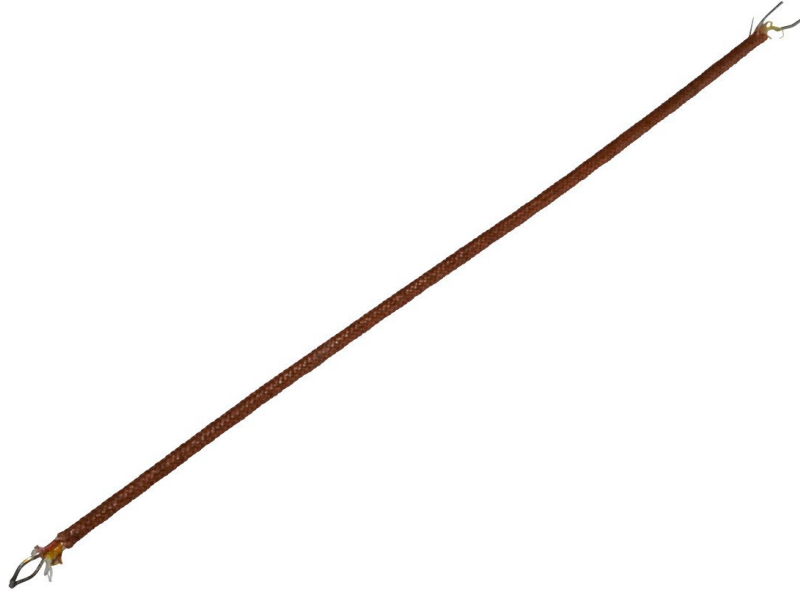


# Thermocouple

## Temperature Sensor



**HL4030-001 Copper / Constantan Junction**

### Description:

A '**Thermocouple**' is a device that will generate a small voltage when heated. Two wires, each of a different material, are twisted and bonded together by welding.

When this junction of the two different metals is heated, a voltage is created at the junction. Since this voltage changes with the temperature, they can be connected to instruments that can be calibrated in degrees and are therefore used for the measurement of high temperatures.

There are several types of thermocouples which use different materials to suit the temperatures involved which can be as high as several thousand degrees Centigrade in ovens, furnaces, kilns and so on.

This thermocouple is a bonding of copper and constantan (60/40% copper/nickel alloy), the two wires are about 200mm long, are insulated in a woven glass sleeving and are held together in a slightly larger glass sleeving.

Physical Size: 200mm Long	Weight: 3g
---------------------------	------------

Designed and Manufactured in Australia

**INDUSTRIAL EQUIPMENT & CONTROL PTY.LTD.**

61-65 McClure St. Thornbury. 3071 Melbourne. Australia

Tel: 61 (0)3 9497 2555 Email: [iec@iecpl.com.au](mailto:iec@iecpl.com.au) [www.iecpl.com.au](http://www.iecpl.com.au)