

High Temperature Thermocouple Assemblies

With Molded Transition Junctions $\frac{1}{16}$ to $\frac{1}{4}$ " Diameters

Standard Dimensions

Shown actual size.

OMEGACAL™
Factory CAL
AVAILABLE

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

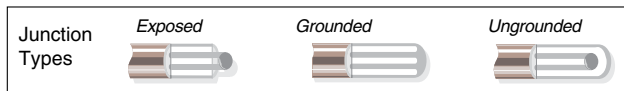
ANSI
color
code
shown



- ✓ 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)
- ✓ Color-Coded to Calibration
- ✓ 40" Teflon® 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). The calibration letter code is an integral part of the mold.



To Order Visit newportUS.com/JKETINSS for Pricing and Details

Thermocouple Alloy		Sheath Dia. (in)	Model No. 12" Length	Model No. 18" Length	Model No. 24" Length
IRON-CONSTANTAN	J	$\frac{1}{16}$ "	JTIN-116(*)-12	JTIN-116(*)-18	JTIN-116(*)-24
Inconel		$\frac{1}{8}$ "	JTIN-18(*)-12	JTIN-18(*)-18	JTIN-18(*)-24
Sheath		$\frac{3}{16}$ "	JTIN-316(*)-12	JTIN-316(*)-18	JTIN-316(*)-24
		$\frac{1}{4}$ "	JTIN-14(*)-12	JTIN-14(*)-18	JTIN-14(*)-24
IRON-CONSTANTAN	J	$\frac{1}{16}$ "	JTSS-116(*)-12	JTSS-116(*)-18	JTSS-116(*)-24
304 SS		$\frac{1}{8}$ "	JTSS-18(*)-12	JTSS-18(*)-18	JTSS-18(*)-24
Sheath		$\frac{3}{16}$ "	JTSS-316(*)-12	JTSS-316(*)-18	JTSS-316(*)-24
		$\frac{1}{4}$ "	JTSS-14(*)-12	JTSS-14(*)-18	JTSS-14(*)-24
CHROMEGLA®-ALOMEGA®	K	$\frac{1}{16}$ "	KTIN-116(*)-12	KTIN-116(*)-18	KTIN-116(*)-24
Inconel		$\frac{1}{8}$ "	KTIN-18(*)-12	KTIN-18(*)-18	KTIN-18(*)-24
Sheath		$\frac{3}{16}$ "	KTIN-316(*)-12	KTIN-316(*)-18	KTIN-316(*)-24
		$\frac{1}{4}$ "	KTIN-14(*)-12	KTIN-14(*)-18	KTIN-14(*)-24
CHROMEGLA®-ALOMEGA®	K	$\frac{1}{16}$ "	KTSS-116(*)-12	KTSS-116(*)-18	KTSS-116(*)-24
304 SS		$\frac{1}{8}$ "	KTSS-18(*)-12	KTSS-18(*)-18	KTSS-18(*)-24
Sheath		$\frac{3}{16}$ "	KTSS-316(*)-12	KTSS-316(*)-18	KTSS-316(*)-24
		$\frac{1}{4}$ "	KTSS-14(*)-12	KTSS-14(*)-18	KTSS-14(*)-24
CHROMEGLA®-ALOMEGA®	K	$\frac{1}{16}$ "	KTXL-116(*)-12	KTXL-116(*)-18	KTXL-116(*)-24
Super OMEGACLAD® XL		$\frac{1}{8}$ "	KTXL-18(*)-12	KTXL-18(*)-18	KTXL-18(*)-24
Sheath		$\frac{3}{16}$ "	KTXL-316(*)-12	KTXL-316(*)-18	KTXL-316(*)-24
		$\frac{1}{4}$ "	KTXL-14(*)-12	KTXL-14(*)-18	KTXL-14(*)-24
OMEGA-P®-††	N	$\frac{1}{16}$ "	NTXL-116(*)-12	NTXL-116(*)-18	NTXL-116(*)-24
OMEGA-N®		$\frac{1}{8}$ "	NTXL-18(*)-12	NTXL-18(*)-18	NTXL-18(*)-24
Super OMEGACLAD® XL		$\frac{3}{16}$ "	NTXL-316(*)-12	NTXL-316(*)-18	NTXL-316(*)-24
Sheath		$\frac{1}{4}$ "	NTXL-14(*)-12	NTXL-14(*)-18	NTXL-14(*)-24
CHROMEGLA®-CONSTANTAN	E	$\frac{1}{16}$ "	ETIN-116(*)-12	ETIN-116(*)-18	ETIN-116(*)-24
Inconel		$\frac{1}{8}$ "	ETIN-18(*)-12	ETIN-18(*)-18	ETIN-18(*)-24
Sheath		$\frac{3}{16}$ "	ETIN-316(*)-12	ETIN-316(*)-18	ETIN-316(*)-24
		$\frac{1}{4}$ "	ETIN-14(*)-12	ETIN-14(*)-18	ETIN-14(*)-24
CHROMEGLA®-CONSTANTAN	E	$\frac{1}{16}$ "	ETSS-116(*)-12	ETSS-116(*)-18	ETSS-116(*)-24
304 SS		$\frac{1}{8}$ "	ETSS-18(*)-12	ETSS-18(*)-18	ETSS-18(*)-24
Sheath		$\frac{3}{16}$ "	ETSS-316(*)-12	ETSS-316(*)-18	ETSS-316(*)-24
		$\frac{1}{4}$ "	ETSS-14(*)-12	ETSS-14(*)-18	ETSS-14(*)-24
COPPER-CONSTANTAN	T	$\frac{1}{16}$ "	TTIN-116(*)-12	TTIN-116(*)-18	TTIN-116(*)-24
Inconel		$\frac{1}{8}$ "	TTIN-18(*)-12	TTIN-18(*)-18	TTIN-18(*)-24
Sheath		$\frac{3}{16}$ "	TTIN-316(*)-12	TTIN-316(*)-18	TTIN-316(*)-24
		$\frac{1}{4}$ "	TTIN-14(*)-12	TTIN-14(*)-18	TTIN-14(*)-24
COPPER-CONSTANTAN	T	$\frac{1}{16}$ "	TTSS-116(*)-12	TTSS-116(*)-18	TTSS-116(*)-24
304 SS		$\frac{1}{8}$ "	TTSS-18(*)-12	TTSS-18(*)-18	TTSS-18(*)-24
Sheath		$\frac{3}{16}$ "	TTSS-316(*)-12	TTSS-316(*)-18	TTSS-316(*)-24
		$\frac{1}{4}$ "	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, $\frac{1}{16}$ " Dia., 321 SS sheath, ungrounded junction, 24" L. KTSS-18G-12, molded transition junction probe, Type K, $\frac{1}{8}$ " OD, 304 SS sheath, grounded junction, 12" L.

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

Metric Dimensions

Shown actual size.

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

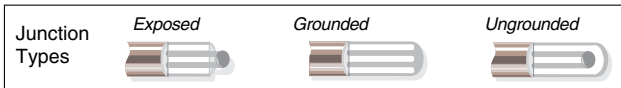
ANSI
color
code
shown



- 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)
- Color-Coded to Calibration
- 1 m Teflon® 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). The calibration letter code is an integral part of the mold.



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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 3.0 4.5 6.0	JTIN-M15(*)-300 JTIN-M30(*)-300 JTIN-M45(*)-300 JTIN-M60(*)-300	JTIN-M15(*)-450 JTIN-M30(*)-450 JTIN-M45(*)-450 JTIN-M60(*)-450	JTIN-M15(*)-600 JTIN-M30(*)-600 JTIN-M45(*)-600 JTIN-M60(*)-600
IRON-CONSTANTAN 304 SS Sheath	J 1.5 3.0 4.5 6.0	JTSS-M15(*)-300 JTSS-M30(*)-300 JTSS-M45(*)-300 JTSS-M60(*)-300	JTSS-M15(*)-450 JTSS-M30(*)-450 JTSS-M45(*)-450 JTSS-M60(*)-450	JTSS-M15(*)-600 JTSS-M30(*)-600 JTSS-M45(*)-600 JTSS-M60(*)-600
CHROMEGA®-ALOMEGA® Inconel Sheath	K 1.5 3.0 4.5 6.0	KTIN-M15(*)-300 KTIN-M30(*)-300 KTIN-M45(*)-300 KTIN-M45(*)-300	KTIN-M15(*)-450 KTIN-M30(*)-450 KTIN-M45(*)-450 KTIN-M45(*)-450	KTIN-M15(*)-600 KTIN-M30(*)-600 KTIN-M45(*)-600 KTIN-M45(*)-600
CHROMEGA®-ALOMEGA® 304 SS Sheath	K 1.5 3.0 4.5 6.0	KTSS-M15(*)-300 KTSS-M30(*)-300 KTSS-M45(*)-300 KTSS-M60(*)-300	KTSS-M15(*)-450 KTSS-M30(*)-450 KTSS-M45(*)-450 KTSS-M60(*)-450	KTSS-M15(*)-600 KTSS-M30(*)-600 KTSS-M45(*)-600 KTSS-M60(*)-600
CHROMEGA®-ALOMEGA® Super OMEGACLAD® XL Sheath	K 1.5 3.0 4.5 6.0	KTXL-M15(*)-300 KTXL-M30(*)-300 KTXL-M45(*)-300 KTXL-M60(*)-300	KTXL-M15(*)-450 KTXL-M30(*)-450 KTXL-M45(*)-450 KTXL-M60(*)-450	KTXL-M15(*)-600 KTXL-M30(*)-600 KTXL-M45(*)-600 KTXL-M60(*)-600
OMEGA-P®-†† OMEGA-N® Super OMEGACLAD® XL Sheath	N 1.5 3.0 4.5 6.0	NTXL-M15(*)-300 NTXL-M30(*)-300 NTXL-M45(*)-300 NTXL-M60(*)-300	NTXL-M15(*)-450 NTXL-M30(*)-450 NTXL-M45(*)-450 NTXL-M60(*)-450	NTXL-M15(*)-600 NTXL-M30(*)-600 NTXL-M45(*)-600 NTXL-M60(*)-600
CHROMEGA®-CONSTANTAN Inconel Sheath	E 1.5 3.0 4.5 6.0	ETIN-M15(*)-300 ETIN-M30(*)-300 ETIN-M45(*)-300 ETIN-M60(*)-300	ETIN-M15(*)-450 ETIN-M30(*)-450 ETIN-M45(*)-450 ETIN-M60(*)-450	ETIN-M15(*)-600 ETIN-M30(*)-600 ETIN-M45(*)-600 ETIN-M60(*)-600
CHROMEGA®-CONSTANTAN 304 SS Sheath	E 1.5 3.0 4.5 6.0	ETSS-M15(*)-300 ETSS-M30(*)-300 ETSS-M45(*)-300 ETSS-M60(*)-300	ETSS-M15(*)-450 ETSS-M30(*)-450 ETSS-M45(*)-450 ETSS-M60(*)-450	ETSS-M15(*)-600 ETSS-M30(*)-600 ETSS-M45(*)-600 ETSS-M60(*)-600
COPPER-CONSTANTAN Inconel Sheath	T 1.5 3.0 4.5 6.0	TTIN-M15(*)-300 TTIN-M30(*)-300 TTIN-M45(*)-300 TTIN-M60(*)-300	TTIN-M15(*)-450 TTIN-M30(*)-450 TTIN-M45(*)-450 TTIN-M60(*)-450	TTIN-M15(*)-600 TTIN-M30(*)-600 TTIN-M45(*)-600 TTIN-M60(*)-600
COPPER-CONSTANTAN 304 SS Sheath	T 1.5 3.0 4.5 6.0	TTSS-M15(*)-300 TTSS-M30(*)-300 TTSS-M45(*)-300 TTSS-M60(*)-300	TTSS-M15(*)-450 TTSS-M30(*)-450 TTSS-M45(*)-450 TTSS-M60(*)-450	TTSS-M15(*)-600 TTSS-M30(*)-600 TTSS-M45(*)-600 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.