

# 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.

Discount Schedule for OMEGACLAD®					
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%

Consult sales on larger quantities.

**Type N  
Available with  
Inconel Sheath**

Continuous Lengths from 5 feet to thousands of feet.

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

- Available in 304, 310, 316, and 321 Stainless Steel, Inconel® 600 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"

### To Order

Model Number	Wire Calibration	Sheath Material	Sheath Diameter (inch)	Wall Thickness (inch)	Resistance at 60°F Ω/Dbl. ft.	Wire Diameter (inch)	AWG Gage
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-(*)	Iron-Constantan <b>J</b>	304 Stainless Steel	0.020, 0.032, 0.040, 0.062, 0.125, 0.188, 0.250	0.003, 0.005, 0.007, 0.010, 0.018, 0.025, 0.036	23, 14.2, 8.9, 3.6, 0.88, 0.36, 0.22	0.004, 0.005, 0.006, 0.010, 0.020, 0.032, 0.040	38, 36, 34, 30, 24, 20, 18
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-(*)	Iron-Constantan <b>J</b>	Inconel 600	0.020, 0.032, 0.040, 0.062, 0.125, 0.188, 0.250	0.003, 0.005, 0.007, 0.010, 0.018, 0.025, 0.036	23, 14.2, 8.9, 3.6, 0.88, 0.36, 0.22	0.004, 0.005, 0.006, 0.010, 0.020, 0.032, 0.040	38, 36, 34, 30, 24, 20, 18
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-(*)	CHROMEQA®-ALOMEGA® <b>K</b>	304 Stainless Steel	0.010, 0.020, 0.032, 0.040, 0.062, 0.125, 0.188, 0.250	0.0015, 0.003, 0.005, 0.007, 0.010, 0.018, 0.025, 0.036	600, 38, 24.1, 15, 6.0, 1.5, 0.59, 0.37	0.0015, 0.004, 0.005, 0.006, 0.010, 0.020, 0.032, 0.040	50, 38, 36, 34, 30, 24, 20, 18
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-(*)	CHROMEQA®-ALOMEGA® or OMEGA-P® OMEGA-N® <b>K or N†</b>	Inconel 600	0.010, 0.020, 0.032, 0.040, 0.062, 0.125, 0.188, 0.250, 0.312	0.0015, 0.003, 0.005, 0.007, 0.010, 0.018, 0.025, 0.036, 0.040	600, 38, 24.1, 15, 6.0, 1.5, 0.59, 0.37, 0.37	0.0015, 0.004, 0.005, 0.006, 0.010, 0.020, 0.032, 0.040, 0.044	50, 38, 36, 34, 30, 24, 20, 18
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-(*)	Copper-Copper-Constantan <b>T</b>	304 Stainless Steel	0.020, 0.032, 0.040, 0.062, 0.125, 0.188, 0.250	0.003, 0.005, 0.007, 0.010, 0.018, 0.025, 0.036	20, 12.2, 7.7, 3.0, 0.75, 0.298, 0.19	0.004, 0.005, 0.006, 0.010, 0.020, 0.032, 0.040	38, 36, 34, 30, 24, 20, 18
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-(*)	Copper-Constantan <b>T</b>	Inconel 600	0.020, 0.032, 0.040, 0.062, 0.125, 0.188, 0.250	0.003, 0.005, 0.007, 0.010, 0.018, 0.025, 0.036	19.99, 12.2, 7.66, 3.04, 0.75, 0.19, 0.19	0.004, 0.005, 0.006, 0.010, 0.020, 0.032, 0.040	38, 36, 34, 30, 24, 20, 18
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-(*)	CHROMEQA®-Constantan <b>E</b>	304 Stainless Steel	0.010, 0.020, 0.032, 0.040, 0.062, 0.125, 0.188, 0.250	0.0015, 0.003, 0.005, 0.007, 0.010, 0.018, 0.025, 0.036	716.9, 45.1, 28.8, 18.09, 7.17, 1.78, 0.71, 0.45	0.0015, 0.004, 0.005, 0.006, 0.010, 0.020, 0.032, 0.040	50, 38, 36, 34, 30, 24, 20, 18
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-(*)	CHROMEQA®-Constantan <b>E</b>	Inconel 600	0.010, 0.020, 0.032, 0.040, 0.062, 0.125, 0.188, 0.250	0.0015, 0.003, 0.005, 0.007, 0.010, 0.018, 0.025, 0.036	716.9, 45.1, 28.8, 18.09, 7.17, 1.78, 0.71, 0.45	0.0015, 0.004, 0.005, 0.006, 0.010, 0.020, 0.032, 0.040	50, 38, 36, 34, 30, 24, 20, 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: 304-K-MO-062-125, Inconel 600 sheath, Type K or N wire, CHROMEQA®-ALOMEGA® insulation, 0.125" cable OD, 25'.

INC-N-MO-125-25, Inconel 600 sheath, Type N wire, MgO insulation, 0.125" cable OD, 25'.