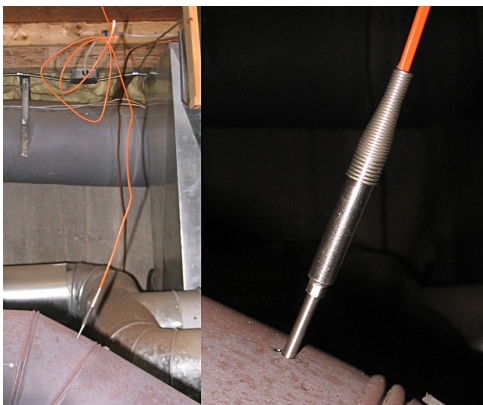


Temperature Probe TC12



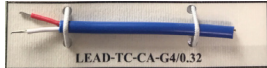

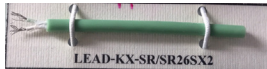
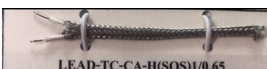


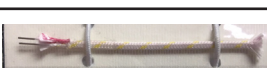
Application



Technical Data

Accuracy : See "Tolerances" table
Storage temperature : -20°C to +80 °C
Output : stripped wires, miniature or standard plugs available on request
Thread : NPT 1/4", NPT 1/2", G 1/2", G 1/4"

Operating temperature of cable table

Cable model	Cable type	Operating temperature
	PVC	105 °C
	Teflon	250 °C
	Silicone	250 °C
	Fiber Glass with SS shield	250 °C
	Fiber Glass 1	250 °C
	Fiber Glass 2	450 °C
	Fiber Glass 3	750 °C

Tolerance table

TC	Measuring range class 1	Tolerance
T	-40...+350 °C	-40...+125 °C ±0.5 °C 125...+350 °C ±0.004 x T°
J	-40...+750 °C	-40...+375 °C ±1.5 °C 375...+750 °C ±0.004 x T°
K	-40...+1000 °C	-40...+375 °C ±1.5 °C 375...+1000 °C ±0.004 x T°
N	-40...+1000 °C	-40...+375 °C ±1.5 °C 375...+1000 °C ±0.004 x T°
S	0...+1600 °C	0...+1100 °C ±1 °C 1100...+1600 °C ±(1 + 0.003*(T°-1100))

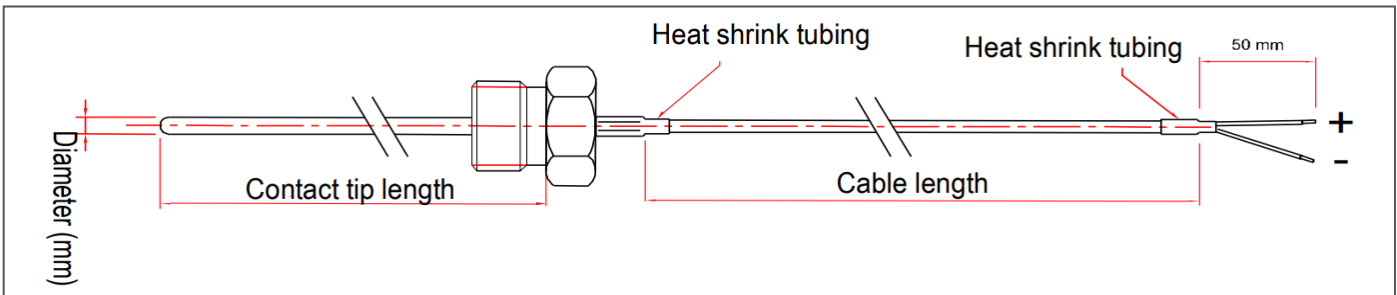
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Common thermocouple types

THERMOCOUPLE TYPES	+ CONDUCTOR	- CONDUCTOR	COLOR OF COMPENSATING CABLE
T	Copper	Constantan	Ext. color + = BROWN, - = WHITE
J	Iron	Constantan	Ext. color + = BLACK, - = WHITE
K	Chromel	Alumel	Ext. color + = GREEN, - = WHITE
N	Nicrosil	Nisil	Ext. color + = PINK, - = WHITE
S	Platinum-10% Rhodium	Platinum	Ext. color + = ORANGE, - = WHITE

Dimensions



Ordering code

Series : TC12-A-B-C-D-E-F	
A : Thermocouple type	
T, J, K, N, S	
B : Probe diameter	
2, 3, 4, 6, 8, 10, 12 mm	
C : Probe length	
50, 100, 150, 200...2000 mm (Selectable)	
D : Cable type	
PVC : PVC (105 °C)	
Sil : Silicone (250 °C)	
TF : Teflon (250 °C)	
FGSS : Fiber Glass with SS shield (250 °C)	
FG 1 : Fiber Glass (250 °C)	
FG 2 : Fiber Glass (450 °C)	
FG 3 : Fiber Glass (750 °C)	
E : Cable length	
1, 1.5, 2, 3...100 m (Selectable)	
F : Thread	
NPT 1/4", NPT 1/2" G 1/4", G 1/2"	

Example

TC12-J-10-150-PVC-10-NPT 1/2" : Thermocouple type J, Probe diameter 10 mm, Probe length 150 mm, Cable PVC type, Cable length 10 m, Thread NPT 1/2"

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