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# High Temperature Thermocouple Assemblies

## With Molded Transition Junctions 1/16 to 1/4" Diameters

## Standard Dimensions

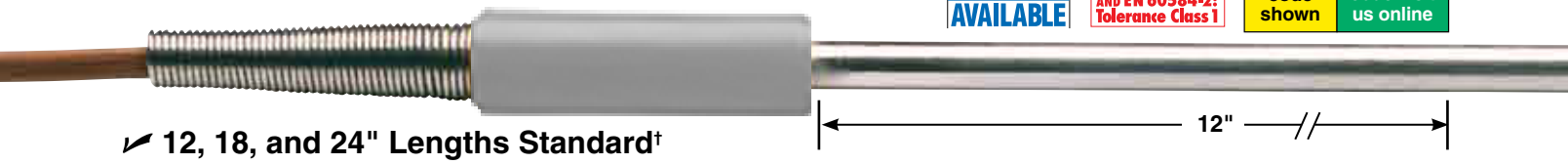
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MEETS OR EXCEEDS SPECIAL LIMITS OF ERROR (SLE) AND EN 60584-2: Tolerance Class 1

ANSI color code shown

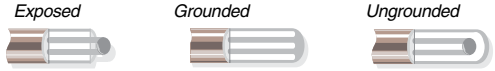
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- 12, 18, and 24" Lengths Standard†
- 304, 310, 316, 321 SS, Inconel or Super OMEGACLAD® XL Sheath
- Molded Junction Rated to 260°C (500°F)
- 40" PFA Coated Lead Wires
- Stripped Lead Wire Termination—Connector Options Available

Thermocouple molded assemblies with transition joints of molded LCP high temperature liquid crystal polymer provide an economical yet durable thermocouple probe for a variety of sensing applications. The measuring tip is limited only by thermocouple type and sheath material. Stainless steel sheaths have a maximum temperature of 900°C (1650°F) with Inconel 600 rated to 1150°C (2100°F).

Junction Types




## To Order

| Thermocouple Alloy | Sheath Dia. (in) | Model No. 12" Length | Model No. 18" Length | Model No. 24" Length |
|---|---|---|---|---|
| IRON-CONSTANTAN Inconel Sheath J | 1/16" | JTIN-116(*)-12 | JTIN-116(*)-18 | JTIN-116(*)-24 |
| | 1/8" | JTIN-18(*)-12 | JTIN-18(*)-18 | JTIN-18(*)-24 |
| | 3/16" | JTIN-316(*)-12 | JTIN-316(*)-18 | JTIN-316(*)-24 |
| | 1/4" | JTIN-14(*)-12 | JTIN-14(*)-18 | JTIN-14(*)-24 |
| IRON-CONSTANTAN 304 SS Sheath J | 1/16" | JTSS-116(*)-12 | JTSS-116(*)-18 | JTSS-116(*)-24 |
| | 1/8" | JTSS-18(*)-12 | JTSS-18(*)-18 | JTSS-18(*)-24 |
| | 3/16" | JTSS-316(*)-12 | JTSS-316(*)-18 | JTSS-316(*)-24 |
| | 1/4" | JTSS-14(*)-12 | JTSS-14(*)-18 | JTSS-14(*)-24 |
| CHROMEGA®-ALOMEGA® Inconel Sheath K | 1/16" | KTIN-116(*)-12 | KTIN-116(*)-18 | KTIN-116(*)-24 |
| | 1/8" | KTIN-18(*)-12 | KTIN-18(*)-18 | KTIN-18(*)-24 |
| | 3/16" | KTIN-316(*)-12 | KTIN-316(*)-18 | KTIN-316(*)-24 |
| | 1/4" | KTIN-14(*)-12 | KTIN-14(*)-18 | KTIN-14(*)-24 |
| CHROMEGA®-ALOMEGA® 304 SS Sheath K | 1/16" | KTSS-116(*)-12 | KTSS-116(*)-18 | KTSS-116(*)-24 |
| | 1/8" | KTSS-18(*)-12 | KTSS-18(*)-18 | KTSS-18(*)-24 |
| | 3/16" | KTSS-316(*)-12 | KTSS-316(*)-18 | KTSS-316(*)-24 |
| | 1/4" | KTSS-14(*)-12 | KTSS-14(*)-18 | KTSS-14(*)-24 |
| CHROMEGA®-ALOMEGA® Super OMEGACLAD® XL Sheath K | 1/16" | KTXL-116(*)-12 | KTXL-116(*)-18 | KTXL-116(*)-24 |
| | 1/8" | KTXL-18(*)-12 | KTXL-18(*)-18 | KTXL-18(*)-24 |
| | 3/16" | KTXL-316(*)-12 | KTXL-316(*)-18 | KTXL-316(*)-24 |
| | 1/4" | KTXL-14(*)-12 | KTXL-14(*)-18 | KTXL-14(*)-24 |
| OMEGA-P®- †† OMEGA-N® Super OMEGACLAD® XL Sheath N | 1/16" | NTXL-116(*)-12 | NTXL-116(*)-18 | NTXL-116(*)-24 |
| | 1/8" | NTXL-18(*)-12 | NTXL-18(*)-18 | NTXL-18(*)-24 |
| | 3/16" | NTXL-316(*)-12 | NTXL-316(*)-18 | NTXL-316(*)-24 |
| | 1/4" | NTXL-14(*)-12 | NTXL-14(*)-18 | NTXL-14(*)-24 |
| CHROMEGA®-CONSTANTAN Inconel Sheath E | 1/16" | ETIN-116(*)-12 | ETIN-116(*)-18 | ETIN-116(*)-24 |
| | 1/8" | ETIN-18(*)-12 | ETIN-18(*)-18 | ETIN-18(*)-24 |
| | 3/16" | ETIN-316(*)-12 | ETIN-316(*)-18 | ETIN-316(*)-24 |
| | 1/4" | ETIN-14(*)-12 | ETIN-14(*)-18 | ETIN-14(*)-24 |
| CHROMEGA®-CONSTANTAN 304 SS Sheath E | 1/16" | ETSS-116(*)-12 | ETSS-116(*)-18 | ETSS-116(*)-24 |
| | 1/8" | ETSS-18(*)-12 | ETSS-18(*)-18 | ETSS-18(*)-24 |
| | 3/16" | ETSS-316(*)-12 | ETSS-316(*)-18 | ETSS-316(*)-24 |
| | 1/4" | ETSS-14(*)-12 | ETSS-14(*)-18 | ETSS-14(*)-24 |
| COPPER-CONSTANTAN Inconel Sheath T | 1/16" | TTIN-116(*)-12 | TTIN-116(*)-18 | TTIN-116(*)-24 |
| | 1/8" | TTIN-18(*)-12 | TTIN-18(*)-18 | TTIN-18(*)-24 |
| | 3/16" | TTIN-316(*)-12 | TTIN-316(*)-18 | TTIN-316(*)-24 |
| | 1/4" | TTIN-14(*)-12 | TTIN-14(*)-18 | TTIN-14(*)-24 |
| COPPER-CONSTANTAN 304 SS Sheath T | 1/16" | TTSS-116(*)-12 | TTSS-116(*)-18 | TTSS-116(*)-24 |
| | 1/8" | TTSS-18(*)-12 | TTSS-18(*)-18 | TTSS-18(*)-24 |
| | 3/16" | TTSS-316(*)-12 | TTSS-316(*)-18 | TTSS-316(*)-24 |
| | 1/4" | TTSS-14(*)-12 | TTSS-14(*)-18 | TTSS-14(*)-24 |

** Specify junction type: **"E"** (exposed), **"G"** (grounded) or **"U"** (ungrounded). †Other lengths are available, consult Sales Department. †† Supplied with stainless steel transition joints. To order with 310, 316 or 321 SS sheath, change **"SS"** in model number to **"310SS"**, **"316SS"** or **"321SS"** respectively; no additional cost. Consult Sales for lengths between 2 to 12", or for lengths over 24". Type N Inconel sheathing is available, contact Sales for model numbers. **Ordering Examples: JT321SS-116U-24,** Type J molded transition probe, 1/16" Dia., 321 SS sheath, ungrounded junction, 24" L. **KTSS-18G-12**, molded transition junction probe, Type K, 1/8" OD, 304 SS sheath, grounded junction, 12" L.*

# High Temperature Thermocouple Assemblies
## With Molded Transition Junctions 1.5 to 6 mm Diameters
## Metric Dimensions

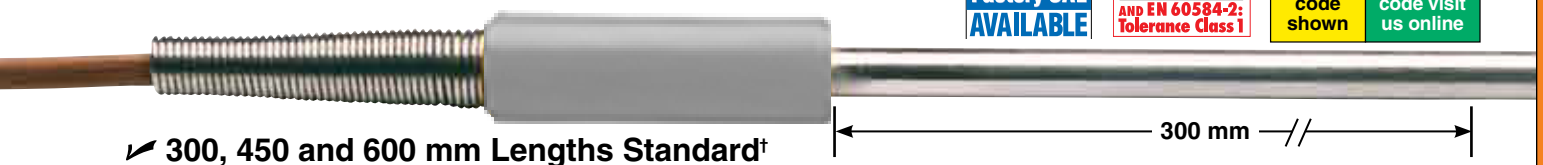
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MEETS OR EXCEEDS SPECIAL LIMITS OF ERROR (SLE) AND EN 60584-2: Tolerance Class 1

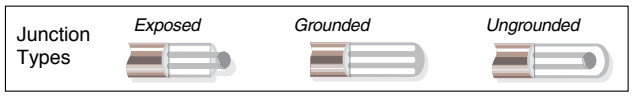
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- 300, 450 and 600 mm Lengths Standard†
- 304, 310, 316, 321 SS, Inconel or Super OMEGACLAD® XL Sheath
- Molded Junction Rated to 260°C (500°F)
- 1 m PFA Coated Lead Wires
- Stripped Lead Wire Termination—Connector Options Available

Thermocouple molded assemblies with transition joints of molded LCP high temperature liquid crystal polymer provide an economical yet durable thermocouple probe for a variety of sensing applications. The measuring tip is limited only by thermocouple type and sheath material. Stainless steel sheaths have a maximum temperature of 900°C (1650°F) with Inconel 600 rated to 1150°C (2100°F).




## To Order

| Thermocouple Alloy | Sheath Dia. (mm) | Model No. 300 mm Length | Model No. 450 mm Length | Model No. 600 mm Length |
|---|---|---|---|---|
| IRON-CONSTANTAN Inconel Sheath J | 1.5 | JTIN-M15(*)-300 | JTIN-M15(*)-450 | JTIN-M15(*)-600 |
| | 3.0 | JTIN-M30(*)-300 | JTIN-M30(*)-450 | JTIN-M30(*)-600 |
| | 4.5 | JTIN-M45(*)-300 | JTIN-M45(*)-450 | JTIN-M45(*)-600 |
| | 6.0 | JTIN-M60(*)-300 | JTIN-M60(*)-450 | JTIN-M60(*)-600 |
| IRON-CONSTANTAN 304 SS Sheath J | 1.5 | JTSS-M15(*)-300 | JTSS-M15(*)-450 | JTSS-M15(*)-600 |
| | 3.0 | JTSS-M30(*)-300 | JTSS-M30(*)-450 | JTSS-M30(*)-600 |
| | 4.5 | JTSS-M45(*)-300 | JTSS-M45(*)-450 | JTSS-M45(*)-600 |
| | 6.0 | JTSS-M60(*)-300 | JTSS-M60(*)-450 | JTSS-M60(*)-600 |
| CHROMEGA®-ALOMEGA® Inconel Sheath K | 1.5 | KTIN-M15(*)-300 | KTIN-M15(*)-450 | KTIN-M15(*)-600 |
| | 3.0 | KTIN-M30(*)-300 | KTIN-M30(*)-450 | KTIN-M30(*)-600 |
| | 4.5 | KTIN-M45(*)-300 | KTIN-M45(*)-450 | KTIN-M45(*)-600 |
| | 6.0 | KTIN-M45(*)-300 | KTIN-M45(*)-450 | KTIN-M45(*)-600 |
| CHROMEGA®-ALOMEGA® 304 SS Sheath K | 1.5 | KTSS-M15(*)-300 | KTSS-M15(*)-450 | KTSS-M15(*)-600 |
| | 3.0 | KTSS-M30(*)-300 | KTSS-M30(*)-450 | KTSS-M30(*)-600 |
| | 4.5 | KTSS-M45(*)-300 | KTSS-M45(*)-450 | KTSS-M45(*)-600 |
| | 6.0 | KTSS-M60(*)-300 | KTSS-M60(*)-450 | KTSS-M60(*)-600 |
| CHROMEGA®-ALOMEGA® Super OMEGACLAD® XL Sheath K | 1.5 | KTXL-M15(*)-300 | KTXL-M15(*)-450 | KTXL-M15(*)-600 |
| | 3.0 | KTXL-M30(*)-300 | KTXL-M30(*)-450 | KTXL-M30(*)-600 |
| | 4.5 | KTXL-M45(*)-300 | KTXL-M45(*)-450 | KTXL-M45(*)-600 |
| | 6.0 | KTXL-M60(*)-300 | KTXL-M60(*)-450 | KTXL-M60(*)-600 |
| OMEGA-P®- †† OMEGA-N® Super OMEGACLAD® XL Sheath N | 1.5 | NTXL-M15(*)-300 | NTXL-M15(*)-450 | NTXL-M15(*)-600 |
| | 3.0 | NTXL-M30(*)-300 | NTXL-M30(*)-450 | NTXL-M30(*)-600 |
| | 4.5 | NTXL-M45(*)-300 | NTXL-M45(*)-450 | NTXL-M45(*)-600 |
| | 6.0 | NTXL-M60(*)-300 | NTXL-M60(*)-450 | NTXL-M60(*)-600 |
| CHROMEGA®-CONSTANTAN Inconel Sheath E | 1.5 | ETIN-M15(*)-300 | ETIN-M15(*)-450 | ETIN-M15(*)-600 |
| | 3.0 | ETIN-M30(*)-300 | ETIN-M30(*)-450 | ETIN-M30(*)-600 |
| | 4.5 | ETIN-M45(*)-300 | ETIN-M45(*)-450 | ETIN-M45(*)-600 |
| | 6.0 | ETIN-M60(*)-300 | ETIN-M60(*)-450 | ETIN-M60(*)-600 |
| CHROMEGA®-CONSTANTAN 304 SS Sheath E | 1.5 | ETSS-M15(*)-300 | ETSS-M15(*)-450 | ETSS-M15(*)-600 |
| | 3.0 | ETSS-M30(*)-300 | ETSS-M30(*)-450 | ETSS-M30(*)-600 |
| | 4.5 | ETSS-M45(*)-300 | ETSS-M45(*)-450 | ETSS-M45(*)-600 |
| | 6.0 | ETSS-M60(*)-300 | ETSS-M60(*)-450 | ETSS-M60(*)-600 |
| COPPER-CONSTANTAN Inconel Sheath T | 1.5 | TTIN-M15(*)-300 | TTIN-M15(*)-450 | TTIN-M15(*)-600 |
| | 3.0 | TTIN-M30(*)-300 | TTIN-M30(*)-450 | TTIN-M30(*)-600 |
| | 4.5 | TTIN-M45(*)-300 | TTIN-M45(*)-450 | TTIN-M45(*)-600 |
| | 6.0 | TTIN-M60(*)-300 | TTIN-M60(*)-450 | TTIN-M60(*)-600 |
| COPPER-CONSTANTAN 304 SS Sheath T | 1.5 | TTSS-M15(*)-300 | TTSS-M15(*)-450 | TTSS-M15(*)-600 |
| | 3.0 | TTSS-M30(*)-300 | TTSS-M30(*)-450 | TTSS-M30(*)-600 |
| | 4.5 | TTSS-M45(*)-300 | TTSS-M45(*)-450 | TTSS-M45(*)-600 |
| | 6.0 | TTSS-M60(*)-300 | TTSS-M60(*)-450 | TTSS-M60(*)-600 |

** Specify junction type: **"E"** (exposed), **"G"** (grounded) or **"U"** (ungrounded). †Other lengths are available, consult Sales Department. ††Supplied with stainless steel transition joints. To order with 310, 316 or 321 SS sheath, change **"SS"** in model number to **"310SS"**, **"316SS"** or **"321SS"** respectively; no additional cost. Consult Sales for lengths between 50 and 300 mm, or for lengths over 600 mm. Type N Inconel sheathing is available, contact Sales for model numbers. **Ordering Examples: JT321SS-M15U-600,** Type J molded transition probe, 1.5 mm Dia., 321 SS sheath, ungrounded junction, 600 mm L. **KTSS-18G-12**, molded transition junction probe, Type K, 6.0 mm OD, 304 SS sheath, grounded junction, 300 mm L.*

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