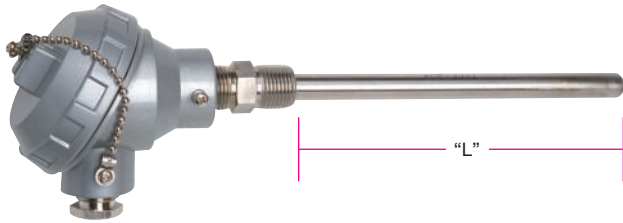


Temperature Sensing

Resistance Temperature Sensing



Style RTD7 — Connection Head with 1/2" NPT Hex Nipple



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.*

Two Construction Styles to suit any application

(See Ordering Code Box 10)

- * *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 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:

RTD7 -

Element BOX 1

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

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 (Dual circuit not available)
0.125" O.D. (Dual circuit not available)

Sheath O.D. BOX 4

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

Sheath Material BOX 5

B = 304 SS
C = 316 SS
A = Alloy 600
 (Type "M" Only; See Box 10)

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

Connection Head BOX 8

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.

Spring-Loaded Probe BOX 9

O = Not Required
Y = Required

RTD Construction Type BOX 10

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 11

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

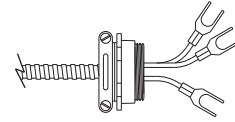
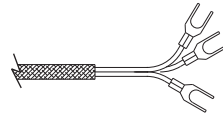
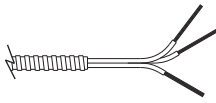
Style S—Spade Lugs

Style C—Spade Lugs with BX connector

Optional Termination Styles

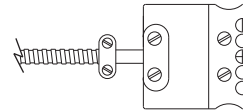
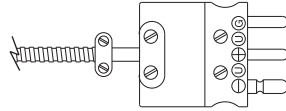
Available for the following RTDs:

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



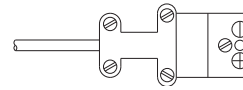
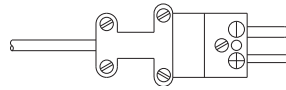
Style P—Standard Plug
(3-wire shown)

Style J—Standard Jack
(3-wire shown)



Style D—Miniature Plug
(2-wire shown)

Style E—Miniature Jack
(2-wire shown)

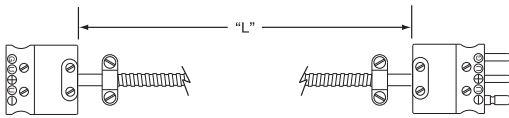


ECR Style RTD Extension Assemblies

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

Termination 1

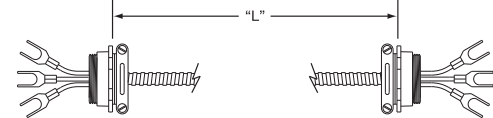
Termination 2



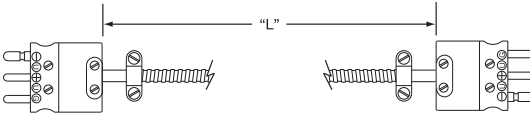
Style RJP—Jack to Plug

Termination 1

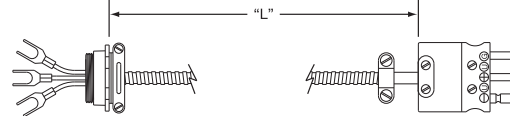
Termination 2



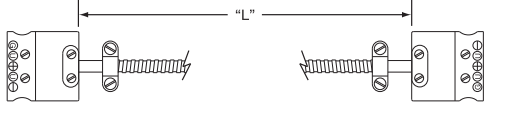
Style RCC—BX Connector to BX Connector



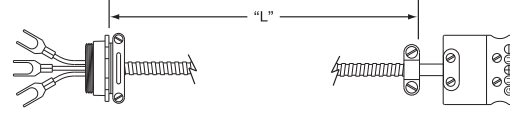
Style RPP—Plug to Plug



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

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