THERMOCOUPLE STEM ASSEMBLY WITH TRANSITION

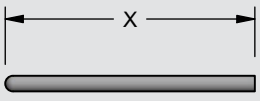
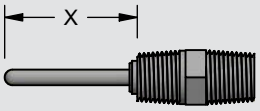
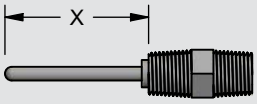
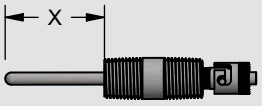
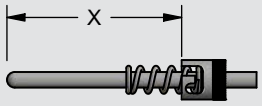
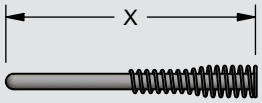
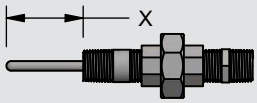
Reotemp Thermocouple Stem Assemblies with Transitions come with a variety of extension cables and adjustable fittings to function in many different applications. Transitions are perfect for scenarios where cables are being laid over a long distance. The armored cable helps protect and insulate thermocouple wire where the hookup or transmitter is farther away from the stem.

Made in USA

BUILD YOUR STEM ASSEMBLY: Choose options to build a part number. For example: AM25J1SG12-LJ2A36T2SA6-TS

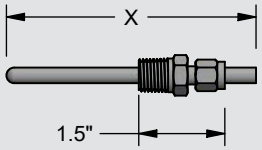
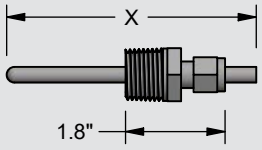
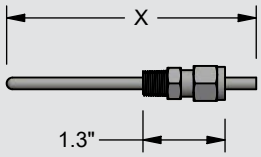
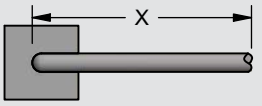
A | **[ ]**

STYLE

A	 Plain Stem (Lead Assembly)	H	 Spring Loaded Bushing
B	 Welded SS Bushing	P	 1/2" NPT Nipple w/ Bayonet
R	 Bayonet Cap w/ Spring	S	 Load Spring Only
4T	 5" Nominal Spring Loaded N-U-N 316SS		

STEM OPTION STYLES (OPTIONAL)

Leave blank for no stem option.

T*	 1/4" NPT Sliding Compression Fitting Loose On Plain 316SS Stem	U*	 1/2" NPT Sliding Compression Fitting Loose On Plain 316SS Stem
V*	 1/8" Compression Fitting Loose on Plain 316SS Stem	W	 Weld Pad, 1"x1"x1/8"

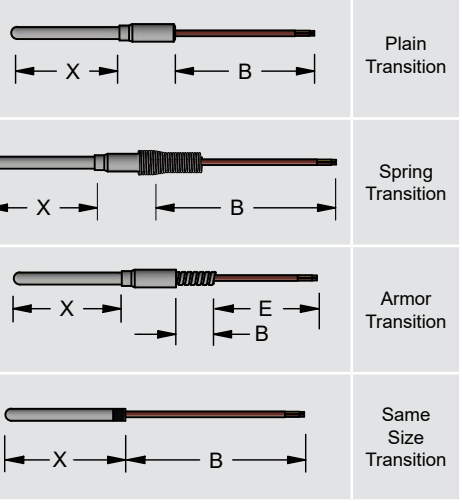
*These fittings decrease usable stem length by the length of the fitting as pictured above. Add the fitting size to the required stem length or your stem may be short.

M | **25** | **J** | **1** | **S** | **G** | **12**

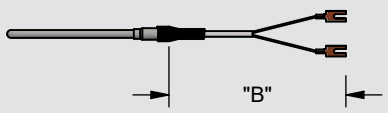
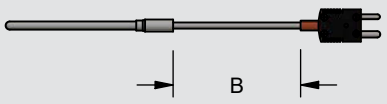
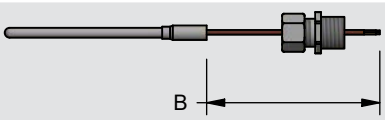
METAL SHEATHED	SHEATH DIAMETER	THERMOCOUPLE TYPE	TYPE OF SHEATH MATERIAL	NUMBER OF ELEMENTS	TYPE OF JUNCTION	STEM LENGTH "X"
M = Metal Sheathed Thermocouple	**06** = 0.062 in. **12** = 0.125 in. **18** = 0.188 in. **25** = 0.250 in. **37** = 0.375 in.	**J** = Type J **K** = Type K **E** = Type E **T** = Type T **JS** = Type J Special Limits of Error **KS** = Type K Special Limits of Error **ES** = Type E Special Limits of Error **TS** = Type T Special Limits of Error	**1** = 316 Stainless Steel **2** = 310 Stainless Steel **3** = 304 Stainless Steel **5** = Inconel 600	**S** = Single Element Assembly **D** = Dual Element Assembly	**G** = Grounded **U** = Ungrounded **E** = Exposed **UU** = Ungrounded Uncommon	**??** = Stem Length in Inches

THERMOCOUPLE STEM ASSEMBLY WITH TRANSITION

-L	J	2	A	36
LEAD WIRE	THERMOCOUPLE TYPE	NUMBER OF LEADS	TRANSITION TYPE	LEAD OR ARMOR LENGTH "B"
-L = Lead Wire	J = Type J K = Type K E = Type E T = Type T *For thermocouple accuracy information see page 5.* *For thermocouple temperature operating ranges see page 6.*	2 = Single Thermocouple 4 = Duplex Thermocouple	P = Plain Transition S = Spring Transition A = Armor Transition L = Same Size Transition	?? = Insert "B" Length in Inches (See diaphragm to left or below.)



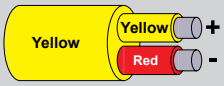
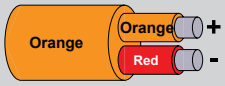
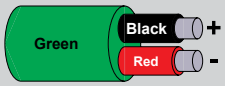
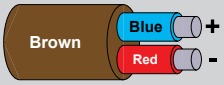
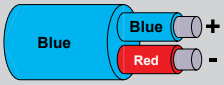
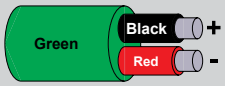
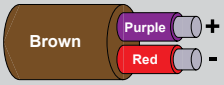
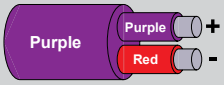
T2	S	[A]	[6]	[-TS]
INSULATION /CONDUCTOR	WIRE TERMINATION	WIRE PROTECTION (OPTIONAL)	WIRE EXTENSION "E" (OPTIONAL)	OPTIONS
T1 = Teflon, Solid F1 = Fiberglass, Solid T2 = Teflon, Stranded F2 = Fiberglass, Stranded (J&K Only) P1 = PVC, Solid	P = Plain Leads (Not Stripped) S = Stripped Leads L = Spade Lugs T = Terminal Pins F = Standard Male Plug C = Mini Male Plug R = Cord Grip 1/2" NPT Note: For mating connection use code "MC", ie "C-MC" or "F-MC".	*Omit if No Armor* A = Stainless Steel Armor P = PVC Coated Stainless Steel Armor T = Teflon Coated Stainless Steel Armor O = Stainless Steel Overbraid	?? = "E" Length in Inches, Wire Extension Beyond Armor, Required if Armor or Overbraid is Chosen	-TS = Stainless Tag -R1 = One Point Calibration Certification (Reotemp Chooses Point) -R3 = Three Point Calibration Certification (Reotemp Chooses Points) *For additional options see page 151.* *For thermowells see pages 144-150.*

Spade Lugs	L	
Standard Male Plug	F	
Cord Grip 1/2" NPT	R	

Wire Extension Beyond Armor or Overbraid

REFERENCE INFORMATION

THERMOCOUPLE WIRE COLOR CODES (U.S.A. ANSI)

	Thermocouple Grade	Extension Grade	Plug/Jack		Thermocouple Grade	Extension Grade	Plug/Jack
K			Yellow	N			Orange
J			Black	S	None Established		Green
T			Blue	R	None Established		Green
E			Purple	B	None Established		White

THERMOCOUPLE & RTD ACCURACIES

	Type K	Type J	Type T	Type E	Type N	Type S	Type R	Type B	RTD Class B	RTD Class A
-328°F	*	–	*	*	–	–	–	–	± 2.34°F	± 2.34°F
-148°F	*	–	*	*	–	–	–	–	± 1.44°F	± 1.44°F
32°F	± 3.96°F	± 3.96°F	± 1.8°F	± 3.06°F	± 3.96°F	± 2.7°F	± 2.7°F	–	± 0.54°F	± 0.27°F
392°F	± 3.96°F	± 3.96°F	± 2.7°F	± 3.06°F	± 3.96°F	± 2.7°F	± 2.7°F	–	± 2.34°F	± 0.99°F
752°F	± 5.4°F	± 5.4°F	–	± 3.6°F	± 5.4°F	± 2.7°F	± 2.7°F	–	± 4.14°F	± 4.14°F
1112°F	± 8.1°F	± 8.1°F	–	± 5.4°F	± 8.1°F	± 2.7°F	± 2.7°F	–	± 5.94°F	± 5.94°F
1472°F	± 10.8°F	–	–	± 7.2°F	± 10.8°F	± 3.6°F	± 3.6°F	–	–	–
1832°F	± 13.5°F	–	–	–	± 13.5°F	± 4.5°F	± 4.5°F	± 9°F	–	–
2192°F	± 16.2°F	–	–	–	± 16.2°F	± 5.4°F	± 5.4°F	± 10.8°F	–	–
2552°F	–	–	–	–	–	± 6.3°F	± 6.3°F	± 12.6°F	–	–
2912°F	–	–	–	–	–	–	–	± 14.4°F	–	–

Note: The accuracies in the above table are estimates given at fixed points, they do not apply to temperature ranges and are intended only as examples to give a general idea of what can be expected. Consult Reotemp if a specific accuracy is required or to confirm accuracies at any points not listed in the above table.
*Thermocouples are normally supplied to meet the tolerances specified in the table for temperatures above 32°F. The same materials, however, may not fall within the tolerances for temperatures below 32°F. If materials are required to meet the tolerances stated for temperatures below 32°F, contact Reotemp sales.

Looking for better accuracy?

Hi-Accuracy™

Reotemp offers **RTDs** up to 5x more accurate than Class B RTDs with the Hi-Accuracy™ option.

Thermocouples up to 2x more accurate with the Special Limits of Error option.

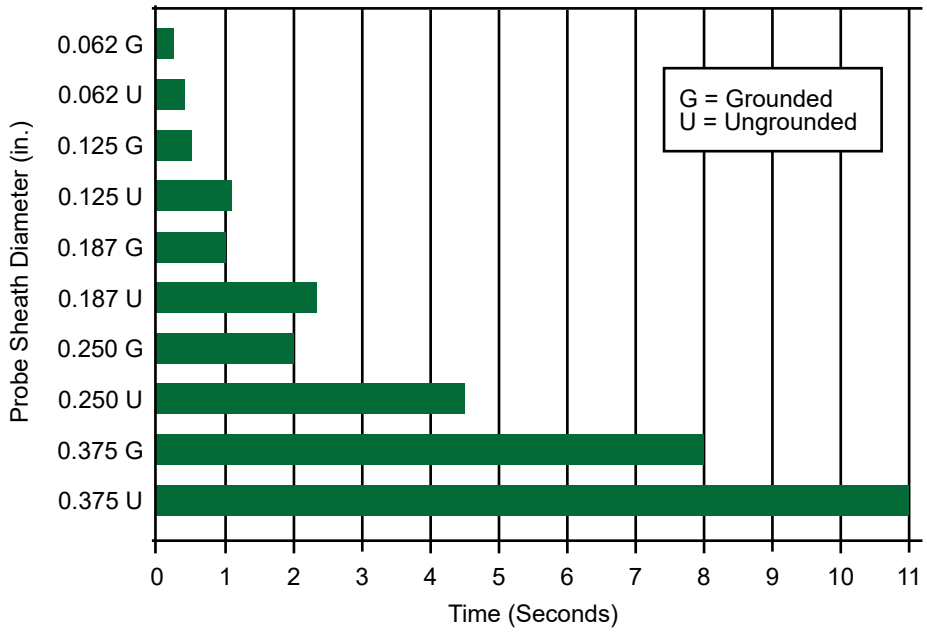
REFERENCE INFORMATION

THERMOCOUPLE TEMPERATURE OPERATING RANGES

Type	Minimum Temp. °F	Maximum Temp. °F
K	-328	2300
J	32	1400
T	-328	700
E	-328	1600
N	32	2300
S	32	2700
R	32	2700
B	1600	3100

THERMOCOUPLE TYPICAL RESPONSE TIMES

63.2% Temperature Change in an Agitated Water Bath



TEMP. LIMITS OF WIRE JACKETS

Jacket	Temp. Limit
PVC	221°F
Teflon	400°F
Std. Fiberglass	900°F
High Temp Fiberglass	1,300°F
Ceramic Fiberglass	2,200°F

THERMOCOUPLE & RTD OPTIONS

		Thermocouple	RTD	Digital Thermometers	Handheld Digital
CERTIFICATION OPTIONS					
-R1	1 Point Calibration Certification, Reotemp Chooses	✓	✓	✓	✓
-R3	3 Point Calibration Certification, Reotemp Chooses	✓	✓	✓	✓
-C1	1 Point Calibration Certification, Customer Chooses	✓	✓	✓	✓
-C3	3 Point Calibration Certification, Customer Chooses	✓	✓	✓	✓
-CC	Certificate of Conformance	✓	✓	✓	✓
-CS	NIST Calibration Sticker (No Logged Points)	✓	✓	✓	✓
OTHER OPTIONS					
-VB	Hi-Vibration	N/A	✓	✓	✓
-AC	Hi-Accuracy	N/A	✓	N/A	N/A
-PS	Pointed Stem	✓	✓	✓	✓
-TF	Teflon Coating	✓	✓	✓	✓
-SS	316 SS stem	N/A	STD	✓	✓
-NL	No Logo	✓	✓	✓	✓
-HT	Heat Transfer Compound (2 oz)	✓	✓	✓	N/A
-GL	Plain Glass Lens	N/A	N/A	✓	✓
-CL	Custom Logo Dial	N/A	N/A	✓	✓
-BP	Replacement Battery Pack	N/A	N/A	✓	✓
-WD	White Dial	N/A	N/A	✓	✓
-AS	Allows to Fit 1-1/4-18 Industrial Thermowell	✓	✓	✓	N/A
TAG OPTION					
-TS	Stainless Steel Tag (1-10 Characters)			✓	
-TM	Stainless Steel Tag (11-80 Characters)			✓	
-TP	Paper Tag			✓	

✓	Indicates that the option is available with this model.
N/A	Indicates the option is not available with this model.
STD	Indicates standard options with no additional cost.