

Low Drift Mineral Insulated Cable For Use up to 1150°C (2102°F)

Super OMEGACLAD® XL

Super Accurate, Super Stable, Super Value



Don't Settle for Less!

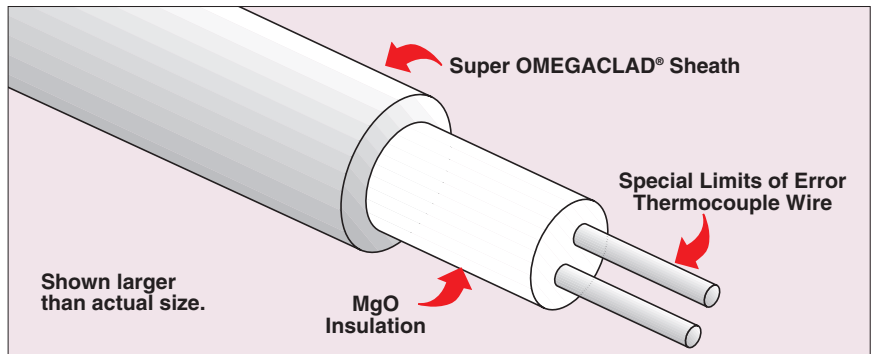
- ✓ Excellent Long Term Stability at High Temperatures
- ✓ Continuous use up to 1150°C (2102°F)
- ✓ Excellent Oxidation, Carburization and Chlorination Resistance
- ✓ Made from High Accuracy Special Limits of Error (SLE) Material
- ✓ Available with Type K or Type N Calibration Wire (Special Requests Can Be Taken for Other Calibrations)
- ✓ Available from **STOCK!** Cut to Length or Long Continuous Lengths



Look for this logo to identify probes available in Super OMEGACLAD® sheathed thermocouple wire.



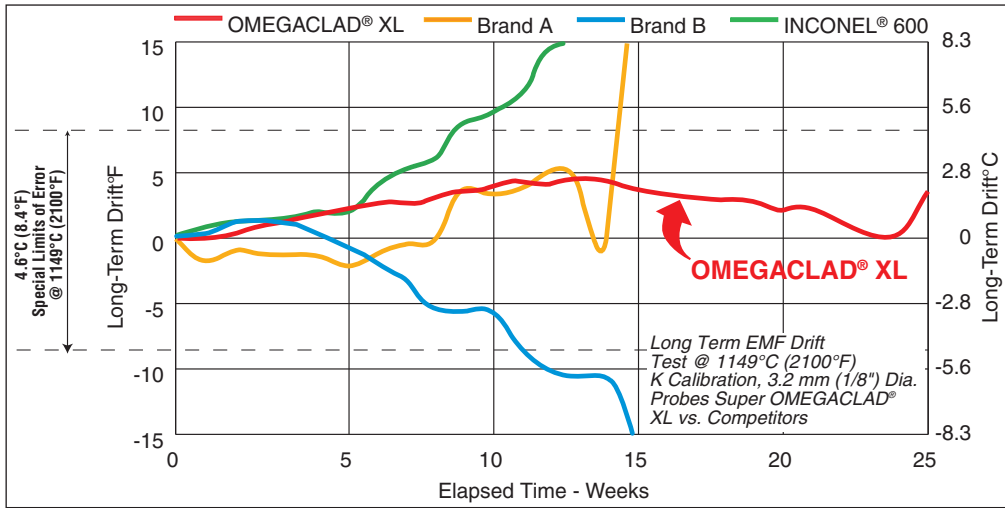
Super OMEGACLAD® XL sheathed mineral-insulated thermocouple wire, designated "XL" for ordering, can be used at high temperatures for prolonged periods with very little drift of the base metal thermocouple. The sheath material uses Nickel-Chrome based Super OMEGACLAD® XL sheathing, which provides excellent oxidation resistance. The sheath can withstand long-term exposure to combustion gases or air at temperatures up to 1150°C (2102°F). Short-term exposures to higher temperatures are also possible. Superior resistance to oxidation attack results from a tenacious and protective high temperature film that does not affect the stability of the thermocouple alloys. This film permits the sensor to be used at ultra-high temperatures for prolonged periods with improved accuracy over other available sheath materials. Super OMEGACLAD® sheathing also provides excellent resistance to corrosion in high temperature chlorine-contaminated oxidizing environments and ammonia/nitride-rich environments at temperatures above 980°C (1800°F), the temperature at which the protective film forms.



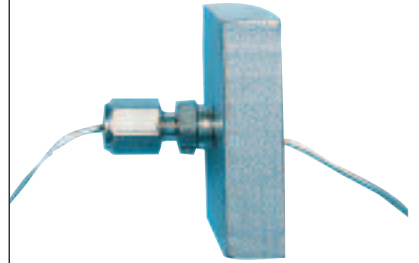
Discount Schedule			
Metric (Meters)	Standard (Feet)	Dia below 1.0 mm (0.040")	Dia ≥ 1.0 mm (0.040")
0 to 3	0 to 10	Net	Net
4 to 8	11 to 25	Net	10%
9 to 15	26 to 50	10%	25%
16 to 30	51 to 100	10%	30%

Consult sales on larger quantities.

Super OMEGACLAD® XL = Super Stability at High Temperatures!



**Super OMEGACLAD® XL
Beats the Competition with
Very Low Long Term Drift!**



Specifications

Property	Value	Ref. Temp °C (°F)
Density	8.5 g/cu ³	21 (70)
Melting Temperature	1380°C (2516°F)	N/A
Electrical Resistivity	698 Ω-cir-mil ft	1200 (2200)
Thermal Conductivity	36.7 W/m-K	1200 (2200)
Modulus of Elasticity	137 GPa	1000 (1850)
Tensile Strength	50 MPa	1100 (2000)
Elongation	80%	1100 (2000)

**Bends
Easily!**

**Also Available
in Dual Wire
Construction**



Available!

Stripping tools for OMEGACLAD® XL cable. See PST Series Strippers on page H-61.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Standard Dimensions Model Number	[*] Insert Wire Calibration	Sheath Material	Sheath Dia. in.	Wall Thickness in.	Resistance at 60°F Ohms/ Dbl. Ft.	Wire Dia. in.	Price/ Foot
XL-[*]-MO-010-[**]	TYPE K or TYPE N	OMEGACLAD® XL	0.010	0.0015	72	0.002	\$5.00
XL-[*]-MO-020-[**]		OMEGACLAD® XL	0.020	0.003	38	0.004	5.00
XL-[*]-MO-032-[**]		OMEGACLAD® XL	0.032	0.005	24	0.005	5.00
XL-[*]-MO-040-[**]		OMEGACLAD® XL	0.040	0.007	15	0.006	1.70
XL-[*]-MO-062-[**]		OMEGACLAD® XL	0.062	0.010	6.0	0.010	2.10
XL-[*]-MO-125-[**]		OMEGACLAD® XL	0.125	0.018	1.5	0.021	4.20
XL-[*]-MO-188-[**]		OMEGACLAD® XL	0.188	0.025	0.59	0.032	6.70
XL-[*]-MO-250-[**]		OMEGACLAD® XL	0.250	0.036	0.37	0.040	11.60
XL-[*]-MO-313-[**]		OMEGACLAD® XL	0.313	0.040	0.35	0.050	18.20
Metric Dimensions Model Number	[*] Insert Wire Calibration	Sheath Material	Sheath Dia. mm	Wall Thickness mm	Resistance 15.5°C Ohms/ Dbl. meter	Wire Dia. mm	Price/ Meter
XL-[*]-MO-0.25 MM-[**]	TYPE K or TYPE N	OMEGACLAD® XL	0.25	0.038	236	0.045	\$16.30
XL-[*]-MO-0.5 MM-[**]		OMEGACLAD® XL	0.5	0.076	125	0.089	16.30
XL-[*]-MO-0.75 MM-[**]		OMEGACLAD® XL	0.75	0.113	79	0.134	16.30
XL-[*]-MO-1.0 MM-[**]		OMEGACLAD® XL	1.0	0.152	49	0.178	5.50
XL-[*]-MO-1.5 MM-[**]		OMEGACLAD® XL	1.5	0.254	20	0.254	6.75
XL-[*]-MO-2.0 MM-[**]		OMEGACLAD® XL	2.0	0.305	12	0.356	10.20
XL-[*]-MO-3.0 MM-[**]		OMEGACLAD® XL	3.0	0.457	4.9	0.559	14.10
XL-[*]-MO-4.5 MM-[**]		OMEGACLAD® XL	4.5	0.660	1.9	0.787	22.00
XL-[*]-MO-6.0 MM-[**]		OMEGACLAD® XL	6.0	0.940	1.2	1.016	38.15
XL-[*]-MO-8.0 MM-[**]	OMEGACLAD® XL	8.0	1.016	1.1	1.270	59.70	

[*] Insert "K" for Type K Cable or "N" for Type N Cable. [**] Insert length in feet for standard models or in meters for metric models.
Ordering Examples: XL-K-MO-125-250, 250' of 0.125" Dia. Type K cable, \$4.20/ft x 250' = \$1050 (less 25% discount) = **\$787.50**.
 XL-N-MO-3.0 MM-100, 100 meters of 3.0 mm Dia. Type N cable, \$14.10/m x 100 m = \$1410 (less 30% discount) = **\$1057.50**.



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
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1-800-TC-OMEGA

GERMANY

www.omega.de
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0800-8266342

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www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

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088-466-342

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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

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• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters