

High Temperature Mineral Insulated Cable For use up to 1150°C

Super OMEGACLAD™ XL Super Accurate, Super Stable, Super Value!

See Section F for Thermocouple Connectors

Don't Settle for Less!

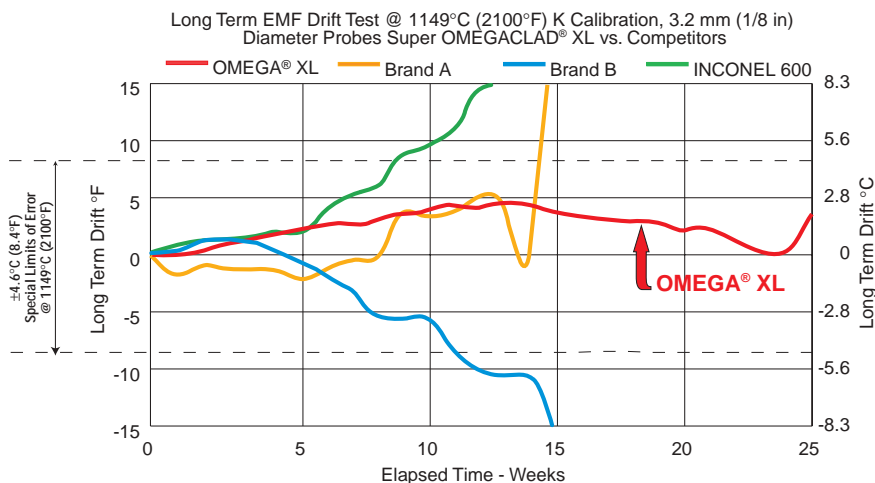
- ✓ Excellent Long Term Stability at High Temperatures
- ✓ Continuous use up to 1150°C
- ✓ Excellent Oxidation, Carburisation and Chlorination Resistance
- ✓ Made from High Accuracy Special Limits of Error (SLE) Material
- ✓ Available with Type "K" or Type "N" Calibration Wire (Special Requests Can Be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

New Super OMEGACLAD® XL sheathed mineral-insulated thermocouple wire, designated "XL" for ordering, can be used at ultra-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. 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 oxidising environments and ammonia/nitride-rich environments at temperatures above 980°C, the temperature at which the protective film forms.

Discount Schedule		
Length (Metres)	Dia below 1.0 mm (.040")	Dia ≥ 1.0 mm (.040")
0-3 m	Net	Net
4 to 8 m	Net	10%
9 to 15 m	10%	25%
16-30 m	10%	30%
31-75 m	25%	35%
76-150 m	30%	35%
151-300 m	Consult	40%
Over 300 m	Factory	45%



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

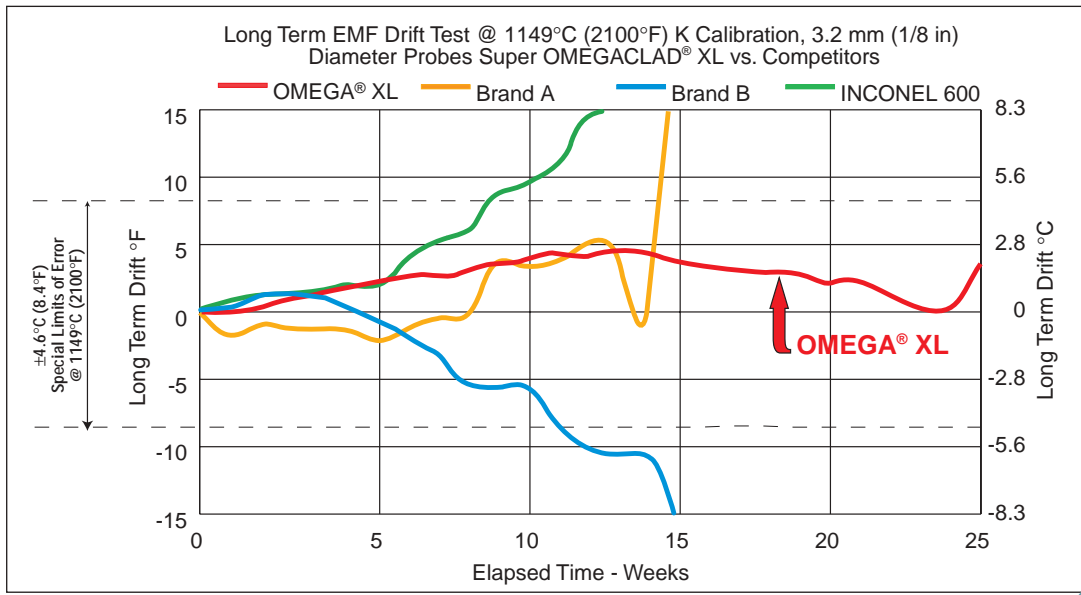


Limits of Error for Type K & N Thermocouple Wire

T/C Type	Temperature Range °C	Limit of Error*	
		Standard	Special
K	0 to 1150	2.2°C or .75%	±1.1°C or 0.4%
N	0 to 1150	2.2°C or .75%	±1.1°C or 0.4%

*Whichever is greater





Specifications

Property	Value	Ref. Temp. °C
Density	8.5 g/cu ³	21
Melting Temperature	1380°-1400C	N/A
Electrical Resistivity	698 Ω-cir-mil ft	1200
Thermal Conductivity	36.7 W/m-K	1200
Modulus of Elasticity	137 GPa	1000
Tensile Strength	50 MPa	1100
Elongation	80%	1100



To Order (Specify Model No.) ALL SIZES IN STOCK FOR FAST DELIVERY!

Imperial Model Number	[*] Insert Wire Calibration	Sheath Material	Sheath Diameter(in)	Wall Thickness(in)	Resistance at 15.5°C Ohms/ Dbl. Metre	Wire Dia. (in)	Price/Metre
XL-[*]-MO-020-[**]	TYPE K or TYPE N	Omegaclad XL	0.020	0.003	125	0.004	£3.80
XL-[*]-MO-032-[**]		Omegaclad XL	0.032	0.005	79	0.005	3.80
XL-[*]-MO-040-[**]		Omegaclad XL	0.040	0.007	49	0.006	3.80
XL-[*]-MO-062-[**]		Omegaclad XL	0.062	0.010	19.7	0.010	4.60
XL-[*]-MO-125-[**]		Omegaclad XL	0.125	0.018	4.9	0.021	9.40
XL-[*]-MO-188-[**]		Omegaclad XL	0.188	0.025	1.9	0.032	12.75
XL-[*]-MO-250-[**]		Omegaclad XL	0.250	0.036	1.2	0.040	22.25
XL-[*]-MO-313-[**]		Omegaclad XL	0.313	0.040	1.1	0.050	35.00
XL-[*]-MO-375-[**]		Omegaclad XL	0.375	0.045	0.95	0.059	50.00

Metric Model Number	[*] Insert Wire Calibration	Sheath Material	Sheath Diameter	Wall Thickness	Resistance 15.5°C Ohms/ Dbl. metre	Wire Dia. (mm)	Price/Metre
XL-[*]-MO-0.5mm-[**]	TYPE K or TYPE N	Omegaclad XL	0.5 mm	0.076 mm	173	0.089 mm	£3.80
XL-[*]-MO-.75mm-[**]		Omegaclad XL	0.75 mm	0.113 mm	77	0.134 mm	3.80
XL-[*]-MO-1.0mm-[**]		Omegaclad XL	1.0 mm	0.152 mm	43	0.178 mm	3.80
XL-[*]-MO-1.5mm-[**]		Omegaclad XL	1.5 mm	0.254 mm	19	0.254 mm	4.60
XL-[*]-MO-2.0mm-[**]		Omegaclad XL	2.0 mm	0.305 mm	10.8	0.356 mm	7.00
XL-[*]-MO-3.0mm-[**]		Omegaclad XL	3.0 mm	0.457 mm	4.8	0.559 mm	9.60
XL-[*]-MO-4.5mm-[**]		Omegaclad XL	4.5 mm	0.660 mm	2	0.787 mm	12.75
XL-[*]-MO-6.0mm-[**]		Omegaclad XL	6.0 mm	0.940 mm	1.2	1.016 mm	22.25
XL-[*]-MO-8.0mm-[**]		Omegaclad XL	8.0 mm	1.016 mm	1.1	1.270 mm	35.00
XL-[*]-MO-9.6mm-[**]	Omegaclad XL	9.6 mm	1.143mm	0.95	1.499 mm	50.00	

[*] Insert "K" for Type K Cable or "N" for Type N Cable, [**] Insert Length in Metres
 Ordering Example: XL-K-MO-125-250, 250 metres of 0.125" dia. type K cable, £1410, £9.40/m x 250 = £2350 (-40% Discount) = £1410.
 Ordering Example: XL-N-MO-2.0mm-100, 100 metres of 2.0 mm dia type N cable, £455, £7/m x 100m = £700 (-35% Discount) = £455.