

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.

Ordering Code:

RTD9 -

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 11)

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

"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"

Connection Head BOX 9

A = Standard Size Aluminum **S** = Stainless Steel
B = Medium Size Aluminum **F** = Standard Bakelite
C = Miniature Aluminum **P** = Polypropylene
H = Standard Cast Iron

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 Terminal Block BOX 10

O = Not Required
Y = Required

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

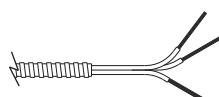
X = Specify
0 = None

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

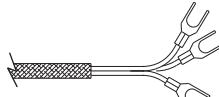
[View Product Inventory @ www.tempco.com](http://www.tempco.com)

RTD Termination Styles

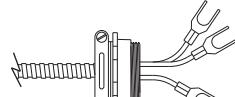
Style B—Plain Ends



Style S—Spade Lugs



Style C—Spade Lugs with BX connector

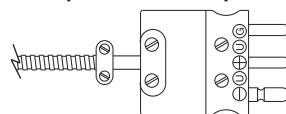


Optional Termination Styles

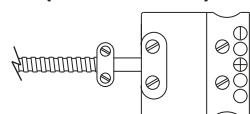
Available for the following RTDs:

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

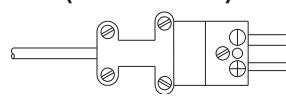
Style P—Standard Plug (3-wire shown)



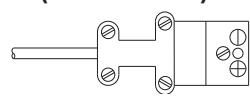
Style J—Standard Jack (3-wire shown)



Style D—Miniature Plug (2-wire shown)



Style E—Miniature Jack (2-wire shown)

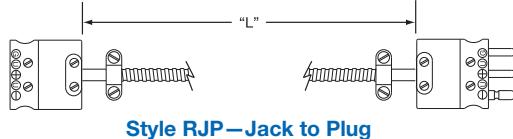


ECR Style RTD Extension Assemblies

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

Termination 1

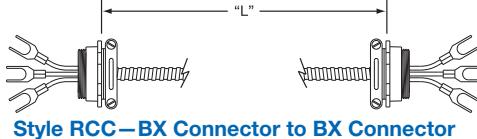
Termination 2



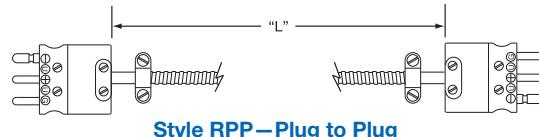
Style RJP—Jack to Plug

Termination 1

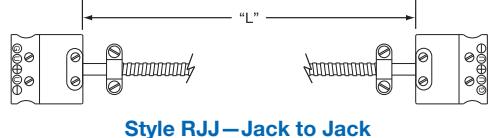
Termination 2



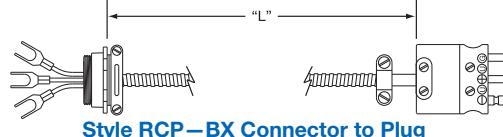
Style RCC—BX Connector to BX Connector



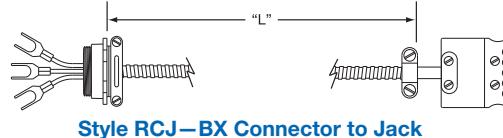
Style RPP—Plug to Plug



Style RJJ—Jack to Jack



Style RCP—BX Connector to Plug



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

Special Requirements BOX 6

X = Specify
0 = None

Termination (Specify for Both Ends) BOXES 2 & 3

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

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



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