RTD ASSEMBLIES ■ LEADWIRE (T3/T4) TERMINATION AND TERMINAL BARREL

This exclusive Conax design provides a practically unbreakable connection between the leadwire and the probe lead. The T3 epoxy-filled transition is supplied with 24 AWG stranded silver-plated copper Teflon-insulated wire with Teflon overall as standard. Silicone impregnated fiberglass insulation is also available.

T4 termination provides a stainless steel overbraid for maximum flexibility and abrasion resistance. The overbraid is embedded in the epoxy-filled material to ensure mechanical strength. Standard extension leads are 24" long. Longer leads are available on request.

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 — RED, WHITE — 2-WIRE SINGLE

3 — RED, RED, WHITE — 3-WIRE SINGLE

4 — RED, RED, WHITE, WHITE — 4-WIRE SINGLE

6 — RED, RED, WHITE, WHITE — 2-WIRE DUAL

7 — RED, RED, RED, RED, WHITE, WHITE — 3-WIRE DUAL

8 — RED, RED, RED, RED, WHITE, WHITE, WHITE, WHITE — 4-WIRE DUAL

Note: 0.125" and 0.187" diameter sheaths can contain up to 4 wires; 0.250" diameter sheaths can contain up to 8 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

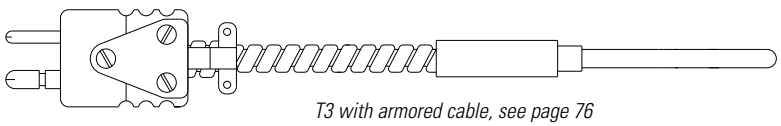
Inconel 600

INC12
- 0.125" diameter
- Standard sheath material for RTD44

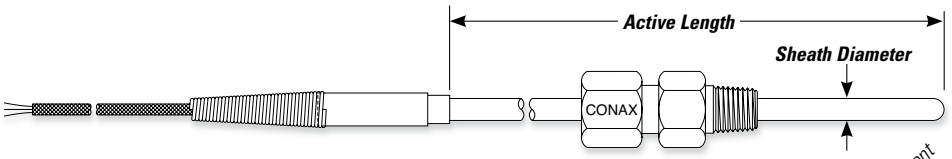
INC18
- 0.187" diameter
- Standard sheath material for RTD44

INC25
- 0.250" diameter
- Standard sheath material for RTD44

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



T3 with armored cable, see page 76 (Also available without armor.)



Sensor Element | "W" Sensor Tolerance | "3" Sensor Lead Configuration | 0.250" 316 Stainless Steel Sheath | T3 Termination | Mounting Style | Length

Progressive Description Example: ***RTD43W3-316SS25-T3-PG4AL-12.00"***

Specify Termination Style

T3
- Teflon insulated leadwire
- Service temperature: 300˚ F (150˚ C)

T4
- Teflon insulated leadwire
- Stainless steel overbraid
- Service temperature: 300˚ F (150˚ C)

T4F
- Fiberglass/silicone impregnated leadwire insulation
- Stainless steel overbraid
- Service temperature: 300˚ F (150˚ C)

T4(HT)
- Fiberglass/silicone impregnated
- Stainless steel overbraid
- High temperature encapsulant
- Service temperature: 900˚ F (482˚ C)

For longer lead length, specify in feet, rounded up to the nearest foot. Example: T3(3 FT)

Optional leadwire insulation types are available. Example: PVC requested – T3(3 FT-PVC). Consult factory for availability.

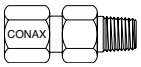
For detailed descriptions of termination styles, see pages 42-43.

Specify Mounting Style (optional)

Packing Gland

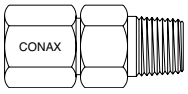
MPG
- For 0.125" and 0.187" diameter sheath
- Stainless steel construction
- Mounting thread 1/8 NPT

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.