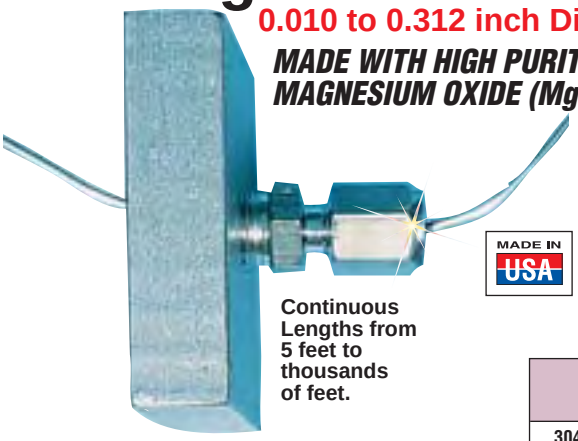
OMEGACLAD® Thermocouple Wire
Magnesium Oxide Insulation Metal Sheathed

0.010 to 0.312 inch Diameter

MADE WITH HIGH PURITY MAGNESIUM OXIDE (MgO)



Continuous Lengths from 5 feet to thousands of feet.

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.

Type N Available with Inconel Sheath

Discount Schedule for OMEGACLAD®					
Dia. 1 mm or 0.040" and above			Dia. 0.8 mm or 0.032" and below		
Metric	Feet		Metric	Feet	
0 to 3 m	0 to 10'	Net	0 to 7.5 m	0 to 24'	Net
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%			

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.

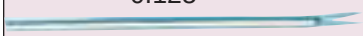
Available in these sizes:

0.312"

0.250"

0.188"

0.125"



0.062"

0.040"

0.032"

0.020"

0.010"

MOST POPULAR MODELS HIGHLIGHTED!

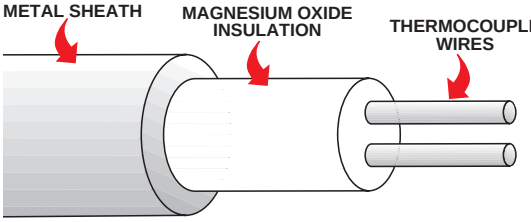
Model Number	Wire Calibration	Sheath Material	Sheath Diameter (in)	Wall Thickness (in)	Resistance at 60°F Ω/ Dbl. ft.	Wire Diameter (in)	AWG Gage
304-J-MO-020-(*)	Iron-Constantan J	304 Stainless Steel	0.020	0.003	23	0.004	38
304-J-MO-032-(*)			0.032	0.005	14.2	0.005	36
304-J-MO-040-(*)			0.040	0.007	8.9	0.006	34
304-J-MO-062-(*)			0.062	0.010	3.6	0.010	30
304-J-MO-125-(*)			0.125	0.018	0.88	0.020	24
304-J-MO-188-(*)			0.188	0.025	0.36	0.032	20
304-J-MO-250-(*)			0.250	0.036	0.22	0.040	18
INC-J-MO-020-(*)	Iron-Constantan J	Inconel 600	0.020	0.003	23	0.004	38
INC-J-MO-032-(*)			0.032	0.005	14.2	0.005	36
INC-J-MO-040-(*)			0.040	0.007	8.9	0.006	34
INC-J-MO-062-(*)			0.062	0.010	3.6	0.010	30
INC-J-MO-125-(*)			0.125	0.018	0.88	0.020	24
INC-J-MO-188-(*)			0.188	0.025	0.36	0.032	20
INC-J-MO-250-(*)			0.250	0.036	0.22	0.040	18
304-K-MO-010-(*)	CHROMEGA®-ALOMEGA® K	304 Stainless Steel	0.010	0.0015	600	0.0015	50
304-K-MO-020-(*)			0.020	0.003	38	0.004	38
304-K-MO-032-(*)			0.032	0.005	24.1	0.005	36
304-K-MO-040-(*)			0.040	0.007	15	0.006	34
304-K-MO-062-(*)			0.062	0.010	6.0	0.010	30
304-K-MO-125-(*)			0.125	0.018	1.5	0.020	24
304-K-MO-188-(*)			0.188	0.025	0.59	0.032	20
304-K-MO-250-(*)			0.250	0.036	0.37	0.040	18
INC-K-MO-010-(*)	CHROMEGA®-ALOMEGA® or OMEGA-P® OMEGA-N® K or N†	Inconel 600	0.010	0.0015	600	0.0015	50
INC-K-MO-020-(*)			0.020	0.003	38	0.004	38
INC-K-MO-032-(*)			0.032	0.005	24.1	0.005	36
INC-K-MO-040-(*)			0.040	0.007	15	0.006	34
INC-K-MO-062-(*)			0.062	0.010	6.0	0.010	30
INC-K-MO-125-(*)			0.125	0.018	1.5	0.020	24
INC-K-MO-188-(*)			0.188	0.025	0.59	0.032	20
INC-K-MO-250-(*)			0.250	0.036	0.37	0.040	18
INC-K-MO-312-(*)			0.312	0.040	0.37	0.044	18
304-T-MO-020-(*)	Copper-Copper-Constantan T	304 Stainless Steel	0.020	0.003	20	0.004	38
304-T-MO-032-(*)			0.032	0.005	12.2	0.005	36
304-T-MO-040-(*)			0.040	0.007	7.7	0.006	34
304-T-MO-062-(*)			0.062	0.010	3.0	0.010	30
304-T-MO-125-(*)			0.125	0.018	0.75	0.020	24
304-T-MO-188-(*)			0.188	0.025	0.298	0.032	20
304-T-MO-250-(*)			0.250	0.036	0.19	0.040	18
INC-T-MO-020-(*)	Copper-Constantan T	Inconel 600	0.020	0.003	19.99	0.004	38
INC-T-MO-032-(*)			0.032	0.005	12.2	0.005	36
INC-T-MO-040-(*)			0.040	0.007	7.66	0.006	34
INC-T-MO-062-(*)			0.062	0.010	3.04	0.010	30
INC-T-MO-125-(*)			0.125	0.018	0.75	0.020	24
INC-T-MO-188-(*)			0.188	0.025	0.19	0.032	20
INC-T-MO-250-(*)			0.250	0.036	0.19	0.040	18
304-E-MO-010-(*)	CHROMEGA®-Constantan E	304 Stainless Steel	0.010	0.0015	716.9	0.0015	50
304-E-MO-020-(*)			0.020	0.003	45.1	0.004	38
304-E-MO-032-(*)			0.032	0.005	28.8	0.005	36
304-E-MO-040-(*)			0.040	0.007	18.09	0.006	34
304-E-MO-062-(*)			0.062	0.010	7.17	0.010	30
304-E-MO-125-(*)			0.125	0.018	1.78	0.020	24
304-E-MO-188-(*)			0.188	0.025	0.71	0.032	20
304-E-MO-250-(*)			0.250	0.036	0.45	0.040	18
INC-E-MO-010-(*)	CHROMEGA®-Constantan E	Inconel 600	0.010	0.0015	716.9	0.0015	50
INC-E-MO-020-(*)			0.020	0.003	45.1	0.004	38
INC-E-MO-032-(*)			0.032	0.005	28.8	0.005	36
INC-E-MO-040-(*)			0.040	0.007	18.09	0.006	34
INC-E-MO-062-(*)			0.062	0.010	7.17	0.010	30
INC-E-MO-125-(*)			0.125	0.018	1.78	0.020	24
INC-E-MO-188-(*)			0.188	0.025	0.71	0.032	20
INC-E-MO-250-(*)			0.250	0.036	0.45	0.040	18

** 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, CHROMEGA®-ALOMEGA® insulation, 0.125" cable OD, 25'* ***. 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.*

Metric OMEGACLAD® Thermocouple Wire

0.025 to 8.0 mm Dia.



Shown larger than actual size.

MADE IN USA

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

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:

8.0 mm

6.0 mm

4.5 mm

3.0 mm

2.0 mm

1.5 mm

1.0 mm

0.5 mm

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	
304-J-MO-0.25MM-(*)			0.25	0.04	1181	0.04	
304-J-MO-0.5MM-(*)			0.5	0.08	98	0.09	
304-J-MO-0.75MM-(*)	Iron-Constantan	304 Stainless Steel	0.75	0.13	46	0.13	
304-J-MO-1.0MM-(*)			1.0	0.15	26	0.18	
304-J-MO-1.5MM-(*)			1.5	0.25	12	0.25	
304-J-MO-2.0MM-(*)			2.0	0.31	6.9	0.36	
304-J-MO-3.0MM-(*)			3.0	0.46	4.6	0.56	
304-J-MO-4.5MM-(*)	J		4.5	0.66	1.5	0.79	
304-J-MO-6.0MM-(*)			6.0	0.94	0.82	1.02	
INC-J-MO-0.25MM-(*)			0.25	0.04	1181	0.04	
INC-J-MO-0.5MM-(*)			0.5	0.08	98	0.09	
INC-J-MO-0.75MM-(*)	Iron-Constantan	Inconel® 600	0.75	0.13	46	0.13	
INC-J-MO-1.0MM-(*)			1.0	0.15	26	0.18	
INC-J-MO-1.5MM-(*)			1.5	0.25	12	0.25	
INC-J-MO-2.0MM-(*)			2.0	0.31	6.9	0.36	
INC-J-MO-3.0MM-(*)			3.0	0.46	4.6	0.56	
INC-J-MO-4.5MM-(*)	J		4.5	0.66	1.5	0.79	
INC-J-MO-6.0MM-(*)			6.0	0.94	0.82	1.02	
304-K-MO-0.25MM-(*)			0.25	0.04	1968	0.04	
304-K-MO-0.5MM-(*)			0.5	0.08	174	0.09	
304-K-MO-0.75MM-(*)	CHROMEGA®-ALOMEGA®	304 Stainless Steel	0.75	0.13	79	0.13	
304-K-MO-1.0MM-(*)			1.0	0.15	43	0.18	
304-K-MO-1.5MM-(*)			1.5	0.25	19	0.25	
304-K-MO-2.0MM-(*)			2.0	0.32	11	0.36	
304-K-MO-3.0MM-(*)			3.0	0.46	4.9	0.56	
304-K-MO-4.5MM-(*)	K		4.5	0.66	2.2	0.79	
304-K-MO-6.0MM-(*)			6.0	0.94	1.2	1.02	
INC-K-MO-0.25MM-(*)			0.25	0.04	1968	0.04	
INC-K-MO-0.5MM-(*)	CHROMEGA®-ALOMEGA® or OMEGA-P™ OMEGA-N™		0.5	0.08	174	0.09	
INC-K-MO-0.75MM-(*)		Inconel® 600	0.75	0.13	79	0.13	
INC-K-MO-1.0MM-(*)			1.0	0.15	43	0.18	
INC-K-MO-1.5MM-(*)			1.5	0.25	19	0.25	
INC-K-MO-2.0MM-(*)			2.0	0.31	11	0.36	
INC-K-MO-3.0MM-(*)			3.0	0.46	4.9	0.56	
INC-K-MO-4.5MM-(*)	K or N†		4.5	0.66	2.2	0.79	
INC-K-MO-6.0MM-(*)			6.0	0.94	1.2	1.01	
INC-K-MO-8.0MM-(*)			8.0	1.01	1.2	1.11	
304-T-MO-0.25MM-(*)			0.25	0.04	1043	0.04	
304-T-MO-0.5MM-(*)			0.5	0.08	66	0.09	
304-T-MO-0.75MM-(*)	Copper-Constantan	304 Stainless Steel	0.75	0.13	39	0.13	
304-T-MO-1.0MM-(*)			1.0	0.15	24	0.18	
304-T-MO-1.5MM-(*)			1.5	0.25	9.8	0.25	
304-T-MO-2.0MM-(*)			2.0	0.31	5.6	0.36	
304-T-MO-3.0MM-(*)			3.0	0.46	2.5	0.56	
304-T-MO-4.5MM-(*)	T		4.5	0.66	1.2	0.79	
304-T-MO-6.0MM-(*)			6.0	0.94	0.65	1.02	
INC-T-MO-0.5MM-(*)			0.5	0.08	66	0.09	
INC-T-MO-0.75MM-(*)			0.75	0.13	39	0.13	
INC-T-MO-1.0MM-(*)	Copper-Constantan	Inconel® 600	1.0	0.15	24	0.18	
INC-T-MO-1.5MM-(*)			1.5	0.25	9.8	0.25	
INC-T-MO-2.0MM-(*)			2.0	0.31	5.6	0.36	
INC-T-MO-3.0MM-(*)			3.0	0.46	2.5	0.56	
INC-T-MO-4.5MM-(*)	T		4.5	0.66	1.2	0.79	
INC-T-MO-6.0MM-(*)			6.0	0.94	0.65	1.02	
304-E-MO-0.25MM-(*)			0.25	0.04	2352	0.04	
304-E-MO-0.5MM-(*)			0.5	0.08	190	0.09	
304-E-MO-0.75MM-(*)	CHROMEGA®-Constantan	304 Stainless Steel	0.75	0.13	95	0.13	
304-E-MO-1.0MM-(*)			1.0	0.15	49	0.18	
304-E-MO-1.5MM-(*)			1.5	0.25	20	0.25	
304-E-MO-2.0MM-(*)			2.0	0.31	11	0.36	
304-E-MO-3.0MM-(*)			3.0	0.46	5.2	0.56	
304-E-MO-4.5MM-(*)	E		4.5	0.66	3.0	0.79	
304-E-MO-6.0MM-(*)			6.0	0.94	1.6	1.02	
INC-E-MO-0.25MM-(*)			0.25	0.04	2352	0.04	
INC-E-MO-0.5MM-(*)			0.5	0.08	190	0.09	
INC-E-MO-0.75MM-(*)	CHROMEGA®-Constantan	Inconel® 600	0.75	0.13	95	0.13	
INC-E-MO-1.0MM-(*)			1.0	0.15	49	0.18	
INC-E-MO-1.5MM-(*)			1.5	0.25	20	0.25	
INC-E-MO-2.0MM-(*)			2.0	0.31	11	0.36	
INC-E-MO-3.0MM-(*)			3.0	0.46	5.2	0.56	
INC-E-MO-4.5MM-(*)	E		4.5	0.66	3.0	0.7	
INC-E-MO-6.0MM-(*)			6.0	0.94	1.6	1.02	

**** 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 CHROMEGA®-ALOMEGA® wire with 304 SS sheath, 1.5 mm diameter.*

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