

Thermocouple Wire and Thermocouple Extension Wire



- ◆ **Insulated Thermocouple and Extension Wire Insulation Types** — See Page 14-104
- ◆ **Thermocouple Wire and Extension Grade Thermocouple Wire Color Codes** — See Pages 14-105 and 14-106
- ◆ **Thermocouple Grade Wire** — See Pages 14-107 through 14-109
- ◆ **Thermocouple Extension Grade Wire** — See Pages 14-110 and 14-111
- ◆ **Coil Cords and RTD Wires** — See Page 14-112

Using Thermocouple Extension Wire

Thermocouple extension wire is often used to make the connection between the thermocouple and the measuring instrument, especially when long distances are involved, due to its cost advantage. Thermocouple extension wire has approximately the same characteristics as thermocouple wire but its accuracy is guaranteed over a more limited range of temperatures.

For base metal thermocouples, extension wire is of essentially the same composition as the corresponding thermocouple wire. Because of the high cost of noble metals, noble metal thermocouple extension wires are made from alloys that match the noble metal thermocouple characteristics.



Note: Thermocouple Extension Wire should never be used in place of thermocouple wire as the actual sensor because it will not generate accurate temperature information.

Protective Wraps for Thermocouple Wire and Thermocouple Extension Wire

Many of the insulated thermocouple wire and extension wire constructions listed on the following pages are available with the following two wraps as an option.



Stainless Steel or Tinned Copper Overbraid



Stainless Steel Wrap