

Special high temperature pure Nickel stranded wire for use in the wiring of heater bands. Glass insulation and fine stranding for flexibility and ease of installation. Widely approved and accepted. Good for applications to 400°C



Electrical Wiring Cable



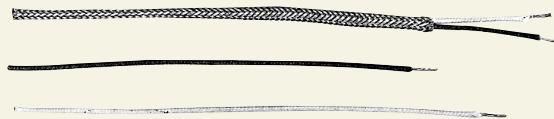
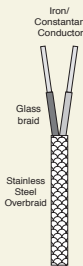
Special 3 core 10Amp Silicon covered cable for high temperature installations. Ideal for a tidy finish in exposed applications. Red Colour

per metre		
size	colour	Part no
1.5mm ² , 10A	red	315SC

American Wire Gauge

(#AWG)	Dia (inch)	Dia (mm)	Cross Sectional Area (mm ²)
8	0.129	3.26	8.36
9	0.114	2.91	6.63
10	0.102	2.59	5.26
11	0.0907	2.30	4.17
12	0.0808	2.05	3.31
13	0.0720	1.83	2.63
14	0.0641	1.63	2.08
15	0.0571	1.45	1.65
16	0.0508	1.29	1.31
17	0.0453	1.15	1.04
18	0.0403	1.02	0.82

rating	strands	strand dia	gauge	dia	Part no
5 AMPS	23	0.193	18	1.02	5A
10 AMPS	40	0.193	16	1.29	10A
15 AMPS	70	0.193	14	1.63	15A
20 AMPS	50	0.25	12	2.05	20A
25 AMPS	56	0.3	10	2.59	25A
30 AMPS	84	0.3	8	8.36	30A



20 Gauge stranded Type J and type K thermocouple wire. Same as used in premium thermocouples. ISA standard grade iron and constantan. Immediately available from stock in any quantity.

- Quality thermocouple cable. J or K type.
- Single core or Stainless Braided Twin Core

Thermocouple Wire



Technical Data

Thermocouple Wire

Temp. Range °C	Letter Designation	Tolerance
to 760°C	J	+/- 2.2°C 0.75%
to 1260°C	K	+/- 2.2°C 0.75%

Calibration tolerance does not include system error or installation error. Percentage error refers to specific temperature being measured and is based on reference junction at 0°C. These tolerance figures are presented as a guide for engineering and are not intended to serve as inspection standards.

Standard calibration temperatures are: +100°C, 204°C, 260°C, 427°C, 538°C, 816°C,

Nominal Resistance of Wire (loop)

Gauge AWG	J	K
14	8.625	14.66
16	13.71	23.30
18	21.80	37.07
20	35.69	28.97
24	87.66	149.0
26	139.4	237.0
28	221.6	376.8
30	352.0	598.4

Type	material	Insulation	colour	polarity	ref	Part no
Type J	Iron/Constantan (duplex conductor)	Double Glass braid with SS overbraid	TWIN	TWIN	THCBJ	IC1
	Iron +ve (single conductor)	Fiberglass	BLACK (UK), WHITE (US)	+VE	I2	I2
	Constantan -ve (single conductor)	Fiberglass	WHITE (UK), RED (US)	-VE	C3	C3
Type K	Chrome Alumel (duplex conductor)	Double Glass braid with SS overbraid	TWIN	TWIN	THCBK	NCN1
	Nickel Chromium +ve (single conductor)	Fiberglass	BROWN (UK)	+VE	NC1	NC1
	Alumel (Nickel/Aluminium) -ve	Fiberglass	BLUE (UK), WHITE (IS)	-VE	NA1	NA1

Thermocouple Wire Identification

TYPE J wire colouring

International Standard IEC584
U.K BS1843
Germany DIN43714
U.S. ANSI96.1
France NF C-42-323

Positive (+ve)	negative (-ve)
Black	White
Yellow	Blue
Red	Blue
White	Red
Yellow	Black

TYPE K wire colouring

International Standard IEC584
U.K BS1843
Germany DIN43714
U.S. ANSI96.1
France NF C-42-323

Positive (+ve)	negative (-ve)
Green	White
Brown	Blue
Red	Green
Yellow	Red
Yellow	Purple

