RTD ASSEMBLIES ■ PJFC-PLUG/JACK TERMINATION

Conax polarized plug and jack assembly bodies are made from molded glass-filled thermoset compounds, with copper pin material. The connector is color-coded white. A metal ferrule tube adapter secures the probe in place, and a wire clamp is used to hold the wire. Standard assemblies are designed to operate in temperatures up to 300˚ F (150˚ C). High temperature assemblies operate up to 800˚ F (427˚ C) and are color-coded red. Polarity marks are molded in the bodies for installation assistance. Individual plugs, jacks, tube adapters and wire clamps are also available.

Specify Sensor Element

RTD43 Platinum
- 100Ω @ 0˚ C
- α = 0.00385 Ω/Ω/˚C
- -200˚ C to +600˚ C
- -328˚ F to +1112˚ F

MRTDF43 Platinum
- 100Ω @ 0˚ C
- α = 0.00385 Ω/Ω/˚C
- -50˚ C to +550˚ C
- -58˚ F to +1022˚ F

RTD44 Platinum
- 100Ω @ 0˚ C
- α = 0.00385 Ω/Ω/˚C
- -200˚ C to +800˚ C
- -328˚ F to +1472˚ F
- Inconel 600 sheath standard

RTD45 Platinum
- 100Ω @ 0˚ C
- α = 0.003916 Ω/Ω/˚C
- -200˚ C to +600˚ C
- -328˚ F to +1112˚ F

RTD86 Platinum
- 200Ω @ 0˚ C
- α = 0.00385 Ω/Ω/˚C
- -200˚ C to +600˚ C
- -328˚ F to +1112˚ F

MRTDF430 Platinum
- 1000Ω @ 0˚ C
- α = 0.00385 Ω/Ω/˚C
- -50˚ C to +550˚ C
- -58˚ F to +1022˚ F
- Available with 0.250" sheath diameter or larger

Note: For ASTM E1137 assemblies, use ordering prefix ARTD44W4-SS25 or ARTD44W4-INC25.

Specify Sensor Tolerance

W (Class B)
- Available for RTD43, 44 and 45, single and dual; and RTD86, MRTDF43 and MRTDF430, single only
- Tolerance at 0˚ C is ±0.3˚ C

V (1/3 Class B)
- Available for RTD43, 44 and 45 single only
- Tolerance at 0˚ C is ±0.1˚ C

S (Class A)
- Available for RTD43, 44 and 45 single only
- Tolerance at 0˚ C is ±0.15˚ C

X
- Available for ERTD41, single only; tolerance at 0˚ C is ±0.4˚ C
- Available for ERTD42, single; tolerance at 0˚ C is ±0.8˚ C
- Available for ERTD42, dual; tolerance at 0˚ C is ±1.4˚ C

ERTD41 Copper
- 10Ω (9.05Ω actual) @ 0˚ C
- α = 0.00426 Ω/Ω/˚C
- -70˚ C to +150˚ C
- -94˚ F to +300˚ F
- Available with 0.250" sheath diameter or larger

ERTD42 Nickel
- 120Ω @ 0˚ C
- α = 0.00672 Ω/Ω/˚C
- -40˚ C to +180˚ C
- -40˚ F to +350˚ F
- Available with 0.250" sheath diameter or larger

Specify Sensor Lead Configuration

2 — 2-WIRE SINGLE (+, C)

3 — 3-WIRE SINGLE (+, –, C)

4 — 4-WIRE SINGLE (+, +, C, C)

6 — 2-WIRE DUAL (+, +, C, C)

Note: 0.125" and 0.187" diameter sheaths can contain up to 4 wires; 0.250" diameter sheaths can contain up to 6 wires.

Specify Sheath Material & Size

316 Stainless Steel

316SS118
- 3 mm

316SS12
- 0.125" diameter

316SS18
- 0.187" diameter

316SS236
- 6 mm

316SS25
- 0.250" diameter

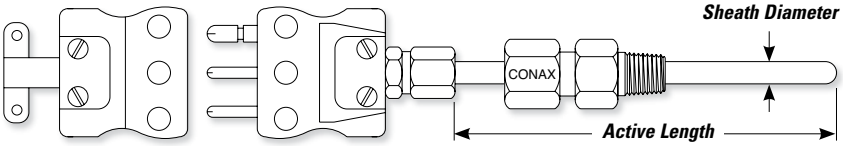
Inconel 600

INC12
- 0.125" diameter
- Standard sheath material for RTD44

INC18
- 0.187" diameter
- Standard sheath material for RTD44

INC25
- 0.250" diameter
- Standard sheath material for RTD44

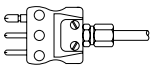
Note: For additional diameters and other sheath materials, see page 7.



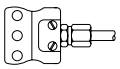
Sensor Element | 'W' Sensor Tolerance | '3' Sensor Lead Configuration | 0.250" 316 Stainless Steel Sheath | PJFC Termination | Mounting Style | Length

Progressive Description Example: ***RTD43W3-316SS25-PJFC-PG4AL-12.00"***

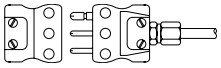
Specify Termination Style



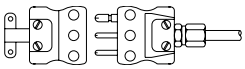
PJ – Male plug only
PJHT – Male plug only, high temperature



PF – Female jack only
PFHT – Female jack only, high temperature



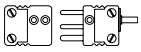
PJF – Male plug & female jack
PJFHT – Male plug & female jack, high temperature



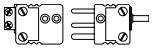
PJFC – Plug, jack & wire clamp
PJFCHT – Plug, jack & wire clamp, high temperature

MPJ – Miniature male plug only
MPJHT – Miniature male plug only, high temperature

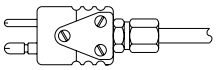
MPF – Miniature female jack only
MPFHT – Miniature female jack only, high temperature



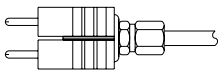
MPJF – Miniature male plug and female jack
MPJFHT – Miniature male plug and female jack, high temperature



MPJFC – Miniature plug, jack and wire clamp
MPJFCHT – Miniature plug, jack and wire clamp, high temperature



Two-pin model



Four-pin model

Miniatures not available in four-pin style.

For detailed descriptions of termination styles, see page 46.

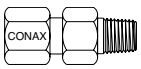
Specify Mounting Style (optional)

Packing Gland

MPG

- For 0.125" and 0.187" diameter sheath
- Stainless steel construction
- Mounting thread 1/8 NPT

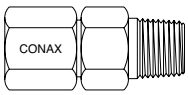
MPGAL – Lava sealant
MPGAT – Teflon sealant
MPGAN – Neoprene sealant
MPGAV – Viton sealant
MPGAG – Grafoil sealant



PG2

- For 0.125", 0.187" and 0.250" diameter sheath
- Stainless steel construction
- Mounting thread 1/4 NPT

PG2AL – Lava sealant
PG2AT – Teflon sealant
PG2AN – Neoprene sealant
PG2AV – Viton sealant
PG2AG – Grafoil sealant



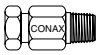
PG4

- For 0.250" diameter sheath
- Stainless steel construction
- Mounting thread 1/2 NPT

PG4AL – Lava sealant
PG4AT – Teflon sealant
PG4AN – Neoprene sealant
PG4AV – Viton sealant
PG4AG – Grafoil sealant

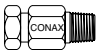
Specify Length in Inches (required)

Midlock Gland



MK125A

- For 0.125" diameter sheath
- Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/8 NPT



MK187A

- For 0.187" diameter sheath
- Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/8 NPT

MK250A

- For 0.250" diameter sheath
- Stainless steel construction
- Stainless steel ferrule
- Mounting thread 1/4 NPT

Spring-Load

CSLP

- For 0.125", 0.187" and 0.250" diameter sheaths
- Stainless steel construction
- Mounting thread 1/2 NPT

Note: For sealant material details, see page 37.