

# Dual OMEGACLAD® Thermocouple Wire

0.040 to 0.250 inch Diameter



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

Four-Wire Construction!

Available with 304SS, 310SS, 316SS, 321SS, INCONEL 600, Hastelloy-X and SUPER OMEGACLAD® XL Sheaths!

Shown larger than actual size.

CONTINUOUS LENGTHS AVAILABLE! CONSULT SALES FOR PRICING AND AVAILABILITY

MADE WITH HIGH PURITY MAGNESIUM OXIDE (MgO)

Discount Schedule		
Metric	Feet	Net
0 to 3 m	0 to 10'	
3.1 to 7.5 m	11 to 25'	10%
7.6 to 15 m	26 to 50'	25%
15.1 to 30 m	51 to 100'	30%
30.1 to 150 m	101 to 500'	35%
151 to 300 m	501 to 1000'	40%
Over 300 m or 1000'		45%

## Technical Notes:

OMEGACLAD® wire can be made into a grounded junction probe and inserted into a pipe with compression fitting.

**Insulation** Compacted magnesium oxide is hygroscopic (absorbs moisture)

Type N Available with Inconel Sheath

- ✓ Easily Bendable
- ✓ Durable
- ✓ Withstands Vibration
- ✓ Enables a Split Signal
- ✓ Can Be Welded
- ✓ High Temperature Applications
- ✓ Withstands Pressures
- ✓ Available from **STOCK!** Cut to Length or Long Continuous Lengths

OMEGACLAD® dual pair wire can be made into a single probe that enables transmission of a "split signal". This double signal can be attached to a controller and chart recorder at the same time to monitor and control the same temperature location.

Available in these sizes:



## MOST POPULAR MODELS HIGHLIGHTED!

Model Number	Wire Calibration	Sheath Material	Sheath Diameter (in)	Wall Thickness (in)	Resistance at 60°F Ω/ Dbl. ft.	Wire Diameter (in)	AWG Gage	Price/Foot*
304-J-MO-040-DUAL-(*), 304-J-MO-062-DUAL-(*), 304-J-MO-125-DUAL-(*), 304-J-MO-188-DUAL-(*), 304-J-MO-250-DUAL-(*)	Iron-Constantan <b>J</b>	304 Stainless Steel	0.040, 0.062, 0.125, 0.188, 0.250	0.006, 0.010, 0.018, 0.025, 0.036	8.9, 3.6, 0.88, 0.36, 0.22	0.005, 0.010, 0.020, 0.032, 0.040	36, 30, 24, 20, 18	\$1.95, 1.95, 2.30, 3.95, 6.25
INC-J-MO-040-DUAL-(*), INC-J-MO-062-DUAL-(*), INC-J-MO-125-DUAL-(*), INC-J-MO-188-DUAL-(*), INC-J-MO-250-DUAL-(*)	Iron-Constantan <b>J</b>	Inconel 600	0.040, 0.062, 0.125, 0.188, 0.250	0.006, 0.010, 0.018, 0.025, 0.036	8.9, 3.6, 0.88, 0.36, 0.22	0.005, 0.010, 0.020, 0.032, 0.040	36, 30, 24, 20, 18	1.95, 1.95, 3.95, 5.45, 9.40
304-K-MO-040-DUAL-(*), 304-K-MO-062-DUAL-(*), 304-K-MO-125-DUAL-(*), 304-K-MO-188-DUAL-(*), 304-K-MO-250-DUAL-(*)	CHROMEALOMEGA® <b>K</b>	304 Stainless Steel	0.040, 0.062, 0.125, 0.188, 0.250	0.006, 0.010, 0.018, 0.025, 0.036	15.0, 6.0, 1.5, 0.59, 0.37	0.005, 0.010, 0.020, 0.032, 0.040	36, 30, 24, 20, 18	1.95, 1.95, 2.30, 3.95, 6.25
INC-K-MO-040-DUAL-(*), INC-K-MO-062-DUAL-(*), INC-K-MO-125-DUAL-(*), INC-K-MO-188-DUAL-(*), INC-K-MO-250-DUAL-(*)	CHROMEALOMEGA® <b>K or N</b> †	Inconel 600	0.040, 0.062, 0.125, 0.188, 0.250	0.006, 0.010, 0.018, 0.025, 0.036	15.0, 6.0, 1.5, 0.59, 0.37	0.005, 0.010, 0.020, 0.032, 0.040	36, 30, 24, 20, 18	1.95, 1.95, 3.95, 5.45, 9.40
304-T-MO-040-DUAL-(*), 304-T-MO-062-DUAL-(*), 304-T-MO-125-DUAL-(*), 304-T-MO-188-DUAL-(*), 304-T-MO-250-DUAL-(*)	Copper-Copper-Constantan <b>T</b>	304 Stainless Steel	0.040, 0.062, 0.125, 0.188, 0.250	0.006, 0.010, 0.018, 0.025, 0.036	7.7, 3.0, 0.75, 0.298, 0.19	0.005, 0.010, 0.020, 0.032, 0.040	36, 30, 24, 20, 18	1.95, 1.95, 2.30, 3.95, 6.25
INC-T-MO-040-DUAL-(*), INC-T-MO-062-DUAL-(*), INC-T-MO-125-DUAL-(*), INC-T-MO-188-DUAL-(*), INC-T-MO-250-DUAL-(*)	Copper-Constantan <b>T</b>	Inconel 600	0.040, 0.062, 0.125, 0.188, 0.250	0.006, 0.010, 0.018, 0.025, 0.036	7.7, 3.04, 0.75, 0.19, 0.19	0.005, 0.010, 0.020, 0.032, 0.040	36, 30, 24, 20, 18	2.30, 2.30, 4.70, 6.25, 9.40
304-E-MO-040-DUAL-(*), 304-E-MO-062-DUAL-(*), 304-E-MO-125-DUAL-(*), 304-E-MO-188-DUAL-(*), 304-E-MO-250-DUAL-(*)	CHROMEALOMEGA® <b>E</b>	304 Stainless Steel	0.040, 0.062, 0.125, 0.188, 0.250	0.006, 0.010, 0.018, 0.025, 0.036	18.0, 7.17, 1.78, 0.71, 0.45	0.005, 0.010, 0.020, 0.032, 0.040	36, 30, 24, 20, 18	1.95, 1.95, 2.30, 3.95, 6.25
INC-E-MO-040-DUAL-(*), INC-E-MO-062-DUAL-(*), INC-E-MO-125-DUAL-(*), INC-E-MO-188-DUAL-(*), INC-E-MO-250-DUAL-(*)	CHROMEALOMEGA® <b>E</b>	Inconel 600	0.040, 0.062, 0.125, 0.188, 0.250	0.006, 0.010, 0.018, 0.025, 0.036	18.0, 7.17, 1.78, 0.71, 0.45	0.005, 0.010, 0.020, 0.032, 0.040	36, 30, 24, 20, 18	2.30, 2.30, 4.70, 6.25, 9.40

\* Specify length in feet. 5' minimum order. † For Type N, change "K" in model number to "N", no extra charge. For 310, 316 or 321 stainless steel sheath, change "304" in the Model Number to "310", "316" or "321"; no additional charge.

For SUPER OMEGACLAD® XL, change "304" in the model number to "XL"; consult Sales for price.

For Hastelloy-X, change "304" in the model number to "HASTX"; consult Sales for price.

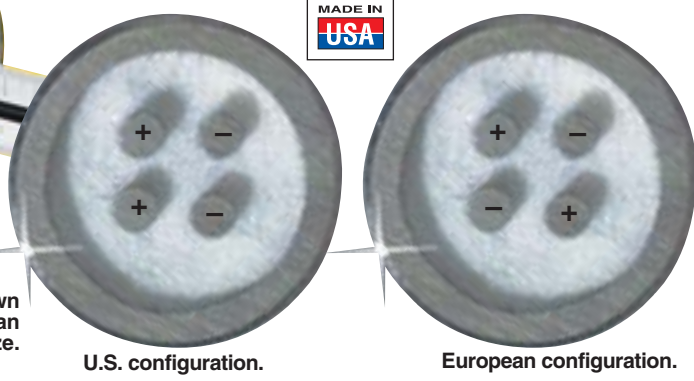
For Special Limits of Error, add suffix "-SLE" to model number; add 20% to price.

**Ordering Examples:** INC-K-MO-125-DUAL-25, Inconel 600 sheath, Type K or N wire, CHROMEALOMEGA® Insulation, 0.125" cable OD, 25', \$3.95 x 25 x 0.9 = \$88.88. 2.) 321-K-MO-125-DUAL-25, 321 SS sheath, Type K wire, MgO Insulation, 0.125" cable OD, dual conductor, 25', \$3.95 x 25 x 0.9 = \$88.88.

# Metric Dual OMEGACLAD® Thermocouple Wire

1.0 to 6.0 mm Diameter

Type N  
Available with  
Inconel Sheath



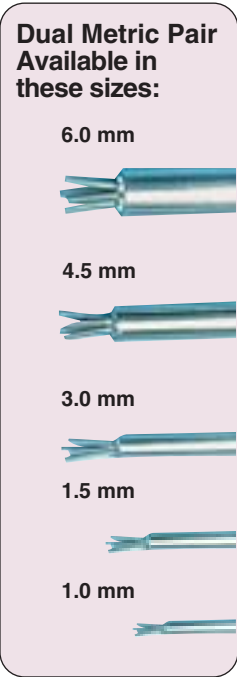
CONTINUOUS LENGTHS AVAILABLE! CONSULT SALES FOR PRICING AND AVAILABILITY

OMEGACLAD® wire is metal-sheathed cable containing thermocouple wires which are insulated from each other and from the sheath by highly compacted magnesium oxide (MgO). Metric size OMEGACLAD® wire is available in 304 SS, 316 SS, 321 SS Inconel 600, Hastelloy and SUPER OMEGACLAD® XL sheathing. To order, specify the desired model number and desired length in meters.

**MOST POPULAR MODELS HIGHLIGHTED!**

DUAL PAIR METRIC OMEGACLAD WIRE							
Model Number	Wire Calibration	Sheath Material	Sheath Diameter mm	Wall Thickness mm	Resistance 15.5°C Ω/dbl. meter	Wire Diameter mm	Price/Meter*
304-J-MO-1.0MM-DUAL-*	Iron-Constantan <b>J</b>	304 Stainless Steel	1.0	0.15	26.0	0.13	<b>6.40</b>
304-J-MO-1.5MM-DUAL-*			1.5	0.25	12.5	0.25	<b>6.40</b>
304-J-MO-3.0MM-DUAL-*			3.0	0.46	4.52	0.56	<b>7.55</b>
304-J-MO-4.5MM-DUAL-*			4.5	0.66	1.48	0.79	<b>12.95</b>
304-J-MO-6.0MM-DUAL-*			6.0	0.94	0.82	1.02	<b>20.50</b>
INC-J-MO-1.0MM-DUAL-*	Iron-Constantan <b>J</b>	Inconel®	1.0	0.15	26.0	0.13	<b>6.40</b>
INC-J-MO-1.5MM-DUAL-*			1.5	0.25	12.5	0.25	<b>6.40</b>
INC-J-MO-3.0MM-DUAL-*			3.0	0.46	4.52	0.56	<b>12.95</b>
INC-J-MO-4.5MM-DUAL-*			4.5	0.66	1.48	0.79	<b>17.90</b>
INC-J-MO-6.0MM-DUAL-*			6.0	0.94	0.82	1.02	<b>30.85</b>
304-K-MO-1.0MM-DUAL-*	CHROMEQA® ALOMEGA® <b>K</b>	304 Stainless Steel	1.0	0.15	43.0	0.13	<b>6.40</b>
304-K-MO-1.5MM-DUAL-*			1.5	0.25	17.3	0.25	<b>6.40</b>
304-K-MO-3.0MM-DUAL-*			3.0	0.46	4.82	0.56	<b>7.55</b>
304-K-MO-4.5MM-DUAL-*			4.5	0.66	2.17	0.79	<b>12.95</b>
304-K-MO-6.0MM-DUAL-*			6.0	0.94	1.25	1.02	<b>20.50</b>
INC-K-MO-1.0MM-DUAL-*	CHROMEQA®- ALOMEGA® <sup>†</sup> <b>K or N</b>	Inconel® 600	1.0	0.15	43.0	0.13	<b>6.40</b>
INC-K-MO-1.5MM-DUAL-*			1.5	0.25	17.3	0.25	<b>6.40</b>
INC-K-MO-3.0MM-DUAL-*			3.0	0.46	4.82	0.56	<b>12.95</b>
INC-K-MO-4.5MM-DUAL-*			4.5	0.66	2.17	0.79	<b>17.90</b>
INC-K-MO-6.0MM-DUAL-*			6.0	0.94	1.25	1.02	<b>30.85</b>
304-T-MO-1.0MM-DUAL-*	Copper-Copper-Constantan <b>T</b>	304 Stainless Steel	1.0	0.15	24.0	0.13	<b>6.40</b>
304-T-MO-1.5MM-DUAL-*			1.5	0.25	9.94	0.25	<b>6.40</b>
304-T-MO-3.0MM-DUAL-*			3.0	0.46	2.53	0.56	<b>7.55</b>
304-T-MO-4.5MM-DUAL-*			4.5	0.66	1.18	0.79	<b>12.95</b>
304-T-MO-6.0MM-DUAL-*			6.0	0.94	0.66	1.02	<b>20.50</b>
INC-T-MO-1.0MM-DUAL-*	Copper-Constantan <b>T</b>	Inconel® 600	1.0	0.15	24.0	0.13	<b>7.55</b>
INC-T-MO-1.5MM-DUAL-*			1.5	0.25	9.94	0.25	<b>7.55</b>
INC-T-MO-3.0MM-DUAL-*			3.0	0.46	2.53	0.56	<b>15.40</b>
INC-T-MO-4.5MM-DUAL-*			4.5	0.66	1.18	0.79	<b>20.50</b>
INC-T-MO-6.0MM-DUAL-*			6.0	0.94	0.66	1.02	<b>30.85</b>
304-E-MO-1.0MM-DUAL-*	CHROMEQA®- Constantan <b>E</b>	304 Stainless Steel	1.0	0.15	49.0	0.13	<b>6.40</b>
304-E-MO-1.5MM-DUAL-*			1.5	0.25	20.0	0.25	<b>6.40</b>
304-E-MO-3.0MM-DUAL-*			3.0	0.46	5.11	0.56	<b>7.55</b>
304-E-MO-4.5MM-DUAL-*			4.5	0.66	3.02	0.79	<b>12.95</b>
304-E-MO-6.0MM-DUAL-*			6.0	0.94	1.57	1.02	<b>20.50</b>
INC-E-MO-1.0MM-DUAL-*	CHROMEQA®- Constantan <b>E</b>	Inconel® 600	1.0	0.15	49.0	0.13	<b>7.55</b>
INC-E-MO-1.5MM-DUAL-*			1.5	0.25	20.0	0.25	<b>7.55</b>
INC-E-MO-3.0MM-DUAL-*			3.0	0.46	5.11	0.56	<b>15.40</b>
INC-E-MO-4.5MM-DUAL-*			4.5	0.66	3.02	0.79	<b>20.50</b>
INC-E-MO-6.0MM-DUAL-*			6.0	0.94	1.57	1.02	<b>30.85</b>

ALSO AVAILABLE WITH HIGH PURITY MAGNESIUM OXIDE (MgO)



**Custom Assemblies:** Special sheathing, insulation and thermocouple alloys are available on special order. Consult Sales Department for price and delivery.

**Important Ordering Note:** OMEGACLAD® wire will be supplied to ±10% of specified length. Prices will be adjusted accordingly.

\* Specify length in meters (5 meters, minimum order). † For Type N, change "K" in model number to "N", no extra charge.  
**Notes:** 1 inch = 25.4 mm, 1 mm = 0.0394 inches, 1 meter = 3.28 feet.  
 For 310, 316 or 321 stainless steel sheath, change "304" in the Model Number to "310", "316" or "321"; no additional charge.  
 For SUPER OMEGACLAD® XL, change "304" in the Model Number to "XL"; consult Sales for price.  
 For Hastelloy-X, change "304" in the Model Number to "HASTX"; consult Sales for price.  
 For Special Limits of Error, add suffix "-SLE" to Model Number; add 20% to price.  
 For dual diagonal wire configuration, add "-DIA" to model number.  
**Ordering Examples:** INC-K-MO-3.0MM-DUAL-DIA-10, 10 m of type K or N CHROMEQA®-ALOMEGA® wire with Inconel 600 sheath, 3 mm in diameter, dual conductor, \$12.95 x 10 x 0.7 = \$90.65, 2.) 304-T-MO-6.0MM-DUAL-5, 5 m of type T OMEGACLAD® wire with 304 SS sheath, 6 mm in diameter, dual conductor \$20.50 x 5 x 0.9 = \$92.25.



#### UNITED STATES

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

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
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596-311-899

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