Temperature Sensor



Temperature Detection



Auto Industry

Thermocouple compensating wires, also known as thermocouple extension wires, are used in various industries to connect thermocouples to measuring instruments or control systems. They are designed to extend the signal from the thermocouple to a more convenient location for measurement or control. Some common areas of application for thermocouple compensating wires include:

1. **Industrial Processes:** Thermocouple compensating wires are widely used in industrial processes such as manufacturing, chemical processing, and power generation. They enable accurate temperature measurement and control in these environments.
2. **HVAC Systems:** Thermocouple compensating wires find application in heating, ventilation, and air conditioning (HVAC) systems for temperature sensing and control. They help maintain optimal indoor climate conditions.
3. **Furnaces and Kilns:** Thermocouple compensating wires are employed in high-temperature applications like furnaces, kilns, and ovens. They allow for temperature monitoring and control in these harsh environments.
4. **Automotive Industry:** Thermocouple compensating wires are used in the automotive sector for temperature sensing in engines, exhaust systems, and other critical components. They help optimize performance and ensure proper functioning.
5. **Aerospace and Aviation:** Thermocouple compensating wires find application in the aerospace and aviation industries for temperature measurement in aircraft engines, gas turbines, and other aerospace systems. They contribute to safe and efficient operation.
6. **Research and Development:** Thermocouple compensating wires are utilized in research laboratories and development facilities for accurate temperature measurement in experiments,

testing, and prototype development.

These are some of the common application areas for thermocouple compensating wires. Their role is to extend the thermocouple signal accurately and reliably, allowing for temperature measurement and control in various industries and environments.



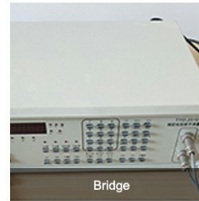
PRODUCT

Product Comparison

The quality of our products has been strictly tested and guaranteed



EMF Detection



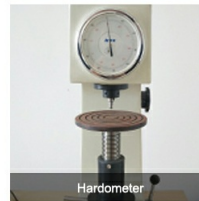
Bridge



Spectrometer



Alloy Analyser



Hardometer

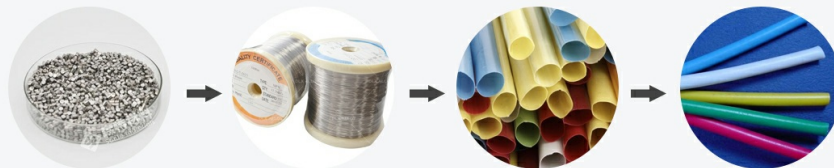


Fast Life Tester

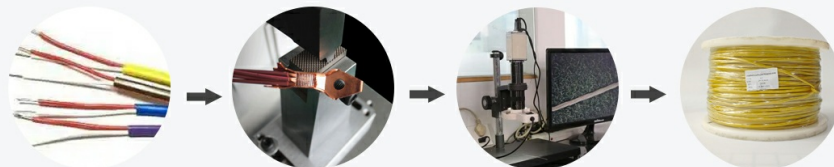
PRODUCT

Product Process

The production process and technology used in the product



1 Alloy Material Selection 2 Wire Preparation 3 Insulation Preparation 4 Insulation Manufacturing



5 Compensation Wire Assembly 6 Extension Lead Assembly 7 Detecting 8 Packing

Our Advantage

1. Market Leader

Top 5 in China's nonferrous metal industry

2. Flexible products

Thousands of product specifications, Meet multiple needs of buyers

3. Low MOQ

Can customize samples

4. Short production lead time

Fast delivery of whole cabinet

5. Professional inspection equipment

Before delivery, we will use spectrometers, tensile testers and other professional equipment to conduct a comprehensive inspection of the products to ensure that the goods are qualified for acceptance .

6. Professional business team

Quickly responds to customer inquiries, 24-hour professional quotation online The salesperson will follow the customer's

requirements for the use of the product, Professionally recommend more appropriate performance and price products to customers.

7. Intact packaging

Packaging according to customer needs. You can customize wooden boxes to ensure that the goods arrive at the

destination in good condition

8. Various payment methods

Facilitate customer payment

9. Get good reviews from customers

Old customers have long-term cooperation, The longest is more than 7 years
10. Received various awards
Google is very recognized by us, They give us awards every year.

OEM Services

We can provide customized services for customers

Product Customization

Size: Customized

We can customize thermocouple extension
& compensating wires of different size for customers.



Label Customization



We can provide label customization service for
customers' products.

OEM Services

We offer personalized customization services for both products and labels to meet the specific needs of our customers. We can provide products with different thicknesses and widths according to the customer's requirements. Whatever kind of customization service our customers need, we will do our best to meet their demands and ensure customer satisfaction.

Recommended Products

Click to learn more about related products



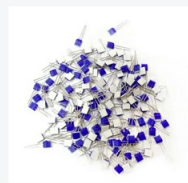
MI Thermocouple Cable



Thermocouple Wire



Thermocouple Sensor



Sensor Element



Thermocouple PCB Plug



Thermocouple Head



Changzhou Victory Technology Co., Ltd

+8619906119641

victory@dlx-alloy.com

victory-alloy.com

NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu