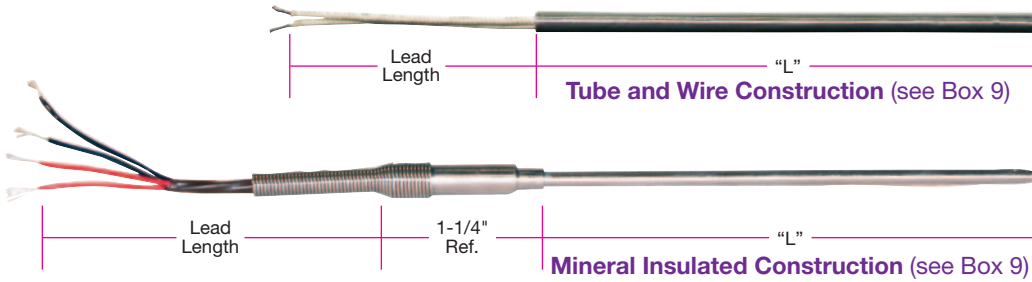


# Temperature Sensing



## 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

#### Lead Wire Construction BOX 10

Fiberglass 900°F (482°C)    **S**    **B**    **A**  
 Teflon® 392°F (200°C)    **T**    **D**    **F**  
 \* *Flex Armor options, overbraid options and .125" O.D. and dual constructions may require transitions.*

#### 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*

#### 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*

#### 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)

#### 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

#### Sheath Length "L" BOX 6

Whole inches  
**01** to **99**  
 For lengths over 99 in. consult TEMPCO.

#### 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"

#### Special Requirements BOX 13

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

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



## RTD Termination Styles

### RTD Termination Styles

Style B—Plain Ends

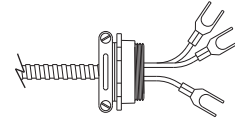
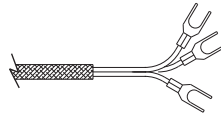
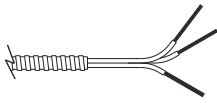
Style S—Spade Lugs

Style C—Spade Lugs with BX connector

#### Optional Termination Styles

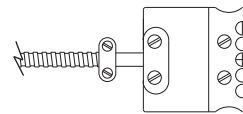
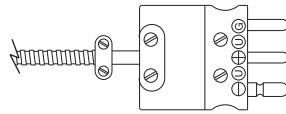
Available for the following RTDs:

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



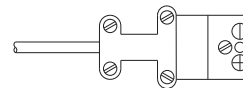
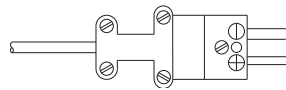
Style P—Standard Plug  
(3-wire shown)

Style J—Standard Jack  
(3-wire shown)



Style D—Miniature Plug  
(2-wire shown)

Style E—Miniature Jack

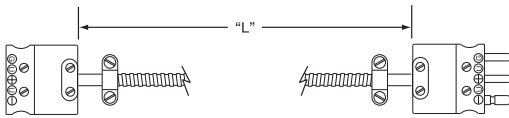


### ECR Style RTD Extension Assemblies

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

Termination 1

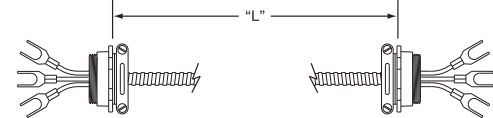
Termination 2



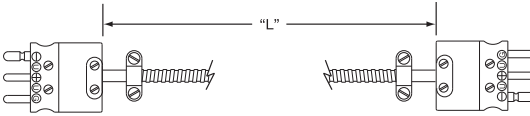
Style RJP—Jack to Plug

Termination 1

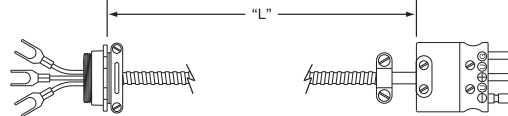
Termination 2



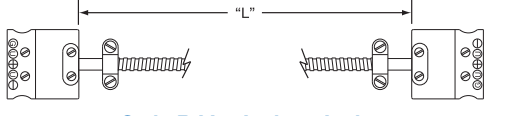
Style RCC—BX Connector to BX Connector



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	Overbraided	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

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).