

Resistance Temperature Detectors Encapsulated In Mineral Insulated Cable

Standard available sheaths: 316 SST, 310 SST, 304 SST and alloy 600

Standard sheath diameters for single RTD: .375", .313", .250", .236", .188", .125", and .092"

Standard sheath diameters for duplex RTD: .375", .313", .250", .236" and .188"

Standard insulation materials: Compacted MgO in either 96.4% minimum purity or high purity of 99.4% minimum

Standard conductors: High purity nickel, Constantan, or nickel clad copper

Standard number of conductors: 3 wire, 4 wire, 6 wire, or 8 wire

Standard element: Wire wound Platinum alloy, 100 ohm @ 0°C, Alpha value of .00385 with a tolerance of +/- 0.1% at 0°C (band 1). Specification DIN 43760-1980 BS 1904 and IEC 751:1983.

Standard terminations:

- Quick connect 3 pin male plug or dual plugs. Matching jacks are also available.
- Epoxy filled transition to flexible lead wire, with or without spade lugs.
- Stainless steel hex fittings available in 1/2" male NPT in spring loaded or brazed to sheath designs.
- Many other end terminations are also available.

Additional information:

- Bendable throughout the full length except within 2" of the sensing tip
- Insulation resistance > 100 megohms at 50 VCD minimum at room temperature
- Wide wire spacing allows for insertion of a wire wound RTD element
- Temperature range: -200° to 600°C with the highest accuracy obtained between -50° to 600°C
- Vibration resistance: 30g over a frequency range of 1 to 10 Hz
- Collapsing pressure: 5,000 psi up to 200°C
- Additional sheath materials, sizes and other options available upon request

