

OMEGACLAD® Thermocouple Wire Magnesium Oxide Insulation Metal Sheathed

0.010 to 0.312 inch Diameter

**MADE WITH HIGH PURITY
MAGNESIUM OXIDE (MgO)**

OMEGACLAD® metal-sheathed thermocouple wire containing inert, non-vitrified insulation is used in the manufacture of thermocouple probes. It can also be used as extension wire.

Dia. 1 mm or 0.040" and above			Dia. 0.8 mm or 0.032" and below		
Metric	Feet	Net	Metric	Feet	Net
0 to 3 m	0 to 10'		0 to 7.5 m	0 to 24'	
3.1 to 7.5 m	11 to 25'	10%	7.6 to 30 m	25 to 99'	10%
7.6 to 15 m	26 to 50'	25%	30.1 to 75 m	100 to 249'	25%
15.1 to 30 m	51 to 100'	30%	Over 75 m	Over 249'	30%
30.1 to 150 m	101 to 500'	35%			
151 to 300 m	501 to 1000'	40%			
Over 300 m	Over 1,000'	45%			

Continuous Lengths from 5 feet to thousands of feet.



Type N
Available with Inconel Sheath

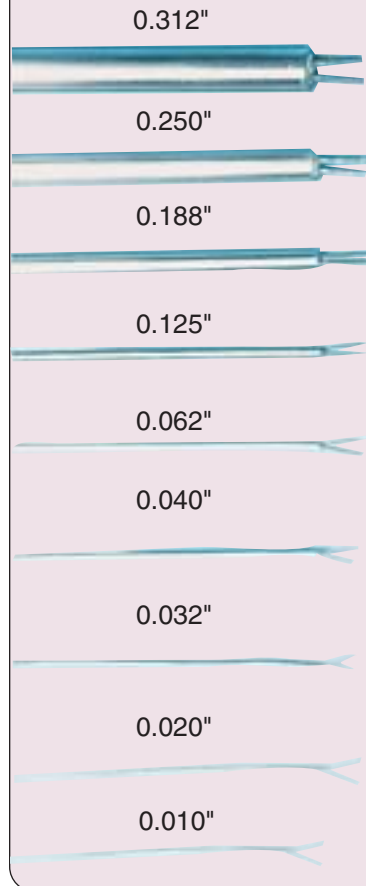
MOST POPULAR MODELS HIGHLIGHTED!

TYPICAL APPLICATION OMEGACLAD® wire used as extension wire feedthrough with a compression fitting.

- Available in 304, 310, 316, and 321 Stainless Steel, Inconel 600 or Hastelloy X, and Super OMEGACLAD® XL
- Withstands Vibration, High Temperatures and Pressures
- Easily Formed, Durable
- Highest Quality
- Can Be Welded

Heavy Wall OMEGACLAD® Consult Custom Engineering.

Available in these sizes:



Model Number	Wire Calibration	Sheath Material	Sheath Diameter (in)	Wall Thickness (in)	Resistance at 60°F Ω/Dbl. ft.	Wire Diameter (in)	AWG Gauge	Price/Foot*
304-J-MO-020-(*), 304-J-MO-032-(*), 304-J-MO-040-(*), 304-J-MO-062-(*), 304-J-MO-125-(*), 304-J-MO-188-(*), 304-J-MO-250-(*)	J Iron-Constantan	304 Stainless Steel	0.020 to 0.250	0.003 to 0.036	23 to 0.22	0.004 to 0.040	38 to 18	1.25 to 5.00
INC-J-MO-020-(*), INC-J-MO-032-(*), INC-J-MO-040-(*), INC-J-MO-062-(*), INC-J-MO-125-(*), INC-J-MO-188-(*), INC-J-MO-250-(*)	J Iron-Constantan	Inconel 600	0.020 to 0.250	0.003 to 0.036	23 to 0.22	0.004 to 0.040	38 to 18	1.25 to 7.50
304-K-MO-010-(*), 304-K-MO-020-(*), 304-K-MO-032-(*), 304-K-MO-040-(*), 304-K-MO-062-(*), 304-K-MO-125-(*), 304-K-MO-188-(*), 304-K-MO-250-(*)	K CHROMEQA®-ALOMEGA®	304 Stainless Steel	0.010 to 0.250	0.0015 to 0.036	600 to 0.37	0.0015 to 0.040	50 to 18	2.50 to 5.00
INC-K-MO-010-(*), INC-K-MO-020-(*), INC-K-MO-032-(*), INC-K-MO-040-(*), INC-K-MO-062-(*), INC-K-MO-125-(*), INC-K-MO-188-(*), INC-K-MO-250-(*), INC-K-MO-312-(*)	K or N† CHROMEQA®-ALOMEGA® or OMEGA-P® OMEGA-N®	Inconel 600	0.010 to 0.312	0.0015 to 0.040	600 to 0.37	0.0015 to 0.044	50 to 18	2.50 to 11.75
304-T-MO-020-(*), 304-T-MO-032-(*), 304-T-MO-040-(*), 304-T-MO-062-(*), 304-T-MO-125-(*), 304-T-MO-188-(*), 304-T-MO-250-(*)	T Copper-Copper-Constantan	304 Stainless Steel	0.020 to 0.250	0.003 to 0.036	20 to 0.19	0.004 to 0.040	38 to 18	1.25 to 5.00
INC-T-MO-020-(*), INC-T-MO-032-(*), INC-T-MO-040-(*), INC-T-MO-062-(*), INC-T-MO-125-(*), INC-T-MO-188-(*), INC-T-MO-250-(*)	T Copper-Constantan	Inconel 600	0.020 to 0.250	0.003 to 0.036	19.99 to 0.19	0.004 to 0.040	38 to 18	1.25 to 7.50
304-E-MO-010-(*), 304-E-MO-020-(*), 304-E-MO-032-(*), 304-E-MO-040-(*), 304-E-MO-062-(*), 304-E-MO-125-(*), 304-E-MO-188-(*), 304-E-MO-250-(*)	E CHROMEQA®-Constantan	304 Stainless Steel	0.010 to 0.250	0.0015 to 0.036	716.9 to 0.45	0.0015 to 0.040	50 to 18	2.50 to 5.00
INC-E-MO-010-(*), INC-E-MO-020-(*), INC-E-MO-032-(*), INC-E-MO-040-(*), INC-E-MO-062-(*), INC-E-MO-125-(*), INC-E-MO-188-(*), INC-E-MO-250-(*)	E CHROMEQA®-Constantan	Inconel 600	0.010 to 0.250	0.0015 to 0.036	716.9 to 0.45	0.0015 to 0.040	50 to 18	2.50 to 7.50

* 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 the model number; add 20% to price.
Ordering Examples: 1.) 304-K-MO-062-125, Inconel 600 sheath, Type K or N wire, CHROMEQA®-ALOMEGA® insulation, 0.125" cable OD, 25' \$1.55 x 25 x 0.9 = \$34.88. 2.) **INC-N-MO-125-25**, Inconel 600 sheath, Type N wire, MgO insulation, 0.125" cable OD, 25' \$3.15 x 25 x 0.9 = \$70.88.

Metric OMEGACLAD® Thermocouple Wire

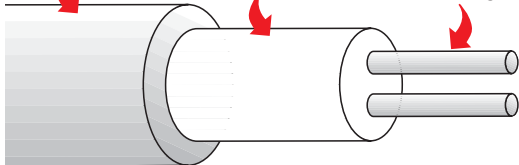
0.025 to 8.0 mm Dia.

METAL SHEATH MAGNESIUM OXIDE INSULATION THERMOCOUPLE WIRES



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

Shown larger than actual size.



MOST POPULAR MODELS HIGHLIGHTED!

Available!

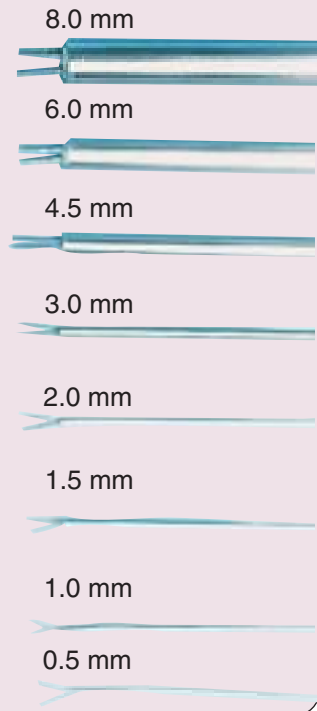


Thermocouple Wire Stripper for metal sheathed or OMEGACLAD® wire. Please see PST Series Strippers on page H-59.

Type N Available with Inconel Sheath

MADE WITH HIGH PURITY MAGNESIUM OXIDE (MgO)

Available in these sizes:



Technical Notes:

Compacted magnesium oxide is hygroscopic (absorbs moisture)

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.

Model Number	Wire Calibration	Sheath Material	Sheath Diameter mm	Wall Thickness mm	Resistance 15.5°C Ohm/dbl. meter	Wire Diameter mm	Price/Meter*
304-J-MO-0.25MM-(*)	Iron-Constantan J	304 Stainless Steel	0.25	0.04	1181	0.04	\$8.20
304-J-MO-0.5MM-(*)			0.5	0.08	98	0.09	4.10
304-J-MO-0.75MM-(*)			0.75	0.13	46	0.13	4.10
304-J-MO-1.0MM-(*)			1.0	0.15	26	0.18	4.10
304-J-MO-1.5MM-(*)			1.5	0.25	12	0.25	5.10
304-J-MO-2.0MM-(*)			2.0	0.31	6.9	0.36	5.60
304-J-MO-3.0MM-(*)			3.0	0.46	4.6	0.56	6.10
304-J-MO-4.5MM-(*)			4.5	0.66	1.5	0.79	10.35
304-J-MO-6.0MM-(*)	6.0	0.94	0.82	1.02	16.40		
INC-J-MO-0.25MM-(*)	Iron-Constantan J	Inconel® 600	0.25	0.04	1181	0.04	8.20
INC-J-MO-0.5MM-(*)			0.5	0.08	98	0.09	4.10
INC-J-MO-0.75MM-(*)			0.75	0.13	46	0.13	4.10
INC-J-MO-1.0MM-(*)			1.0	0.15	26	0.18	4.10
INC-J-MO-1.5MM-(*)			1.5	0.25	12	0.25	5.10
INC-J-MO-2.0MM-(*)			2.0	0.31	6.9	0.36	7.75
INC-J-MO-3.0MM-(*)			3.0	0.46	4.6	0.56	10.35
INC-J-MO-4.5MM-(*)			4.5	0.66	1.5	0.79	14.30
INC-J-MO-6.0MM-(*)	6.0	0.94	0.82	1.02	16.40		
304-K-MO-0.25MM-(*)	CHROMEQA®-ALOMEGA®	304 Stainless Steel	0.25	0.04	1968	0.04	8.20
304-K-MO-0.5MM-(*)			0.5	0.08	174	0.09	4.10
304-K-MO-0.75MM-(*)			0.75	0.13	79	0.13	4.10
304-K-MO-1.0MM-(*)			1.0	0.15	43	0.18	4.10
304-K-MO-1.5MM-(*)			1.5	0.25	19	0.25	5.10
304-K-MO-2.0MM-(*)			2.0	0.32	11	0.36	5.60
304-K-MO-3.0MM-(*)			3.0	0.46	4.9	0.56	6.10
304-K-MO-4.5MM-(*)			4.5	0.66	2.2	0.79	10.35
304-K-MO-6.0MM-(*)	6.0	0.94	1.2	1.02	16.40		
INC-K-MO-0.25MM-(*)	CHROMEQA®-ALOMEGA® or OMEGA-PT™ OMEGA-N™	Inconel® 600	0.25	0.04	1968	0.04	8.20
INC-K-MO-0.5MM-(*)			0.5	0.08	174	0.09	4.10
INC-K-MO-0.75MM-(*)			0.75	0.13	79	0.13	4.10
INC-K-MO-1.0MM-(*)			1.0	0.15	43	0.18	4.10
INC-K-MO-1.5MM-(*)			1.5	0.25	19	0.25	5.10
INC-K-MO-2.0MM-(*)			2.0	0.31	11	0.36	7.75
INC-K-MO-3.0MM-(*)			3.0	0.46	4.9	0.56	10.35
INC-K-MO-4.5MM-(*)			4.5	0.66	2.2	0.79	14.30
INC-K-MO-6.0MM-(*)	6.0	0.94	1.2	1.01	24.60		
INC-K-MO-8.0MM-(*)	8.0	1.01	1.2	1.11	38.00		
304-T-MO-0.25MM-(*)	Copper-Constantan T	304 Stainless Steel	0.25	0.04	1043	0.04	8.20
304-T-MO-0.5MM-(*)			0.5	0.08	66	0.09	4.10
304-T-MO-0.75MM-(*)			0.75	0.13	39	0.13	4.10
304-T-MO-1.0MM-(*)			1.0	0.15	24	0.18	4.10
304-T-MO-1.5MM-(*)			1.5	0.25	9.8	0.25	5.10
304-T-MO-2.0MM-(*)			2.0	0.31	5.6	0.36	6.65
304-T-MO-3.0MM-(*)			3.0	0.46	2.5	0.56	6.10
304-T-MO-4.5MM-(*)			4.5	0.66	1.2	0.79	10.35
304-T-MO-6.0MM-(*)	6.0	0.94	0.65	1.02	16.40		
INC-T-MO-0.5MM-(*)	Copper-Constantan T	Inconel® 600	0.5	0.08	66	0.09	4.10
INC-T-MO-0.75MM-(*)			0.75	0.13	39	0.13	4.10
INC-T-MO-1.0MM-(*)			1.0	0.15	24	0.18	4.10
INC-T-MO-1.5MM-(*)			1.5	0.25	9.8	0.25	6.10
INC-T-MO-2.0MM-(*)			2.0	0.31	5.6	0.36	9.20
INC-T-MO-3.0MM-(*)			3.0	0.46	2.5	0.56	12.30
INC-T-MO-4.5MM-(*)			4.5	0.66	1.2	0.79	16.40
INC-T-MO-6.0MM-(*)			6.0	0.94	0.65	1.02	24.60
304-E-MO-0.25MM-(*)	CHROMEQA®-Constantan E	304 Stainless Steel	0.25	0.04	2352	0.04	8.20
304-E-MO-0.5MM-(*)			0.5	0.08	190	0.09	4.10
304-E-MO-0.75MM-(*)			0.75	0.13	95	0.13	4.10
304-E-MO-1.0MM-(*)			1.0	0.15	49	0.18	4.10
304-E-MO-1.5MM-(*)			1.5	0.25	20	0.25	5.10
304-E-MO-2.0MM-(*)			2.0	0.31	11	0.36	6.65
304-E-MO-3.0MM-(*)			3.0	0.46	5.2	0.56	8.20
304-E-MO-4.5MM-(*)			4.5	0.66	3.0	0.79	10.35
304-E-MO-6.0MM-(*)	6.0	0.94	1.6	1.02	16.40		
INC-E-MO-0.25MM-(*)	CHROMEQA®-Constantan E	Inconel® 600	0.25	0.04	2352	0.04	8.20
INC-E-MO-0.5MM-(*)			0.5	0.08	190	0.09	4.10
INC-E-MO-0.75MM-(*)			0.75	0.13	95	0.13	4.10
INC-E-MO-1.0MM-(*)			1.0	0.15	49	0.18	4.10
INC-E-MO-1.5MM-(*)			1.5	0.25	20	0.25	6.10
INC-E-MO-2.0MM-(*)			2.0	0.31	11	0.36	9.20
INC-E-MO-3.0MM-(*)			3.0	0.46	5.2	0.56	12.30
INC-E-MO-4.5MM-(*)			4.5	0.66	3.0	0.79	16.40
INC-E-MO-6.0MM-(*)	6.0	0.94	1.6	1.02	24.60		

* Specify length in meters (5 meters, minimum order). † For Type N change "K" in model number to "N", same price. For 310, 316 or 321 stainless steel sheath, change "304" in the Model Number to "310", "316" or "321"; no additional charge. For Hastelloy-X, change "304" in the Model Number to "HASTX"; consult Sales for price. For Special Limits of Error, add suffix "SLE" to the Model Number; add 20% to price. **Ordering Example: 304-K-MO-1.5MM-10**, 10 m of type K CHROMEQA®-ALOMEGA® wire with 304 SS sheath, 1.5 mm diameter, \$5.10 x 10 x 0.75 = \$38.25.



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