

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
THJ0315	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

Mouser Electronics

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