

# High Temperature Quick Disconnect Thermocouples

## Standard Dimensions

Available as  
**SUPER OMEGA CLAD<sup>XL</sup>**  
THERMOCOUPLE PROBES  
MAXIMUM PERFORMANCE SHEATHING  
ELIMINATES HIGH TEMPERATURE DRIFT  
See page A-43 to A-48.

ANSI color code shown  
To order IEC color code see page A-9

MEETS OR EXCEEDS SPECIAL LIMITS OF ERROR (SLE) AND EN 60584-2: Tolerance Class 1  
OMEGACAL Factory CAL AVAILABLE MADE IN USA  
See Section I

Available! Type-N with Inconel Sheath Consult Sales

- ✓ Features SHX or NHX Type Ceramic Connector Rated to 650°C (1200°F)
- ✓ 304, 310, 316, 321 SS, Inconel or Super OMEGA CLAD<sup>XL</sup> Sheath
- ✓ Tube Clamp Included for Extra Strength for Standard Size
- ✓ Includes Free Mating Connector



### Standard Dimension, Standard Size

**MOST POPULAR MODELS HIGHLIGHTED!**

Alloy/ANSI Color Code	Sheath Dia.	Model Number Grounded Junction	Price	Model Number Ungrounded Junction	Price	Model Number Exposed Junction	Price	Price/Add'l 12"
IRON-CONSTANTAN 304 SS Sheath <b>J</b>	1/16"	ICSS-116G-12-NHX	\$36.50	ICSS-116U-12-NHX	\$38.50	ICSS-116E-12-NHX	\$36.50	\$1.55
	1/8"	ICSS-18G-12-NHX	36.50	ICSS-18U-12-NHX	38.50	ICSS-18E-12-NHX	36.50	1.85
	3/16"	ICSS-316G-12-NHX	37.50	ICSS-316U-12-NHX	39.50	ICSS-316E-12-NHX	37.50	3.15
	1/4"	ICSS-14G-12-NHX	40.50	ICSS-14U-12-NHX	42.50	ICSS-14E-12-NHX	40.50	5.00
CHROMEALOMEGA <sup>®</sup> * 304 SS Sheath <b>K</b>	1/16"	CASS-116G-12-NHX	\$36.50	CASS-116U-12-NHX	\$38.50	CASS-116E-12-NHX	\$36.50	\$1.55
	1/8"	CASS-18G-12-NHX	36.50	CASS-18U-12-NHX	38.50	CASS-18E-12-NHX	36.50	1.85
	3/16"	CASS-316G-12-NHX	37.50	CASS-316U-12-NHX	39.50	CASS-316E-12-NHX	37.50	3.15
	1/4"	CASS-14G-12-NHX	40.50	CASS-14U-12-NHX	42.50	CASS-14E-12-NHX	40.50	5.00
CHROMEALOMEGA <sup>®</sup> -CONSTANTAN 304 SS Sheath <b>E</b>	1/16"	CXSS-116G-12-NHX	\$36.50	CXSS-116U-12-NHX	\$38.50	CXSS-116E-12-NHX	\$36.50	\$1.55
	1/8"	CXSS-18G-12-NHX	36.50	CXSS-18U-12-NHX	38.50	CXSS-18E-12-NHX	36.50	2.50
	3/16"	CXSS-316G-12-NHX	37.50	CXSS-316U-12-NHX	39.50	CXSS-316E-12-NHX	37.50	3.15
	1/4"	CXSS-14G-12-NHX	40.50	CXSS-14U-12-NHX	42.50	CXSS-14E-12-NHX	40.50	5.00
COPPER-CONSTANTAN 304 SS Sheath <b>T</b>	1/16"	CPSS-116G-12-NHX	\$36.50	CPSS-116U-12-NHX	\$38.50	CPSS-116E-12-NHX	\$36.50	\$1.55
	1/8"	CPSS-18G-12-NHX	36.50	CPSS-18U-12-NHX	38.50	CPSS-18E-12-NHX	36.50	2.50
	3/16"	CPSS-316G-12-NHX	37.50	CPSS-316U-12-NHX	39.50	CPSS-316E-12-NHX	37.50	3.15
	1/4"	CPSS-14G-12-NHX	40.50	CPSS-14U-12-NHX	42.50	CPSS-14E-12-NHX	40.50	5.00

All products shown smaller than actual size.

See page A-131 for compression fittings



### Standard Dimension, Miniature Size

Alloy/ANSI Color Code	Sheath Dia. inches	Model Number Grounded Junction	Price	Model Number Ungrounded Junction	Price	Model Number Exposed Junction	Price	Price/Add'l 6"
IRON-CONSTANTAN 304 SS Sheath <b>J</b>	0.010"	SICSS-010G-6-SHX	\$57.50	SICSS-010U-6-SHX	\$77.50	SICSS-010E-6-SHX	\$57.50	\$1.25
	0.020"	SICSS-020G-6-SHX	37.50	SICSS-020U-6-SHX	39.50	SICSS-020E-6-SHX	37.50	0.65
	0.032"	SICSS-032G-6-SHX	37.50	SICSS-032U-6-SHX	39.50	SICSS-032E-6-SHX	37.50	0.65
	0.040"	SICSS-040G-6-SHX	37.50	SICSS-040U-6-SHX	39.50	SICSS-040E-6-SHX	37.50	0.65
	0.062"	SICSS-062G-6-SHX	33.50	SICSS-062U-6-SHX	35.50	SICSS-062E-6-SHX	33.50	0.80
	0.125"	SICSS-125G-6-SHX	33.50	SICSS-125U-6-SHX	35.50	SICSS-125E-6-SHX	33.50	0.95
CHROMEALOMEGA <sup>®</sup> * 304 SS Sheath <b>K</b>	0.010"	SCASS-010G-6-SHX	\$57.50	SCASS-010U-6-SHX	\$77.50	SCASS-010E-6-SHX	\$57.50	\$1.25
	0.020"	SCASS-020G-6-SHX	37.50	SCASS-020U-6-SHX	39.50	SCASS-020E-6-SHX	37.50	0.65
	0.032"	SCASS-032G-6-SHX	37.50	SCASS-032U-6-SHX	39.50	SCASS-032E-6-SHX	37.50	0.65
	0.040"	SCASS-040G-6-SHX	37.50	SCASS-040U-6-SHX	39.50	SCASS-040E-6-SHX	37.50	0.65
	0.062"	SCASS-062G-6-SHX	33.50	SCASS-062U-6-SHX	35.50	SCASS-062E-6-SHX	33.50	0.80
	0.125"	SCASS-125G-6-SHX	33.50	SCASS-125U-6-SHX	35.50	SCASS-125E-6-SHX	33.50	0.95
CHROMEALOMEGA <sup>®</sup> -CONSTANTAN 304 SS Sheath <b>E</b>	0.010"	SCXSS-010G-6-SHX	\$57.50	SCXSS-010U-6-SHX	\$77.50	SCXSS-010E-6-SHX	\$57.50	\$1.25
	0.020"	SCXSS-020G-6-SHX	37.50	SCXSS-020U-6-SHX	39.50	SCXSS-020E-6-SHX	37.50	0.65
	0.032"	SCXSS-032G-6-SHX	37.50	SCXSS-032U-6-SHX	39.50	SCXSS-032E-6-SHX	37.50	0.65
	0.040"	SCXSS-040G-6-SHX	37.50	SCXSS-040U-6-SHX	39.50	SCXSS-040E-6-SHX	37.50	0.65
	0.062"	SCXSS-062G-6-SHX	33.50	SCXSS-062U-6-SHX	35.50	SCXSS-062E-6-SHX	33.50	0.80
	0.125"	SCXSS-125G-6-SHX	33.50	SCXSS-125U-6-SHX	35.50	SCXSS-125E-6-SHX	33.50	0.95
COPPER-CONSTANTAN 304 SS Sheath <b>T</b>	0.020"	SCPSS-020G-6-SHX	\$57.50	SCPSS-020U-6-SHX	\$39.50	SCPSS-020E-6-SHX	\$37.50	\$0.65
	0.032"	SCPSS-032G-6-SHX	37.50	SCPSS-032U-6-SHX	39.50	SCPSS-032E-6-SHX	37.50	0.65
	0.040"	SCPSS-040G-6-SHX	37.50	SCPSS-040U-6-SHX	39.50	SCPSS-040E-6-SHX	37.50	0.65
	0.062"	SCPSS-062G-6-SHX	33.50	SCPSS-062U-6-SHX	35.50	SCPSS-062E-6-SHX	33.50	0.80
	0.125"	SCPSS-125G-6-SHX	33.50	SCPSS-125U-6-SHX	35.50	SCPSS-125E-6-SHX	33.50	0.95

<sup>†</sup>Other lengths available, consult Sales department. **Note:** Inconel<sup>®</sup> sheath not available in 0.010" OD with Type T.

\* 0.010" OD sheath probes are assembled with cable clamp.

To order with 310 SS, 316 SS or 321 SS sheath, change "SS" in model number to "310SS", "316SS" or "321SS" respectively. No additional cost.

To order with Inconel 600 sheath, change "SS" in model number to "IN". No add'l cost.

To Order Super OMEGA CLAD<sup>XL</sup>, change "SS" to "XL" and add \$3 to price of Inconel 6" and 12" probes.

Ordering Example: CASS-18G-12-NHX, high temperature quick disconnect probe, Type K, 304 SS sheath, 1/8" OD, grounded junction, 12" length, \$36.50. SCASS-062U-6-SHX, high temperature miniature quick disconnect probe, Type K, 321SS sheath, 0.062" OD, ungrounded junction, 6" long, \$35.50.

# High Temperature Quick Disconnect Thermocouples

## Metric Dimensions

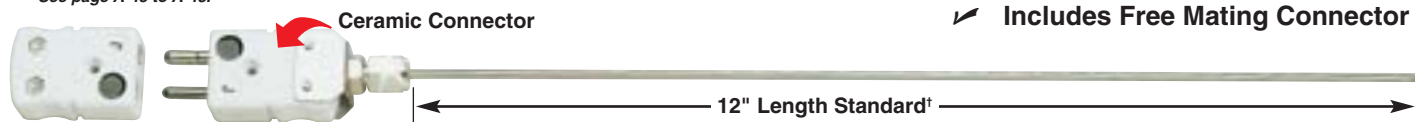
Available as  
**SUPER OMEGACLAD™ XL**  
THERMOCOUPLE PROBES  
MAXIMUM PERFORMANCE SHEATHING  
ELIMINATES HIGH TEMPERATURE DRIFT  
See page A-43 to A-48.

ANSI color code shown  
To order IEC color code see page A-9

MEETS OR EXCEEDS SPECIAL LIMITS OF ERROR (SLE) AND EN 60584-2: Tolerance Class 1  
OMEGACLAD™ Factory CAL AVAILABLE  
MADE IN USA  
See Section I

Available! Type-N with Inconel Sheath Consult Sales

- ✓ Features SHX or NHX Type Ceramic Connector Rated to 650°C (1200°F)
- ✓ 304, 310, 316, 321 SS, Inconel or Super OMEGACLAD™ XL Sheath
- ✓ Tube Clamp Included for Extra Strength for Standard Size
- ✓ Includes Free Mating Connector



### Metric Dimension, Standard Size

**MOST POPULAR MODELS HIGHLIGHTED!**

Alloy/ANSI Color Code	Sheath Dia. mm	Model Number Grounded Junction	Price	Model Number Ungrounded Junction	Price	Model Number Exposed Junction	Price	Price/Add'l 300mm
IRON-CONSTANTAN 304 SS Sheath <b>J</b>	1.5	ICSS-M15G-300-NHX	\$36.50	ICSS-M15U-300-NHX	\$38.50	ICSS-M15E-300-NHX	\$36.50	\$1.55
	3.0	ICSS-M30G-300-NHX	36.50	ICSS-M30U-300-NHX	38.50	ICSS-M30E-300-NHX	36.50	1.85
	4.5	ICSS-M45G-300-NHX	37.50	ICSS-M45U-300-NHX	39.50	ICSS-M45E-300-NHX	37.50	3.15
	6.0	ICSS-M60G-300-NHX	40.50	ICSS-M60U-300-NHX	42.50	ICSS-M60E-300-NHX	40.50	5.00
CHROMEGA®-ALOMEGA®* 304 SS Sheath <b>K</b>	1.5	CASS-M15G-300-NHX	\$36.50	CASS-M15U-300-NHX	\$38.50	CASS-M15E-300-NHX	\$36.50	\$1.55
	3.0	CASS-M30G-300-NHX	36.50	CASS-M30U-300-NHX	38.50	CASS-M30E-300-NHX	36.50	1.85
	4.5	CASS-M45G-300-NHX	37.50	CASS-M45U-300-NHX	39.50	CASS-M45E-300-NHX	37.50	3.15
	6.0	CASS-M60G-12-NHX	40.50	CASS-M60U-300-NHX	42.50	CASS-M60E-300-NHX	40.50	5.00
CHROMEGA®-CONSTANTAN 304 SS Sheath <b>E</b>	1.5	CXSS-M15G-300-NHX	\$36.50	CXSS-M15U-300-NHX	\$38.50	CXSS-M15E-300-NHX	\$36.50	\$1.55
	3.0	CXSS-M30G-300-NHX	36.50	CXSS-M30U-300-NHX	38.50	CXSS-M30E-300-NHX	36.50	2.50
	4.5	CXSS-M45G-300-NHX	37.50	CXSS-M45U-300-NHX	39.50	CXSS-M45E-300-NHX	37.50	3.15
	6.0	CXSS-M60G-300-NHX	40.50	CXSS-M60U-300-NHX	42.50	CXSS-M60E-300-NHX	40.50	5.00
COPPER-CONSTANTAN 304 SS Sheath <b>T</b>	1.5	CPSS-M15G-300-NHX	\$36.50	CPSS-M15U-300-NHX	\$38.50	CPSS-M15E-300-NHX	\$36.50	\$1.55
	3.0	CPSS-M30G-300-NHX	36.50	CPSS-M30U-300-NHX	38.50	CPSS-M30E-300-NHX	36.50	2.50
	4.5	CPSS-M45G-300-NHX	37.50	CPSS-M45U-300-NHX	39.50	CPSS-M45E-300-NHX	37.50	3.15
	6.0	CPSS-M60G-300-NHX	40.50	CPSS-M60U-300-NHX	42.50	CPSS-M60E-300-NHX	40.50	5.00

All products shown smaller than actual size.

See page A-131 for compression fittings



### Metric Dimension, Miniature Size

Alloy/ANSI Color Code	Sheath Dia. mm	Model Number Grounded Junction	Price	Model Number Ungrounded Junction	Price	Model Number Exposed Junction	Price	Price/Add'l 150 mm
IRON-CONSTANTAN 304 SS Sheath <b>J</b>	0.25*	SICSS-M025G-150-SHX	\$57.50	SICSS-M025U-150-SHX	\$77.50	SICSS-M025E-150-SHX	\$57.50	\$1.25
	0.50	SICSS-M050G-150-SHX	37.50	SICSS-M050U-150-SHX	39.50	SICSS-M050E-150-SHX	37.50	0.65
	0.75	SICSS-M075G-150-SHX	37.50	SICSS-M075U-150-SHX	39.50	SICSS-M075E-150-SHX	37.50	0.65
	1.0	SICSS-M10G-150-SHX	37.50	SICSS-M10U-150-SHX	39.50	SICSS-M10E-150-SHX	37.50	0.65
	1.5	SICSS-M15G-150-SHX	33.50	SICSS-M15U-150-SHX	35.50	SICSS-M15E-150-SHX	33.50	0.80
	3.0	SICSS-M30G-150-SHX	33.50	SICSS-M30U-150-SHX	35.50	SICSS-M30E-150-SHX	33.50	0.95
CHROMEGA®-ALOMEGA®* 304 SS Sheath <b>K</b>	0.25*	SCASS-M025G-150-SHX	\$57.50	SCASS-M025U-150-SHX	\$77.50	SCASS-M025E-150-SHX	\$57.50	\$1.25
	0.50	SCASS-M050G-150-SHX	37.50	SCASS-M050U-150-SHX	39.50	SCASS-M050E-150-SHX	37.50	0.65
	0.75	SCASS-M075G-150-SHX	37.50	SCASS-M075U-150-SHX	39.50	SCASS-M075E-150-SHX	37.50	0.65
	1.0	SCASS-M10G-150-SHX	37.50	SCASS-M10U-150-SHX	39.50	SCASS-M10E-150-SHX	37.50	0.65
	1.5	SCASS-M15G-150-SHX	33.50	SCASS-M15U-150-SHX	35.50	SCASS-M15E-150-SHX	33.50	0.80
	3.0	SCASS-M30G-150-SHX	33.50	SCASS-M30U-150-SHX	35.50	SCASS-M30E-150-SHX	33.50	0.95
CHROMEGA®-CONSTANTAN 304 SS Sheath <b>E</b>	0.25*	SCXSS-M025G-150-SHX	\$57.50	SCXSS-M025U-150-SHX	\$77.50	SCXSS-M025E-150-SHX	\$57.50	\$1.25
	0.50	SCXSS-M050G-150-SHX	37.50	SCXSS-M050U-150-SHX	39.50	SCXSS-M050E-150-SHX	37.50	0.65
	0.75	SCXSS-M075G-150-SHX	37.50	SCXSS-M075U-150-SHX	39.50	SCXSS-M075E-150-SHX	37.50	0.65
	1.0	SCXSS-M10G-150-SHX	37.50	SCXSS-M10U-150-SHX	39.50	SCXSS-M10E-150-SHX	37.50	0.65
	1.5	SCXSS-M15G-150-SHX	33.50	SCXSS-M15U-150-SHX	35.50	SCXSS-M15E-150-SHX	33.50	0.80
	3.0	SCXSS-M30G-150-SHX	33.50	SCXSS-M30U-150-SHX	35.50	SCXSS-M30E-150-SHX	33.50	0.95
COPPER-CONSTANTAN 304 SS Sheath <b>T</b>	0.50	SCPSS-M050G-150-SHX	\$57.50	SCPSS-M050U-150-SHX	\$39.50	SCPSS-M050E-150-SHX	\$37.50	\$0.65
	0.75	SCPSS-M075G-150-SHX	37.50	SCPSS-M075U-150-SHX	39.50	SCPSS-M075E-150-SHX	37.50	0.65
	1.0	SCPSS-M10G-150-SHX	37.50	SCPSS-M10U-150-SHX	39.50	SCPSS-M10E-150-SHX	37.50	0.65
	1.5	SCPSS-M15G-150-SHX	33.50	SCPSS-M15U-150-SHX	35.50	SCPSS-M15E-150-SHX	33.50	0.80
	3.0	SCPSS-M30G-150-SHX	33.50	SCPSS-M30U-150-SHX	35.50	SCPSS-M30E-150-SHX	33.50	0.95

† Other lengths available, consult Sales Department. **Note:** Inconel sheath not available in 0.25 mm OD with Type T.

\* 0.25 mm OD sheath probes are assembled with cable clamp.

To order with 310 SS, 316 SS or 321 SS sheath, change "SS" in model number to "310SS", "316SS" or "321SS" respectively. No add'l cost.

To order with Inconel 600 sheath, change "SS" in model number to "IN" No add'l cost.

To Order Super OMEGACLAD™ XL change "SS" to "XL" and add \$3 to price of Inconel 150 and 300 mm probes.

Ordering Example: CASS-M30G-300-NHX, high temperature quick disconnect probe, Type K, 304 SS sheath, 3 mm OD, grounded junction, 300 mm length, \$36.50. SCASS-M15U-150-SHX, high temperature miniature quick disconnect probe, Type K, 321SS sheath, 1.5 mm OD, ungrounded junction, 150 mm long, \$35.50.



#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

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1-800-TC-OMEGA

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0800-8266342

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0800-488-488

#### FRANCE

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088-466-342

#### CZECH REPUBLIC

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