

# 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!**

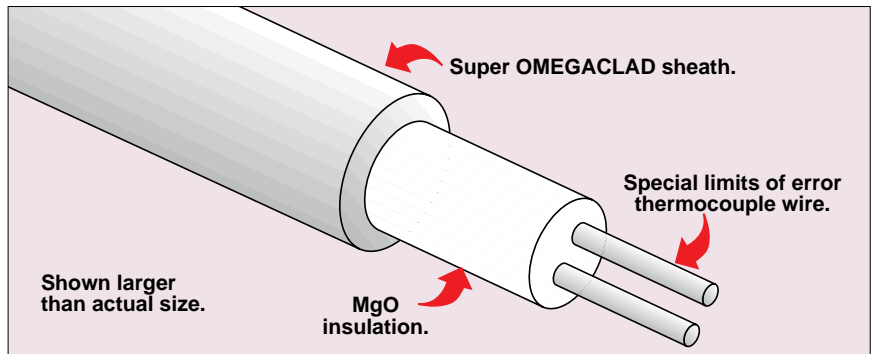
- ✓ Excellent Long Term Stability at High Temperatures
- ✓ Continuous Use Up to 1150°C (2102°F)
- ✓ Excellent Oxidation, Carburization and Chlorination Resistance
- ✓ Made from High Accuracy Special Limits of Error (SLE) Material
- ✓ Available with Type K or Type N Calibration Wire (Special Requests 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.



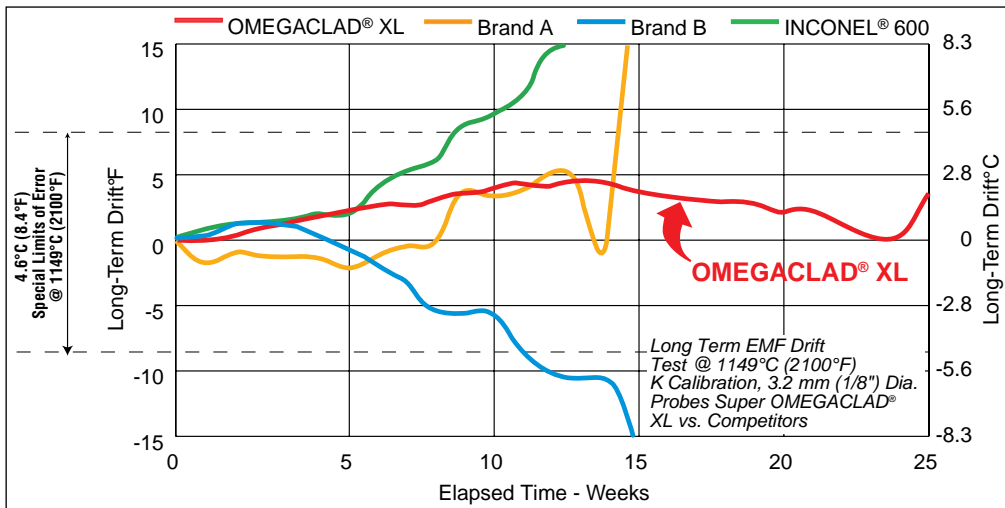
Super OMEGACLAD® XL sheathed mineral-insulated thermocouple wire, designated "XL" for ordering, can be used at high temperatures for prolonged periods with very little drift of the base metal thermocouple. The sheath material uses Nickel-Chrome based Super OMEGACLAD XL sheathing, which provides excellent 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 XL 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/cu³	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 at OMEGA.

## To Order

Standard Dimensions Model Number	[*] Insert Wire Calibration	Sheath Material	Sheath Dia. inch	Wall Thickness inch	Resistance at 60°F Ohms/ Dbl. Ft.	Wire Dia. inch
XL-[*]-MO-010-[*]	<b>TYPE K</b> or <b>TYPE N</b>	OMEGACLAD XL	0.010	0.0015	72	0.002
XL-[*]-MO-020-[*]		OMEGACLAD XL	0.020	0.003	38	0.004
XL-[*]-MO-032-[*]		OMEGACLAD XL	0.032	0.005	24	0.005
XL-[*]-MO-040-[*]		OMEGACLAD XL	0.040	0.007	15	0.006
XL-[*]-MO-062-[*]		OMEGACLAD XL	0.062	0.010	6.0	0.010
XL-[*]-MO-125-[*]		OMEGACLAD XL	0.125	0.018	1.5	0.021
XL-[*]-MO-188-[*]		OMEGACLAD XL	0.188	0.025	0.59	0.032
XL-[*]-MO-250-[*]		OMEGACLAD XL	0.250	0.036	0.37	0.040
XL-[*]-MO-313-[*]		OMEGACLAD XL	0.313	0.040	0.35	0.050
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
XL-[*]-MO-0.25 MM-[*]	<b>TYPE K</b> or <b>TYPE N</b>	OMEGACLAD XL	0.25	0.038	236	0.045
XL-[*]-MO-0.5 MM-[*]		OMEGACLAD XL	0.5	0.076	125	0.089
XL-[*]-MO-0.75 MM-[*]		OMEGACLAD XL	0.75	0.113	79	0.134
XL-[*]-MO-1.0 MM-[*]		OMEGACLAD XL	1.0	0.152	49	0.178
XL-[*]-MO-1.5 MM-[*]		OMEGACLAD XL	1.5	0.254	20	0.254
XL-[*]-MO-2.0 MM-[*]		OMEGACLAD XL	2.0	0.305	12	0.356
XL-[*]-MO-3.0 MM-[*]		OMEGACLAD XL	3.0	0.457	4.9	0.559
XL-[*]-MO-4.5 MM-[*]		OMEGACLAD XL	4.5	0.660	1.9	0.787
XL-[*]-MO-6.0 MM-[*]		OMEGACLAD XL	6.0	0.940	1.2	1.016
XL-[*]-MO-8.0 MM-[*]		OMEGACLAD XL	8.0	1.016	1.1	1.270

[\*] 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.  
XL-N-MO-3.0 MM-100, 100 meters of 3.0 mm Dia. Type N cable.