



MI Thermocouple Cable

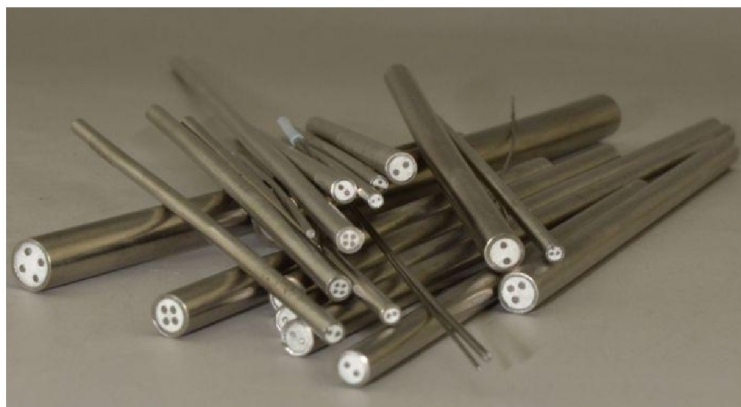
“Mineral insulated Thermocouple Cable”

Type:

- K type thermocouple
- N type thermocouple
- E type thermocouple
- J type thermocouple
- T type thermocouple

Conductor material:

- | | |
|----------|-------------|
| Ni Cr | Ni Si , |
| Ni Cr Si | Ni Si, |
| Ni Cr | Constantan, |
| Fe | Constantan, |
| Cu | Constantan, |



Insulator:

99.6% high purity MgO “Magnesium oxide”.

Core number:

- 2: Simplex
- 4: Duplex
- 6: Triplex

Sheath material:

- SS304,
- SS321,
- SS316,
- SS310,
- INCL600
- NICROBELL

Diameter (mm):

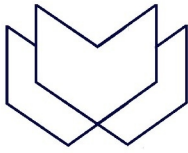
From 0.25mm to 12.7mm

Application:

Thermocouple and instrument machine

Place of Origin: China (Mainland)





Coding:

MIC **1** **2** **3** **4**

| | | |
|----------|----------|---------|
| 1 | S | Simplex |
| | D | Duplex |
| | T | Triplex |

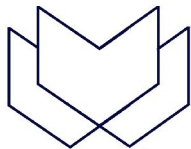
| | |
|----------|----------------------------|
| 2 | Thermocouple type : |
| | K N E J T |

| | |
|----------|--------------------------|
| 3 | Outer diameter mm |
|----------|--------------------------|

| | |
|----------|----------------------------------|
| 4 | Sheath material |
| | 304: SS304 |
| | 321: SS321 |
| | 316: SS316 |
| | 310: SS310 |
| | 600: INCL600 NICROBELL |

Type and sheath table:

| Product Name | Code | ype | Sheath Material | Outer dia.(mm) | Temperature |
|-------------------|------|-----|-----------------|----------------|-------------|
| Ni Cr - Ni Si | KK | K | SS304 | 0.5-1.0 | 400 |
| | | | SS321 | 1.5-3.2 | 600 |
| | | | SS316 | 4.0-8.0 | 800 |
| | | | | 0.5-1.0 | 500 |
| | | | SS310 | 1.5-3.2 | 800 |
| | | | INCL600 | 4.0-6.4 | 900 |
| | | | | 8.0-12.7 | 1000 |
| | | | NICROBELL | 4.0-6.4 | 900 |
| Ni Cr Si – Ni Si | NK | N | SS304 | 0.5-1.0 | 400 |
| | | | SS321 | 1.5-3.2 | 600 |
| | | | SS316 | 4.0-8.0 | 800 |
| | | | | 0.5-1.0 | 500 |
| | | | SS310 | 1.5-3.2 | 800 |
| | | | INCL600 | 4.0-6.4 | 900 |
| | | | | 8.0-12.7 | 1000 |
| | | | NICROBELL | 4.0-6.4 | 900 |
| Ni Cr- Constantan | EK | E | SS304 | 0.5-1.0 | 400 |
| | | | SS321 | 1.5-3.2 | 500 |
| | | | SS316 | 4.0-8.0 | 800 |
| Fe- Constantan | JK | J | SS304 | 1.0 | 300 |
| | | | SS321 | 1.5-3.2 | 500 |
| | | | SS316 | 4.0-8.0 | 800 |
| CU- Constantan | TK | T | SS304 | 1.0 | -200-100 |
| | | | SS321 | 1.5-3.2 | 100-200 |
| | | | SS316 | 4.0-8.0 | 100-350 |



Accuracy table:

| Name | Type | Class of Accuracy | | | | | |
|-------------------|------|-------------------|----------|----------------|----------|----------------|---------|
| | | I | | II | | III | |
| | | Tolerance | Temp. C | Tolerance | Temp. C | Tolerance | Temp. C |
| Ni Cr - Ni Si | K | 1.5°C or 0.4%t | -40~1000 | 1.5°C or 0.4%t | -40~1000 | 1.5°C or 0.4%t | -200~40 |
| Ni Cr Si – Ni Si | N | | -40~1000 | | -40~1000 | | -200~40 |
| Ni Cr- Constantan | E | | -40~ 800 | | -40~ 800 | | -200~40 |
| Fe- Constantan | J | | -40~ 750 | | -40~ 750 | | ----- |
| CU- Constantan | T | 1.5°C or 0.4%t | -40~ 350 | 1°C or 0.75%t | -40~ 350 | 1°C or 0.75%t | -200~40 |

Wall thickness table:

| Outer Sheath (mm) | | Core wire Dia. (mm) | Sheath Material | | Length(m) |
|-------------------|-------------|---------------------|----------------------------------------------------------------|--------------------------|-----------|
| Outer dia. | Wall thick. | For K,N,E,J, T type | For K,N type | For E,J, T type | |
| 0.5 | 0.05-0.10 | 0.08-0.12 | SS304, SS321, SS316, SS310, INCL 600, NICROBELL | SS304, SS321 SS316 | 500 |
| 1.0 | 0.10-0.20 | 0.15-0.20 | | | 300 |
| 1.5 | 0.15-0.25 | 0.23-0.30 | | | 200 |
| 1.6 | 0.16-0.26 | 0.26-0.36 | | | 200 |
| 2.0 | 0.25-0.35 | 0.40-0.50 | | | 180 |
| 3.0 | 0.38-0.48 | 0.50-0.60 | | | 80 |
| 3.2 | 0.48-0.58 | 0.58-0.68 | | | 75 |
| 4.0 | 0.52-0.62 | 0.60-0.70 | | | 70 |
| 4.8 | 0.73-0.83 | 0.75-0.85 | | | 40 |
| 5.0 | 0.78-0.88 | 0.80-0.90 | | | 40 |
| 6.0 | 0.98-1.08 | 0.90-1.10 | | | 30 |
| 6.4 | 1.05-1.15 | 1.02-1.12 | | | 30 |
| 8.0 | 1.30-1.44 | 1.30-1.40 | | | 20 |
| 12.7 | 1.75-1.90 | 1.95-2.05 | | | 10 |