

Thermocouples/RTD

Quick Disconnect Assemblies



| Specifications | |
|---------------------|--|
| 316 Stainless Steel | Best corrosion resistance of the stainless steel grades. Good corrosion resistance in H ₂ S. Subject to damaging carbide precipitation. 900° - 1600°F (482° - 871°C) range. |
| Ungrounded Junction | This type of thermocouple junction is fully insulated from the welded sheath end. The ungrounded junction is excellent for applications where stray EMFs would affect the reading and for frequent or rapid temperature cycling. Response time is 2.5 seconds. |
| Forming | The XACTPAK [®] sheath can be formed around a mandrel twice the sheath diameter. |

Ordering Information

| Type | ANSI Color Code | Max. Operating Temperature | Catalog No. |
|------|-----------------|----------------------------|-------------|
| J | Black | 1500°F | 21238 |
| K | Yellow | 1600°F | 21239 |

Note: All selections include standard plug and jack connectors

Metal Transition Assemblies

Rugged metal transition assemblies with 12" stainless steel probe and 48" lead wire.



Ordering Information

| Type | ANSI Color Code | Max. Operating Temperature | Catalog No. |
|------|-----------------|----------------------------|-------------|
| J | Black | 1500°F | 21242 |
| K | Yellow | 1600°F | 21243 |
| RTD | White | 1200°F | 21244 |

Insulated Soft Wire

Soft-wire thermocouples are in two insulation types. All soft-wire selections have beaded butt welded measurement junctions.



| Type | Temperature Rating | | Physical Properties | | |
|---------------------|--------------------|----------------|---------------------|---------------------|---------------------|
| | Continuous | Single Reading | Abrasion Resistance | Moisture Resistance | Chemical Resistance |
| Glass Braid | 900°F (482°C) | 1000°F (538°C) | Fair | Good | Good |
| Teflon [®] | 400°F (204°C) | 500°F (260°C) | Excellent | Excellent | Excellent |

Ordering Information

| Catalog No. | Description |
|-------------|--|
| THJ105 | T/C J, 24 Gauge, Fiber Glass Braid, 5 foot |
| THJ1015 | T/C J, 24 Gauge, Fiber Glass Braid, 15 foot |
| THK105 | T/C K, 24 Gauge, Fiber Glass Braid, 5 foot |
| THK1015 | T/C K, 24 Gauge, Fiber Glass Braid, 15 foot |
| THJ035 | T/C J, 20 Gauge, FEP Teflon [®] , 5 foot |
| THJ315 | T/C J, 20 Gauge, FEP Teflon [®] , 15 foot |

Compression Fitting

This adjustable fitting can be applied at any point along the sheath. It is used to mount a thermocouple assembly at a given depth, or to mount a thermocouple head on an assembly.



Ordering Information

| Single Threaded | | Sheath O.D. Inches | Bore ± 0.001 Inches | Male NPT Inches | Hex Across Flats Inches |
|-----------------|-----------|--------------------|---------------------|-----------------|-------------------------|
| Catalog No. | Length | | | | |
| 21253 | 1 - 1/4 " | 3/16 | 0.194 | 1/8 | 1/2 |