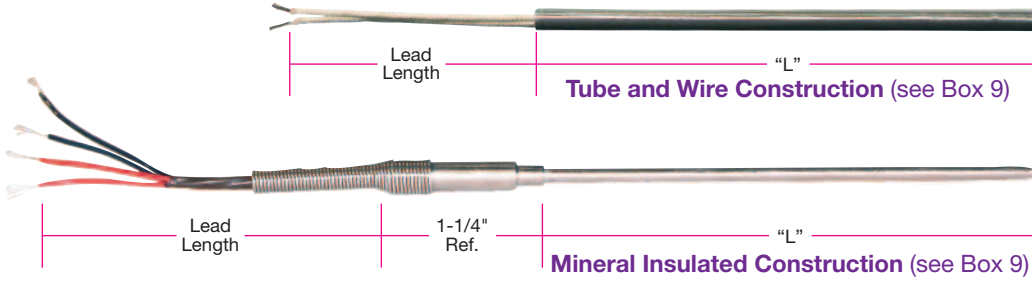


Temperature Sensing



Resistance Temperature Sensing

Style RTD1 — Straight Probes



Design Features

* *Platinum Resistance Element*



**Optional Installation
Compression Fitting**
See Box 12

Ordering Information

RTDs are offered with the options listed in the worksheet below. Create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements, and a part number will be assigned.

Two Construction Styles to Suit Any Application

(See Ordering Code Box 9)

* *Standard Industry Tube and Wire construction with fiberglass 900°F (482°C) or Teflon® 392°F (200°C) lead wires*

* *Mineral Insulated construction rated up to 1200°F (650°C). This construction type allows forming and bending the sheath to meet design requirements.*

Ordering Code:

RTD1 -

Element BOX 1

S = 100Ω Single **K** = 1000Ω Single
D = 100Ω Dual **L** = 1000Ω Dual
TCR = .00385 ohm/ohm/°C

Lead Wire Length BOX 8

In inches **001** to **999**
 12" (012) Standard

RTD Construction Type BOX 9

T = Tube and Wire Construction
M = MgO Insulated Construction with strain relief spring (Type "M" not available for "K" or "L" from Element Box 1)

Element Class BOX 2

A = ±0.06% at 0°C, Optional
B = ±0.12% at 0°C, Standard

Number of Leads BOX 3

2 = 2-wire circuit
3 = 3-wire circuit
4 = 4-wire circuit
0.125 O.D. 4-wire circuit not available

Sheath O.D. BOX 4

F = 0.125" (Single Element Only)
G = 0.188"
H = 0.250"
X = Other (Specify)

Sheath Material BOX 5

B = 304 SS
C = 316 SS
A = Alloy 600
 (Type "M" only; See Box 9)

Sheath Length "L" BOX 6

Whole inches
01 to **99**

Sheath Length "L" BOX 7

Fractional inches
0 = 0" **3** = 3/8" **6** = 3/4"
1 = 1/8" **4** = 1/2" **7** = 7/8"
2 = 1/4" **5** = 5/8"

Lead Wire Construction BOX 10

Fiberglass 900°F (482°C)	S	w/ SS Overbraid*	B	w/Flex Armor*	A
Teflon® 392°F (200°C)	T		D		F

* *Flex Armor options, overbraid options and .125" O.D. and dual constructions may require transitions.*

Lead Wire Termination BOX 11

P = Standard Male Plug 350°F (177°C) **F** = Mini Plug & Mating Jack
J = Standard Female Jack **B** = Std.—2-1/2 in. Split Leads
K = Std. Plug with Mating Jack **S** = Leads with Spade Lugs
D = Mini Male Plug 350°F (177°C) **C** = 2-1/2 in. Split Leads with BX Connector and Spade Lugs
E = Mini Female Jack
X = Other (Specify)

Plugs and Jacks for 2- and 3-Wire Only

Optional Compression Fitting BOX 12

1 = 1/8" NPT SS **4** = 1/8" NPT Brass
2 = 1/4" NPT SS **5** = 1/4" NPT Brass
3 = 1/2" NPT SS **6** = 1/2" NPT Brass
0 = None Required

Special Requirements BOX 13

X = Specify
0 = None

Temperature Sensing



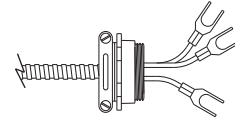
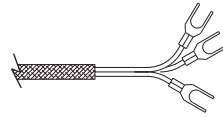
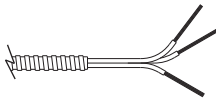
RTD Termination Styles

RTD Termination Styles

Style B—Plain Ends

Style S—Spade Lugs

Style C—Spade Lugs with BX connector



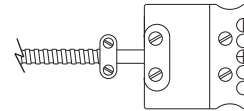
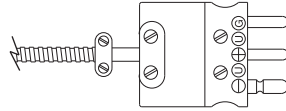
Optional Termination Styles

Available for the following RTDs:

Style	Page
RTD1	14-50
RTD4	14-53
RTD5	14-54
RTP	14-61 through 14-63

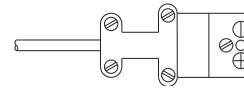
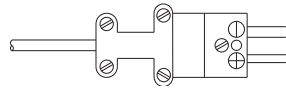
Style P—Standard Plug (3-wire shown)

Style J—Standard Jack (3-wire shown)



Style D—Miniature Plug (2-wire shown)

Style E—Miniature Jack (2-wire shown)



ECR Style RTD Extension Assemblies

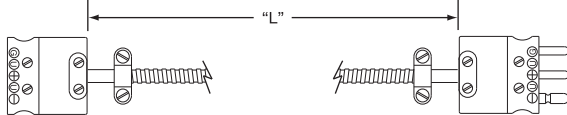
(3-wire circuits shown, 2-wire circuits also available)

Termination 1

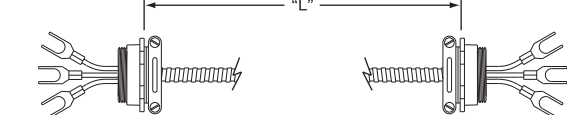
Termination 2

Termination 1

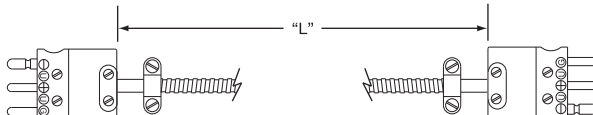
Termination 2



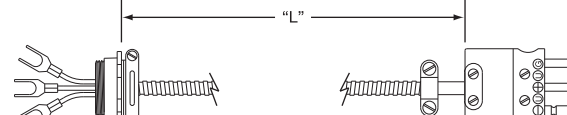
Style RJP—Jack to Plug



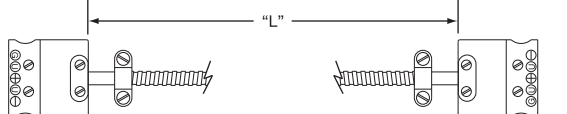
Style RCC—BX Connector to BX Connector



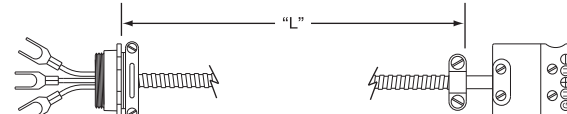
Style RPP—Plug to Plug



Style RCP—BX Connector to Plug



Style RJJ—Jack to Jack



Style RCJ—BX Connector to Jack

Ordering Code: **ECR** -

Number of Leads BOX 1

- 2 = 2-wire circuit
- 3 = 3-wire circuit
- 4 = 4-wire circuit*

*Plugs and Jacks not available

"L" Dimension BOX 4

Whole inches
001 to 999

Lead Insulation BOX 5

	Standard	w/ SS Overbraid	w/ SS Armor Cable
Fiberglass 900°F (482°C)	S	B	A
Teflon® 392°F (200°C)	T	D	F

Termination (Specify for Both Ends) BOXES 2 & 3

- B** = 2-1/2 in. Split Leads
- S** = Spade Lugs
- C** = Spade Lugs with BX Conn.
- P*** = Standard Plug
- J*** = Standard Jack
- D*** = Miniature Plug
- E*** = Miniature Jack
- X** = Other (Specify)

*Plugs and Jacks for 2- and 3-Wire Only

Special Requirements BOX 6

- X** = Specify
- 0** = None