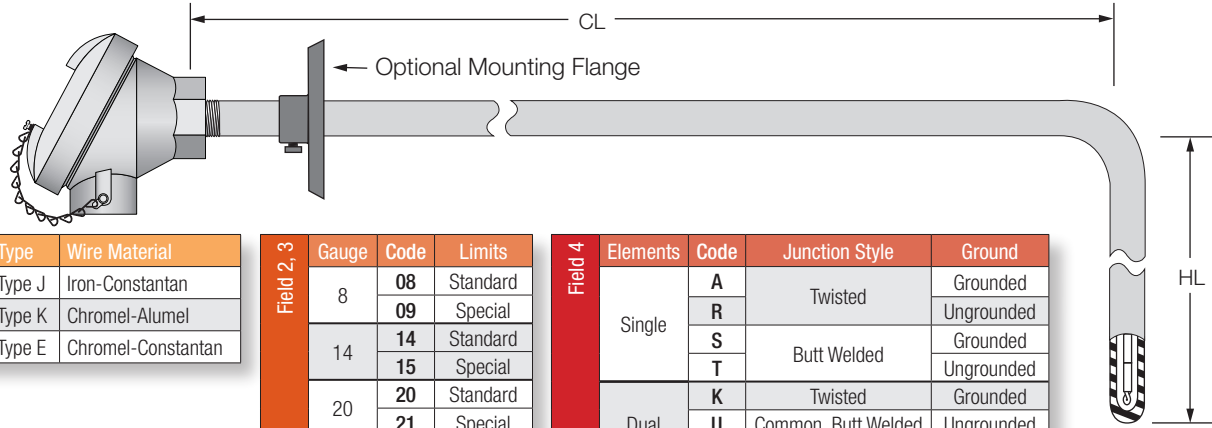


90° Bent Pipe Protection Tube T/C



Base metal industrial thermocouple assemblies are designed to be used in the most severe and demanding environments. The choice of a specific style is to a large degree determined by the temperature

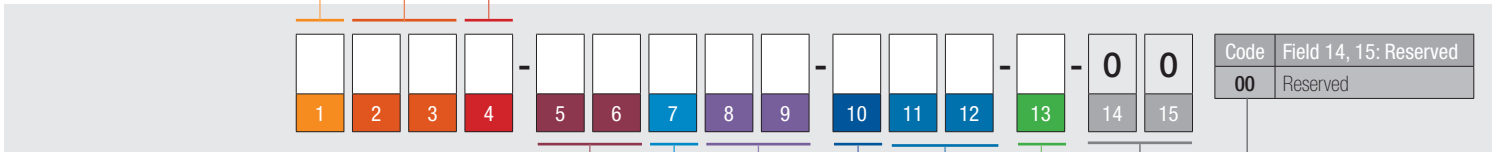
working range, ambient atmospheric or media conditions, as well as the size and shape required for the application. Control requirements such as accuracy and speed of response may also be considerations.



Field 1	Code	Type	Wire Material
	J	Type J	Iron-Constantan
	K	Type K	Chromel-Alumel
	E	Type E	Chromel-Constantan

Field 2, 3	Gauge	Code	Limits
8	14	08	Standard
		09	Special
20	20	14	Standard
		15	Special
20	20	20	Standard
		21	Special

Field 4	Elements	Code	Junction Style	Ground
Single	A	R	Twisted	Grounded
		S	Butt Welded	Grounded
	Dual	K	Twisted	Ungrounded
		U	Common, Butt Welded	Ungrounded
Dual	V	Isolated, Butt Welded	Ungrounded	



Field 5, 6	Code	Size	Protection Tube Material Hot Length Only
Metal	02	1/4" NPT	Low carbon black steel
	03	1/2" NPT	
	04	3/4" NPT	
	05	1" XH NPT	Low carbon black steel, extra heavy wall, schedule 80 pipe
	11	3/4" NPT	446 stainless steel
	12	1/2" NPT	
	13	1" NPT	
	16	1/2" NPT	
	17	3/4" NPT	Inconel 601
	18	1/4" NPT	304 stainless steel
	19	1/2" NPT	
	44	1/2" NPT	316 stainless steel
	47	3/4" NPT	

Lengths that are not a multiple of 6" may have an extra lead time. There is an additional surcharge for lengths longer than 48". Consult factory for lengths longer than 72".

Fields 10	Code	Hot End
Fields 10	0	Closed End
	8	Open End, metal pipe protection tube

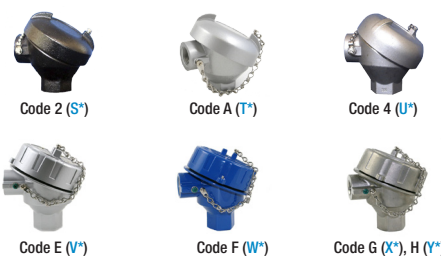
Field 13	Code	Process Mounting Fitting
Field 13	0	None
	2	Adjustable Flange

Fields 8, 9	Code	Hot Length "HL"
Fields 8, 9	HL	Enter Hot Length in inches using two digits <i>NOTE: If over 98", specify 99 = "length" on order</i>

Field(s) 11, 12	Code	Cold Leg "CL"
Field(s) 11, 12	CL	Enter Cold Length in whole inch increments, using two digits. <i>NOTE: If over 98", specify 99 = "length" on order</i>

Field 7	Code	Cold End Termination	Code with Transmitter
Field 7	1	Cast iron. Obsolete, replace with Code 2	
	3	Aluminum. Obsolete, replace with Code A	
	2	Weatherproof, cast iron head (NEMA 4X)	S*
	A	Weatherproof, aluminum head (NEMA 4X)	T*
	4	Weatherproof, 316 SS (NEMA 4X)	U*
	E	Explosion proof, aluminum head (NEMA 4X)	V*
	F	Explosion proof, blue epoxy, aluminum head (ATEX)	W*
	G	Explosion proof, 316 SS head (NEMA 4X)	X*
	H	Explosion proof, 316 SS head (ATEX)	Y*

**Must specify the range of the sensor on the order. (i.e., 0°F - 800°F)*

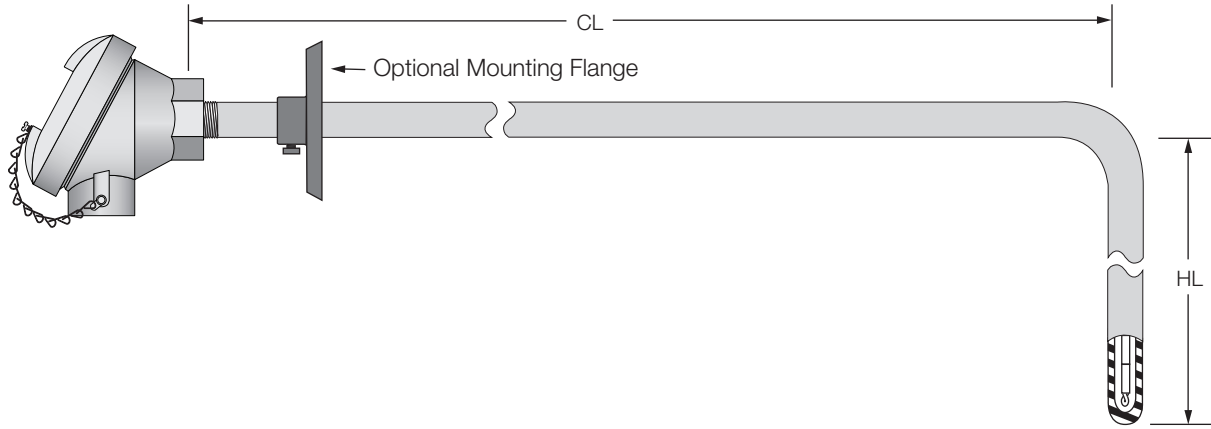


***Add a Transmitter**
Select the code in the Transmitter Code column to add a fully isolated 4 to 20 mA two-wire loop powered temperature transmitter for in-head assembly.



You must specify the range of the sensor on the order. (i.e. 0°F - 800°F)

90° Bent Pipe Protection Tube T/C



Common Model Numbers

(The numbers below are just some of the more common numbers for this product. There are too many combinations to list them all.)