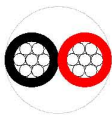


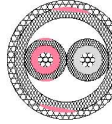

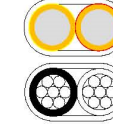
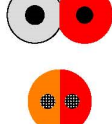
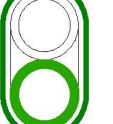







































































## Thermocouple Cables

Premier Hose Technologies offer a complete range of Thermocouple cables, fully meeting international standards or bespoke specifications to meet your specific requirements.

General Cable Constructions							
							
Twisted pairs	Screened and Jacketed	Composite Thermocouples	High Temperature, Armoured	Multi-pair Thermocouples	Flat twins	Single Shot	Twisted and Jacketed

## Thermocouple Standards

Thermocouple Type	Extension Cable	Compensating Cable	IEC	English	ANSI/ASTM	DIN	French	Japanese
								
K	KX							
		KCA						
		KCB						
T	TX							
J	JX							
N	NX							
		NC						
E	EX							
R	RX	RCA						
		RCB						
S	SX	SCA						
		SCB						
B	BX	BC						
L	LX							
U	UX							
			IEC60584	BS1843 BS4937	ANSI MC96.1 ASTM E230	DIN 43710	NF C 42-324	JIS C 1610

## Thermocouple Cable Types

Thermocouple Types	Material		Temperature Range	Tolerance	Temperature Range	Tolerance
	+ve	-ve	IEC 60584-2	IEC 60584-2	ANSI/ASTM	ANSI/ASTM
K	NICR	NIAL	-40°C to +1000°C	±1.5°C or 0.4%	0°C to +1260°C	±1.1°C or 0.4%
KX	NICR	NIAL	-25°C to +200°C	±1.5°C	0°C to +200°C	±1.1°C
KCA	Fe	CON	0°C to +150°C	±2.5°C	-	-
KCB	Cu	CON	0°C to +100°C	±2.5°C	-	-
T	Cu	CON	-40°C to +350°C	±1.5°C or 0.4%	0°C to +370°C	±0.5°C or 0.4%
TX	Cu	CON	-25°C to +100°C	±0.5°C	-60°C to +100°C	±0.5°C
J	Fe	CON	-40°C to +750°C	±1.5°C or 0.4%	0°C to +760°C	±1.1°C or 0.4%
JX	Fe	CON	-25°C to +200°C	±1.5°C	0°C to +200°C	±1.1°C
N	NICS	NIS	-40°C to +1000°C	±1.5°C or 0.4%	0°C to +1260°C	±1.1°C or 0.4%
NX	NICS	NIS	-25°C to +200°C	±1.5°C	0°C to +200°C	±1.1°C
NC	NICS	NIS	0°C to +150°C	±2.5°C	-	-
E	NICR	CON	-40°C to +800°C	±1.5°C or 0.4%	0°C to +870°C	±1.0°C or 0.4%
EX	NICR	CON	-25°C to +200°C	±1.5°C	0°C to +200°C	±1.0°C
R	PTRH13%	PT	0°C to +1600°C	±1.0°C or *	0°C to +1480°C	±0.6°C <sub>B</sub> or 0.1%
RX	Cu	CUPRON	-	-	0°C to +200°C	±5.0°C
RCA	Cu	CUPRON	0°C to +100°C	±2.5°C	-	-
RCB	Cu	CUPRON	0°C to +200°C	±5.0°C	-	-
S	PTRH10%	PT	0°C to +1600°C	±1.0°C or *	0°C to +1480°C	±0.6°C <sub>B</sub> or 0.1%
SX	Cu	CUPRON	-	-	0°C to +200°C	±5.0°C
SCA	Cu	CUPRON	0°C to +100°C	±2.5°C	-	-
SCB	Cu	CUPRON	0°C to +200°C	±5.0°C	-	-
B	PTRH30%	PTRH6%	-600°C to +1700°C	0.25%	870°C to +1700°C	±0.25%
BX	-	-	-	-	0°C to +200°C	±4.2°C
BC	Cu	Cu	0°C to +100°C	±4.2°C	-	-
L	Fe	CON	0°C to +900°C	±3.0°C or 0.75%	-	-
LX	Fe	CON	0°C to +200°C	±3.0°C	-	-
U	Cu	CON	0°C to +600°C	±3.0°C or 0.75%	-	-
UX	Cu	CON	0°C to +200°C	±3.0°C	-	-

*	± [1 + 0.003 (t - 1100)]°C
CON	Constantan (Copper-Nickel)
Cu	Copper, either Plain, or Silver/Tin/Nickel plated
CUPRON	Cupronic or Cupronic 12 (Copper alloy – low nickel content)
Fe	Iron (Thermocouple grade)
NIAL	Nickel Aluminium (Aluminium-Nickel, Alumel)
NICR	Nickel Chromium (Nichrome, Chromium-Nickel, Chromel)
NICS	Nicosil (Nickel-Chromium-Silicon)
NIS	Nisil (Nickel-Silicon-Magnesium)
PT	Platinum
PTRH6%	Platinum + 6% Rhodium
PTRH10%	Platinum + 10% Rhodium
PTRH13%	Platinum + 13% Rhodium
PTRH30%	Platinum + 30% Rhodium