

Dual OMEGACLAD® Thermocouple Wire

0.040 to 0.250 inch Diameter



Available as
SUPER
OMEGACLAD® XL
THERMOCOUPLE PROBES
See page A-43 to A-48.

Four-Wire
Construction!

Available with 304 SS,
316 SS, 316 SS, 321 SS,
INCONEL 600 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%

Consult sales on larger quantities.

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:

0.250"

0.188"

0.125"

0.062"

0.040"

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-(*)	Iron-Constantan J	304 Stainless Steel	0.040	0.006	8.9	0.005	36	1.95
304-J-MO-062-DUAL-(*)			0.062	0.010	3.6	0.010	30	1.95
304-J-MO-125-DUAL-(*)			0.125	0.018	0.88	0.020	24	2.30
304-J-MO-188-DUAL-(*)			0.188	0.025	0.36	0.032	20	3.95
304-J-MO-250-DUAL-(*)			0.250	0.036	0.22	0.040	18	6.25
INC-J-MO-040-DUAL-(*)	Iron-Constantan J	Inconel 600	0.040	0.006	8.9	0.005	36	1.95
INC-J-MO-062-DUAL-(*)			0.062	0.010	3.6	0.010	30	1.95
INC-J-MO-125-DUAL-(*)			0.125	0.018	0.88	0.020	24	3.95
INC-J-MO-188-DUAL-(*)			0.188	0.025	0.36	0.032	20	5.45
INC-J-MO-250-DUAL-(*)			0.250	0.036	0.22	0.040	18	9.40
304-K-MO-040-DUAL-(*)	CHROMEGA®-ALOMEGA® K	304 Stainless Steel	0.040	0.006	15.0	0.005	36	1.95
304-K-MO-062-DUAL-(*)			0.062	0.010	6.0	0.010	30	1.95
304-K-MO-125-DUAL-(*)			0.125	0.018	1.5	0.020	24	2.30
304-K-MO-188-DUAL-(*)			0.188	0.025	0.59	0.032	20	3.95
304-K-MO-250-DUAL-(*)			0.250	0.036	0.37	0.040	18	6.25
INC-K-MO-040-DUAL-(*)	CHROMEGA®-ALOMEGA® K or N	Inconel 600	0.040	0.006	15.0	0.005	36	1.95
INC-K-MO-062-DUAL-(*)			0.062	0.010	6.0	0.010	30	1.95
INC-K-MO-125-DUAL-(*)			0.125	0.018	1.5	0.020	24	3.95
INC-K-MO-188-DUAL-(*)			0.188	0.025	0.59	0.032	20	5.45
INC-K-MO-250-DUAL-(*)			0.250	0.036	0.37	0.040	18	9.40
304-T-MO-040-DUAL-(*)	Copper-Copper-Constantan T	304 Stainless Steel	0.040	0.006	7.7	0.005	36	1.95
304-T-MO-062-DUAL-(*)			0.062	0.010	3.0	0.010	30	1.95
304-T-MO-125-DUAL-(*)			0.125	0.018	0.75	0.020	24	2.30
304-T-MO-188-DUAL-(*)			0.188	0.025	0.298	0.032	20	3.95
304-T-MO-250-DUAL-(*)			0.250	0.036	0.19	0.040	18	6.25
INC-T-MO-040-DUAL-(*)	Copper-Constantan T	Inconel 600	0.040	0.006	7.7	0.005	36	2.30
INC-T-MO-062-DUAL-(*)			0.062	0.010	3.04	0.010	30	2.30
INC-T-MO-125-DUAL-(*)			0.125	0.018	0.75	0.020	24	4.70
INC-T-MO-188-DUAL-(*)			0.188	0.025	0.19	0.032	20	6.25
INC-T-MO-250-DUAL-(*)			0.250	0.036	0.19	0.040	18	9.40
304-E-MO-040-DUAL-(*)	CHROMEGA®-Constantan E	304 Stainless Steel	0.040	0.006	18.0	0.005	36	1.95
304-E-MO-062-DUAL-(*)			0.062	0.010	7.17	0.010	30	1.95
304-E-MO-125-DUAL-(*)			0.125	0.018	1.78	0.020	24	2.30
304-E-MO-188-DUAL-(*)			0.188	0.025	0.71	0.032	20	3.95
304-E-MO-250-DUAL-(*)			0.250	0.036	0.45	0.040	18	6.25
INC-E-MO-040-DUAL-(*)	CHROMEGA®-Constantan E	Inconel 600	0.040	0.006	18.0	0.005	36	2.30
INC-E-MO-062-DUAL-(*)			0.062	0.010	7.17	0.010	30	2.30
INC-E-MO-125-DUAL-(*)			0.125	0.018	1.78	0.020	24	4.70
INC-E-MO-188-DUAL-(*)			0.188	0.025	0.71	0.032	20	6.25
INC-E-MO-250-DUAL-(*)			0.250	0.036	0.45	0.040	18	9.40

* Specify length in feet. 5' minimum order. †For Type N, change e "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, CHROMEGA®-ALOMEGA® Insulation, 0.125" cable OD, 25', \$3.95 x 25 x 0.9 = **\$88.88**.

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



Bends Easily!

Shown smaller than actual size.

Continuous Lengths Available! Consult Sales for Pricing and Availability

Shown larger than actual size.

U.S. configuration.

European configuration.



Available!

Thermocouple Wire Stripper for metal sheathed or OMEGACLAD™ wire. Please See PST Series Strippers on page H-61.

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, 310 SS, 316 SS, 321 SS Inconel® 600 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-*	J	304 Stainless Steel	1.0	0.15	26.0	0.13	\$6.40
304-J-MO-1.5MM-DUAL-*			1.5	0.25	12.5	0.25	6.40
304-J-MO-3.0MM-DUAL-*			3.0	0.46	4.52	0.56	7.55
304-J-MO-4.5MM-DUAL-*			4.5	0.66	1.48	0.79	12.95
304-J-MO-6.0MM-DUAL-*			6.0	0.94	0.82	1.02	20.50
INC-J-MO-1.0MM-DUAL-*	J	Inconel®	1.0	0.15	26.0	0.13	6.40
INC-J-MO-1.5MM-DUAL-*			1.5	0.25	12.5	0.25	6.40
INC-J-MO-3.0MM-DUAL-*			3.0	0.46	4.52	0.56	12.95
INC-J-MO-4.5MM-DUAL-*			4.5	0.66	1.48	0.79	17.90
INC-J-MO-6.0MM-DUAL-*			6.0	0.94	0.82	1.02	30.85
304-K-MO-1.0MM-DUAL-*	K	304 Stainless Steel	1.0	0.15	43.0	0.13	6.40
304-K-MO-1.5MM-DUAL-*			1.5	0.25	17.3	0.25	6.40
304-K-MO-3.0MM-DUAL-*			3.0	0.46	4.82	0.56	7.55
304-K-MO-4.5MM-DUAL-*			4.5	0.66	2.17	0.79	12.95
304-K-MO-6.0MM-DUAL-*			6.0	0.94	1.25	1.02	20.50
INC-K-MO-1.0MM-DUAL-*	K or N†	Inconel® 600	1.0	0.15	43.0	0.13	6.40
INC-K-MO-1.5MM-DUAL-*			1.5	0.25	17.3	0.25	6.40
INC-K-MO-3.0MM-DUAL-*			3.0	0.46	4.82	0.56	12.95
INC-K-MO-4.5MM-DUAL-*			4.5	0.66	2.17	0.79	17.90
INC-K-MO-6.0MM-DUAL-*			6.0	0.94	1.25	1.02	30.85
304-T-MO-1.0MM-DUAL-*	T	304 Stainless Steel	1.0	0.15	24.0	0.13	6.40
304-T-MO-1.5MM-DUAL-*			1.5	0.25	9.94	0.25	6.40
304-T-MO-3.0MM-DUAL-*			3.0	0.46	2.53	0.56	7.55
304-T-MO-4.5MM-DUAL-*			4.5	0.66	1.18	0.79	12.95
304-T-MO-6.0MM-DUAL-*			6.0	0.94	0.66	1.02	20.50
INC-T-MO-1.0MM-DUAL-*	T	Inconel® 600	1.0	0.15	24.0	0.13	7.55
INC-T-MO-1.5MM-DUAL-*			1.5	0.25	9.94	0.25	7.55
INC-T-MO-3.0MM-DUAL-*			3.0	0.46	2.53	0.56	15.40
INC-T-MO-4.5MM-DUAL-*			4.5	0.66	1.18	0.79	20.50
INC-T-MO-6.0MM-DUAL-*			6.0	0.94	0.66	1.02	30.85
304-E-MO-1.0MM-DUAL-*	E	304 Stainless Steel	1.0	0.15	49.0	0.13	6.40
304-E-MO-1.5MM-DUAL-*			1.5	0.25	20.0	0.25	6.40
304-E-MO-3.0MM-DUAL-*			3.0	0.46	5.11	0.56	7.55
304-E-MO-4.5MM-DUAL-*			4.5	0.66	3.02	0.79	12.95
304-E-MO-6.0MM-DUAL-*			6.0	0.94	1.57	1.02	20.50
INC-E-MO-1.0MM-DUAL-*	E	Inconel® 600	1.0	0.15	49.0	0.13	7.55
INC-E-MO-1.5MM-DUAL-*			1.5	0.25	20.0	0.25	7.55
INC-E-MO-3.0MM-DUAL-*			3.0	0.46	5.11	0.56	15.40
INC-E-MO-4.5MM-DUAL-*			4.5	0.66	3.02	0.79	20.50
INC-E-MO-6.0MM-DUAL-*			6.0	0.94	1.57	1.02	30.85

* 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.

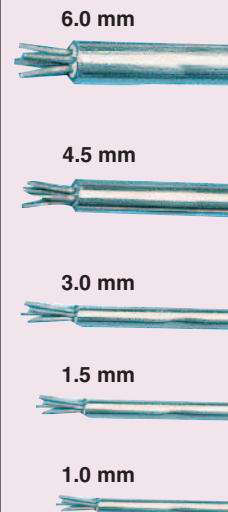
For Special Limits of Error, add suffix "-SLE" to Model Number; add 20% to price.

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 CHROMEALOMEGA® wire with Inconel 600 sheath, 3 mm in diameter, dual conductor, \$12.95 x 10 x 0.7 = \$90.65. 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.

Also Available with High Purity Magnesium Oxide (MgO)

Dual Metric Pair Available in these sizes:



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.