

Thermocouple Wire

Multiple Constructions Available; Common Constructions Listed Below



Thermocouple Wire Example Part Number

Cable Specification	Conductor AWG Size	Conductor Type	No. of Paired Conductors	Calibration Type	Insulation Material	Conductor Shielding	Overall Shielding	Jacket Material
THC	20		02	K	-	G		G

Calibration Type

Type	Wire Grade	Temperature Range	Standard Tolerance ⁰¹
J	Thermocouple	0°C - 750°C	± 2.2°C or ± 0.75%
K	Thermocouple	0°C - 1250°C	± 2.2°C or ± 0.75%
E	Thermocouple	0°C - 900°C	± 1.7°C or ± 0.50%
T	Thermocouple	0°C - 350°C	± 1.0°C or ± 0.75%
N	Thermocouple	0°C - 1250°C	± 2.2°C or ± 0.75%
S	Thermocouple	0°C - 1450°C	± 1.5°C or ± 0.25%
JX	Extension	0°C - 200°C	± 2.2°C
KX	Extension	0°C - 200°C	± 2.2°C
EX	Extension	0°C - 200°C	± 1.7°C
TX	Extension	0°C - 100°C	± 1.0°C
NX	Extension	0°C - 200°C	± 2.2°C
SX	Compensating Extension	0°C - 200°C	± 5.0°C

⁰¹ Use whichever tolerance is greater

Conductor Type

IEWC Code	Shielding
	Solid
S	Stranded

Conductor/Overall Shielding

IEWC Code	Shielding
	Unshielded
A	Aluminum/Polyester Tape
S	Steel Braid
IS	Interlocked Steel

Notes

- Jacket and conductor color codes per the table on 95

Alternative Constructions

- Special grade thermocouple

Insulation/Jacket Material

IEWC Code	Material
G	Fiberglass Braid
HG	High-Temp Fiberglass Braid
K	Polyimide (Kapton)
P	PVC
PFA	PFA
T	FEP
TF	PTFE Tape
TP	TPE

Applications

For use in aerospace & military, food processing, heating & cooling, manufacturing, oven & furnace, tool, appliance and industrial processing applications.