



Proudly Manufacturing In Australia

# TEMPERATURE °CONTROLS PTY LTD

## SPECIALISTS IN INDUSTRIAL TEMPERATURE MEASUREMENT



REF: #1514

### THERMOCOUPLE COLOUR CODE CONNECTION CHART

CODE	EXTENSION/COMPENSATING CABLE COLOURS				THERMOCOUPLE MATERIALS	
	AMERICAN TO ANSI / MC 96.1	INTERNATIONAL IEC 584-3	GERMAN TO DIN 43714	JAPAN JIS C 1610 (1995)	POSITIVE CONDUCTOR	NEGATIVE CONDUCTOR
<b>K</b>					<b>NICKEL CHROMIUM</b> Also Known as Chromel KP or Ni-Cr	<b>NICKEL ALUMINIUM</b> Also known as Alumel, KN or Ni-Al (Magnetic)
<b>V</b>					<b>COPPER</b>	<b>COPPER-NICKEL</b> Also known as Constantan
<b>T</b>					<b>COPPER</b>	<b>COPPER-NICKEL</b> Also known as Constantan
<b>J</b>					<b>IRON</b> Also known as Fe (Magnetic)	<b>COPPER-NICKEL</b> Also known as Constantan
<b>E</b>					<b>NICKEL CHROMIUM</b> Also Known as Chromel KP or Ni-Cr	<b>COPPER-NICKEL</b> Also known as Constantan
<b>N</b>					<b>NICKEL-CHROMIUM-SILICON</b> Also known as Nicrosil	<b>NICKEL-CHROMIUM-MAGNESIUM</b> Also known as Nisil (Lightly Magnetic)
<b>R</b>					<b>PLATINUM / 13% RHODIUM</b>	<b>PLATINUM</b>
<b>S</b>					<b>PLATINUM / 10% RHODIUM</b>	<b>PLATINUM</b>
<b>B</b>					<b>PLATINUM / 30% RHODIUM</b>	<b>PLATINUM / 6% RHODIUM</b>

#### TEFLON / TEFLON

Chemical / Moisture Resistant

Maximum 260°C

#### KAPTON / KAPTON

Abrasion / Chemical & Moisture Resistant

Maximum 315°C

#### FIBREGLASS / FIBREGLASS

Heat Treating and Aluminium Plant use

Maximum 540°C

#### FIBREGLASS / FIBREGLASS STAINLESS STEEL OVERBRAID

Improved abrasion Resistance

Maximum 540°C

#### REFRASIL / REFRASIL

Heat Treating and Furnace Survey Thermocouples

Maximum 1095°C

**PVC / PVC**  
General Purpose  
Maximum 105°C

**PVC / SCREEN / PVC**  
Prevent induced voltages from power cables with screen and drain wire  
Maximum 105°C

**MULTIPAIR PVC / SCR / PVC**  
Individual Pairs and Overall Screening Prevent induced voltages from power cables with screen and drain wire  
Maximum 105°C

**MULTIPAIR PVC / SCR / SWA**  
Individual Pairs and Overall Screening with Served Wire Armour Suitable for use in Hazardous Areas Ex d and Ex e  
Maximum 105°C

Autoclave Cable Teflon Insulation is bonded onto Solid Conductor to provide seal

PVC Figure 8 RipCord cable with Solid Conductors

#### Solid Conductors

- 32 AWG
- 30 AWG
- 24 AWG
- 20 AWG
- 16 AWG

#### Stranded Conductors

- 7 x .2 mm
- 7 x .3 mm
- 14 x .2 mm
- 24 x .2 mm
- 48 x .2 mm

Cables and Connectors Available Ex Stock

