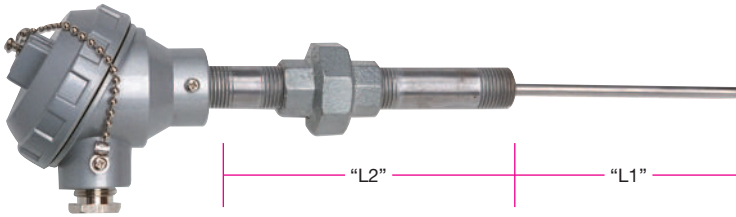


Temperature Sensing

Resistance Temperature Sensing



Style RTD9 — Connection Head with 1/2" NPT Nipple, Union, Nipple



Two Construction Styles to Suit Any Application

(See Ordering Code Box 11)

- * 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.

Design Features

- * Platinum Resistance Element.
- * Tempco's connection heads are gasketed to seal against moisture, dust and corrosive or hostile atmospheres.
- * Screw covers are attached to body with a plated chain.
- * Covers have lugs for tightening or loosening with a screwdriver or wrench.
- * Available in single or duplex.
- * Tempco's connection heads are available in die cast aluminum, bakelite and cast iron in a variety of sizes from miniature for confined areas, to the large universal head designed for heavy process and industrial applications. See sensor accessories on pages 14-98 through 14-100 for complete information.
- * Nipple-Union-Nipple is galvanized.

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.

Ordering Code:

RTD9 -

Element BOX 1

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

Sheath Length "L1" BOX 6

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

Sheath Length "L1" BOX 7

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

Element Class BOX 2

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

"L2" Dimension (in.) BOX 8

Nipple, Union, Nipple in whole inches
 Standard Lengths S1 = 3-1/2", S2 = 6-1/2", S3 = 12-1/2"

Number of Leads BOX 3

2 = 2-wire circuit
 3 = 3-wire circuit
 4 = 4-wire circuit (Dual circuit not available)
 0.125" O.D. (Dual circuit not available)

Connection Head BOX 9

A = Standard Size Aluminum P = Polypropylene
 B = Medium Size Aluminum S = Stainless Steel
 C = Miniature Aluminum E = Explosion Proof (Aluminum)
 H = Standard Cast Iron T = Explosion Proof (Stainless Steel)
 F = Standard Bakelite

Note: Conduit connection for A, F, H & S is 1/2" (3/4" available);
 for B & C is 3/8"; and for P is 3/4" NPT.
 For overall dimensions see pages 14-98 through 14-100.

Sheath O.D. BOX 4

F = 0.125"
 G = 0.188"
 H = 0.250"

Spring-Loaded Probe BOX 10

O = Not Required
 Y = Required

Sheath Material BOX 5

B = 304 SS
 C = 316 SS
 A = Alloy 600
 (Type "M" Only; See Box 11)

RTD Construction Type BOX 11

Standard Industry Construction
 S = Fiberglass insulated 900°F (450°C)
 T = Teflon® Insulated 392°F (200°C)
 Mineral Insulated Construction
 M = MgO Insulated 1200°F (650°C)
 (Type "M" not available for "K"
 or "L" from Element Box 1)

Special Requirements BOX 12

X = Specify
 0 = None

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Temperature Sensing



RTD Termination Styles

RTD Termination Styles

Style B—Plain Ends

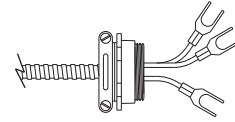
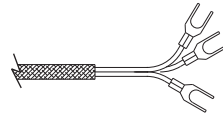
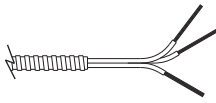
Style S—Spade Lugs

Style C—Spade Lugs with BX connector

Optional Termination Styles

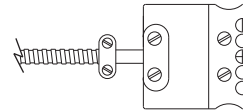
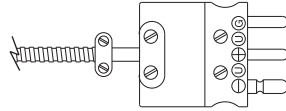
Available for the following RTDs:

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



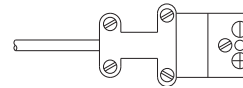
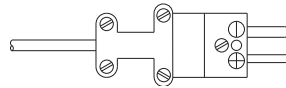
Style P—Standard Plug
(3-wire shown)

Style J—Standard Jack
(3-wire shown)



Style D—Miniature Plug
(2-wire shown)

Style E—Miniature Jack
(2-wire shown)

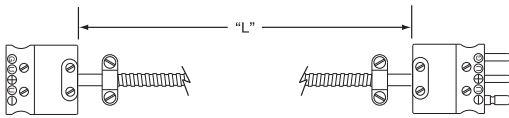


ECR Style RTD Extension Assemblies

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

Termination 1

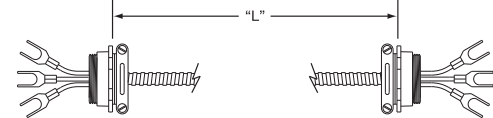
Termination 2



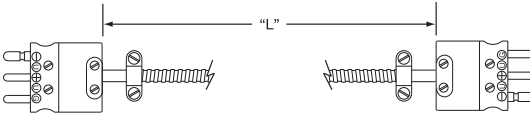
Style RJP—Jack to Plug

Termination 1

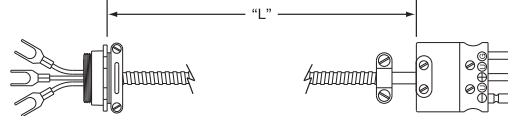
Termination 2



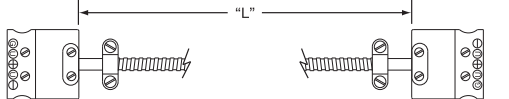
Style RCC—BX Connector to BX Connector



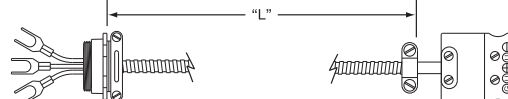
Style RPP—Plug to Plug



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

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

Lead Insulation BOX 5

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

Special Requirements BOX 6

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

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.