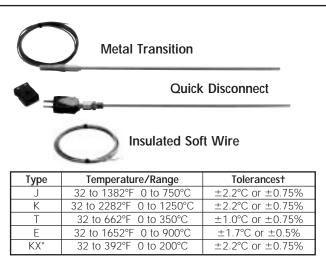
Accessories



Thermocouples/RTD

- Quick Disconnect Thermocouple Assemblies 316 SS-Ungrounded Junction
- Rugged Metal Transition Thermocouple/RTD Assemblies with Teflon Coated Lead Wire
- Flexibility of XACTPAK® Material
- Thermocouple Insulated Softwire Standard Lengths
- ANSI Color Coded Thermocouple Connectors with Exclusive Channel Design
- Adjustable Compression Fittings



*Extension Wire-Type For Fahrenheit, multiply tolerance in °C by 1.8.

other MI thermocouples, the flexibility of the XACTPAK®

material allows you to bend the thermocouple without risk of

cracking. Lightweight, rugged, and accurate, Simpson's

standard connectors isolate all wire for clean, strong signals.

In addition, adjustable compression fittings are offered to set

immersion length in the field. All thermocouples meet

Standard Tolerances per ANSI MC96.1-1982. For thermo-

electric voltage information please refer to the following

Simpson has expanded its line of temperature accessories by adding soft-wire thermocouples, mineral-insulated (MI) temperature assemblies, connectors and compression fittings. Soft wire thermocouples are available in five insulation types and varying gauge sizes to satisfy a wide range of temperature requirements. Metal transition thermocouple/RTD assemblies feature ANSI color coded plug and jack connectors for easy connection, saving you time and allow extra protection against frequent bending and twisting. Each MI probe is manufactured with XACTPAK®. Unlike

- Quick Disconnect Assemblies -



Quick disconnect thermocouple assemblies are fast-reading, durable, and capable of handling higher temperatures than uninsulated types. The compacted XACTPAK® MI insulation further enhances the sensors ability to "read" temperature by transferring heat quickly to the measuring junction while it protects the thermocouple from moisture and thermal shock. The 12 inch, 3/16 inch in diameter thermocouple probe has an ungrounded junction and is made of 316 stainless steel.

Specifications 316 Stainless Steel	Best corrosion resistance of the austenitic stainless steel grades. Good corrosion resistance in H2S. Subject to damaging carbide precipitation 900°-1600°F (482°-871°F) range.
Ungrounded Junction	This type of thermocouple junction is fully insu- lated from the welded sheath end. The ungrounded junction is excellent for applica- tions where stray EMFs would affect the read- ing 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 without damage.

Ordering Information

pages.

	5		
		Max. Operating	Catalog
Туре	ANSI Color Code	Temperature	Number
J	Black	1500°F	21238
К	Yellow	1600°F	21239

Note: All selections include standard plug and jack connectors.

Accessories

Compression Fittings

These adjustable fittings can be applied at any point along the sheath. They are used to mount a thermocouple assembly at a given depth, or to mount a thermocouple head on an assembly.

Single Threaded		Sheath O.D.	Bore ± 0.001	Male NPT	Hex Across
Catalog#	Length	Inches	Inches	Inches	Flats Inches
21253	1-1/4″	3/16	0.194	1/8	1/2

Metal Transition Assemblies



Metal transition thermocouple/RTD assemblies are offered in J, K, and Platinum 100 RTD calibrations. They provide maximum temperature measurements of 1650°F (900°C), for excellent corrosion resistance. The probe includes 48 inches of FEP Teflon® coated thermocouple wire and stripped leads. The coiled spring strain relief protects the wire against sharp bends in the transition area. All insulation resistance for RTD values meet DIN 0.00385 standard tolerance class B.

Specifications 316 Stainless Steel	Best corrosion resistance of the stainless steel grades. Good corrosion resistance in H2S. Widely used in the food and chemical industry. Subject to damaging carbide pre- cipitation 900°-1600°F (482°-871°F) range.
Ungrounded Junction	This type of thermocouple junction is fully insulated from the welded sheath end. The ungrounded junction is excellent for applica- tions where stray EMFs would affect the reading and for frequent or rapid tempera- ture cycling. Response time is 2.5 seconds.
Maximum Continuous Operating Temperature	Epoxy rated at 300°F (150°C) for the transition.

Ordering Information

Туре	ANSI Color Code	Max. Operating Temperature	Catalog Number
J	Black	1500°F	21242
K	Yellow	1600°F	21243
RTD	White	1200°F	21244

Accessories

Compression Fittings

Mounting fittings can be applied at any point along the sheath. They are used to mount a thermocouple assembly at a given depth, or to mount a thermocouple head on an assembly. The compression fittings are adjustable types.

Single Threaded		Sheath O.D.	Bore ± 0.001	Male NPT	Hex Across
Catalog#	Length	Inches	Inches	Inches	Flats Inches
21253	1-1/4"	3/16	0.193	1/8	1/2

Quick Disconnect Assemblies



Soft-wire thermocouple are available in five insulation types and in varying gauge sizes. All soft wire selections have beaded butt welded measurement junctions. For cold junction terminations, standard thermocouple selections have eye terminal ($1/4^{"}$ screw size) for use with analog meters. Custom thermocouple have solid bare wire.

Specifications

	Temperatur	e Rating	Physical Properties		
		Single	Abrasion	Moisture	Chemical
Туре	Continuous	Reading	Resistance	Resistance	Resistance
Glass	900°F	1000°F	Fair	Good	Good
Braid	(482°C)	(538°C)	Fair	Good	Good
Glass	900°F	1000°F	Fair	Good	Good
Braid	(482°C)	(538°C)	Fair	Good	Good
Double	900°F	1000°F	Foir	Cood	Cood
Glass	(482°C)	(538°C)	Fair	Good	Good
Wrap					
Teflon®	400°F	500°F	Excellent	Excellent	Excellent
	(204°C)	(260°C)	EXCOLORI	EXCOLOTI	Execution
High Temp.	1300°F	1600°F	Good	Good	Good
Braid	(704°C)	(871°C)	5500	0000	5000

Ordering Information Standard

Standard	
Cat. 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
THI1015	T/C K, 24 Gauge, Fiber Glass Braid, 15 foot
THJ035	T/C J, 24 Gauge, FEP Teflon®, 5 foot
THJ315	T/C J, 24 Gauge, FEP Teflon [®] , 15 foot

® Trade name of E.I. Dupont de Nemours & Co.