

Thermocouple and Thermocouple Extension Wire

Construction

Thermocouple Wire

Conductor material determined by the thermocouple type. Teflon insulated and jacketed parallel constructions. Teflon Thermocouple Wire is inert to chemical attack and is flame retardant. Thermocouple Wire is made to a certain requirement as defined by the National Bureau of Standards. These standards designate temperature versus voltage levels for certain thermocouple types.

Thermocouple Extension Wire

Conductor material determined by the Thermocouple extension wire type. FEP teflon or PVC insulated with FEP teflon or PVC jacket. CL3/PLTC multipair thermocouple extension cables contain a 22 AWG (7x30) bare copper orange PVC insulated communication wire.



PVC insulation/PVC jacketed cable specifications:

- UL Subject 13
- UL 1685 Vertical Tray Flame Test
- NEC® Type PLTC Listed, approved for cable tray use in Class 1, Division 2, hazardous areas and non-hazardous areas, cable trays, raceways, conduit and supported by messenger wires

FEP insulated/FEP jacketed cable specifications:

- UL Subject 13
- UL 910 Steiner Tunnel Flame Test
- NEC® Type CL3P/PLTC Listed, approved for use in ducts, plenums and other space used for environmental air

Applications

Unshielded

Parallel non-shielded extension wire may be utilized in low-noise environments when recommended by the instrument manufacturer.

Overall Shield

Recommended for use in applications where signals in excess of 100 millivolts are transmitted except in areas where high voltage and current sources create excessive noise interference.

Individually Shielded

Individually shielded pairs are recommended for use in applications where optimum noise rejection is required. Individual pair shields are fully isolated from each other and contain a separate drain wire for grounding to provide maximum protection from crosstalk and common mode interference.

See referenced page in the Hardware & Supplies section:

Suggested Prep Tool

- 721 Multi-Wire Stripper/Cutter - I-9