

Thermocouple Wire Duplex Insulated



ANSI color code shown **To order IEC color code see pg. H-9**

OMEGALLOY®
OMEGA-P®-OMEGA-N®
Nicrosil-Nisil
Duplex ANSI Type N

ALL MODELS AVAILABLE FOR FAST DELIVERY!

ANSI Color Code: Positive Wire, Orange; Negative Wire, Red; Overall, Brown
OMEGA Engineering does not use reprocessed Teflon® or PVC in manufacturing thermocouple wire.

Duplex Insulated Wire											
Insulation	AWG No.	Model Number	Price/1000'	SLE/1000' ^{†††}	Type Wire	Insulation		Max. Temp		Nominal Size mm	Wt. [†] kg/300m (lb/1000')
						Conductor	Overall	°C	°F		
Ceramic*	14	XC-N-14	\$2995	\$3445	Solid	Nextel Ceramic	Nextel Ceramic	1090	2000	3.6 x 5.0 (0.140 x 0.200)	8 (18)
	20	XC-N-20	1695	1950	Solid	Nextel Ceramic	Nextel Ceramic	980	1800	3.4 x 4.8 (0.135 x 0.190)	4 (8)
	20	XT-N-20	1575	1810	Solid	Nextel Ceramic	Nextel Ceramic	980	1800	2.7 x 3.9 (0.105 x 0.155)	3 (7)
	20	XL-N-20	1425	1640	Solid	Nextel Ceramic	Nextel Ceramic	980	1800	2.4 x 3.4 (0.095 x 0.135)	3 (7)
	24	XC-N-24	1495	1720	Solid	Nextel Ceramic	Nextel Ceramic	980	1800	2.9 x 4.4 (0.115 x 0.175)	3 (6)
	24	XT-N-24	1325	1525	Solid	Nextel Ceramic	Nextel Ceramic	980	1800	2.2 x 3.4 (0.088 x 0.132)	3 (5)
	24	XL-N-24	1225	1410	Solid	Nextel Ceramic	Nextel Ceramic	980	1800	2.0 x 3.0 (0.078 x 0.116)	3 (5)
Silica*	14	XS-N-14	1950	2240	Solid	Silica	Silica	1090	2000	3.6 x 5.0 (0.140 x 0.200)	8 (16)
	20	XS-N-20	1075	1235	Solid	Silica	Silica	980	1800	2.7 x 3.9 (0.105 x 0.155)	3 (6)
	24	XS-N-24	895	1025	Solid	Silica	Silica	980	1800	2.2 x 3.4 (0.088 x 0.132)	3 (5)
High Temp. Glass**	20	HH-N-20	590	680	Solid	Hi Temp Glass	Hi Temp Glass	704	1300	1.5 x 2.7 (0.060 x 0.105)	2 (4)
	24	HH-N-24	420	483	Solid	Hi Temp Glass	Hi Temp Glass	704	1300	1.4 x 2.3 (0.055 x 0.090)	1 (3)
Glass	20	GG-N-20	505	580	Solid	Glass Braid	Glass Braid	482	900	1.5 x 2.1 (0.060 x 0.095)	2 (4)
	24	GG-N-24	350	405	Solid	Glass Braid	Glass Braid	482	900	1.3 x 2.0 (0.050 x 0.080)	1 (3)
	30	GG-N-30	290	335	Solid	Glass Wrap	Glass Braid	482	900	0.9 x 1.3 (0.037 x 0.050)	1 (2)
Teflon® Glass	30	TG-N-30	530	-	Solid	PFA	Glass Braid	260	500	0.9 x 1.2 (0.034 x 0.047)	0.5 (1)
PFA	20	TT-N-20	710	815	Solid	PFA	PFA	260	500	1.7 x 3.0 (0.068 x 0.116)	3 (5)
	24	TT-N-24	495	570	Solid	PFA	PFA	260	500	1.4 x 2.4 (0.056 x 0.093)	2 (3)
Neoflon	30	TT-N-30 ^{††}	380	435	Solid	PFA	PFA	260	500	0.6 x 1.0 (0.024 x 0.040)	0.5 (1)

* Has color tracers on jacket and conductors. ** HH Wire has trace thread in Positive leg, Negative leg is red, overall has trace thread.

† Weight of spool and wire rounded to the next highest kg (lb), does not include packaging material. †† Overall color clear

††† To order special limits of error wire, add "-SLE" to model number before spool length

Ordering Example: GG-N-24-SLE-1000, 1000' (300 m) of Type N duplex insulated special limits of error thermocouple wire, \$405.

Fine Diameter Bare Wire OMEGALLOY®			
Material	Wire Dia. mm (in)	Model Number	Price 15 m (50') Spools
OMEGA-P® Nicrosil	0.076 (0.003)	SPOP-003-50	\$15.60
	0.13 (0.005)	SPOP-005-50	12.00
	0.25 (0.010)	SPOP-010-50	12.00
	0.50 (0.020)	SPOP-020-50	19.20
	0.81 (0.032)	SPOP-032-50	19.20
OMEGA-N® Nisil	0.076 (0.003)	SPON-003-50	15.60
	0.13 (0.005)	SPON-005-50	12.00
	0.25 (0.010)	SPON-010-50	12.00
	0.50 (0.020)	SPON-020-50	19.20
	0.81 (0.032)	SPON-032-50	19.20

Spool Pricing Guidelines	
Multiply 300 m or 1000' spool price by multiplier and round to nearest dollar or Consult Sales.	
7.5 m or 25'	= Price from Chart x 0.0625
15 m or 50'	= Price from Chart x 0.1
30 m or 100'	= Price from Chart x 0.175
60 m or 200'	= Price from Chart x 0.3
150 m or 500'	= Price from Chart x 0.5
300 m or 1000'	= Price from Chart x 1.0

FOR LONGER LENGTHS CONSULT SALES FOR PRICE AND DELIVERY!

Gold and CHROMEAG® Thermocouples and Wire

Teflon® Insulated Gold-0.07 Atomic% Fe Wire (negative)

Model Number	Dia. mm (in)	Price/Inch
TFAU.07FE-003	0.076 (0.003)	\$2.10
TFAU.07FE-005	0.13 (0.005)	2.30
TFAU.07FE-010	0.25 (0.010)	3.45

Teflon® Insulated CHROMEAG® Gold-0.07 Atomic% Fe Thermocouples

Model Number	Dia. mm (in)	Price 300 mm (12")	Price/Add'l 300 mm (12")
TFAU.07FE-003-TC-12	0.076 (0.003)	\$35	\$30
TFAU.07FE-005-TC-12	0.13 (0.005)	35	30
TFAU.07FE-010-TC-12	0.25 (0.010)	45	40

Note: Price is subject to change due to precious metal market fluctuations.

Teflon® Insulated CHROMEAG® Wire (positive)

Model Number	Dia. mm (in)	Price/15 m (50')
TFCH-003-50	0.076 (0.003)	\$16.00
TFCH-005-50	0.13 (0.005)	16.00
TFCH-010-50	0.25 (0.010)	16.00

Note: CHROMEAG®-gold Temperature vs Thermoelectric EMF tables can be found in OMEGA's OP-5A Reference Book, Table 11.4. Available from BOOK of BOOKS® - www.books1.com and e-mail: info@books1.com

Use CHROMEAG® (+) vs Copper (-) for extension wire in the temperature range: -40 to 30°C (-40 to 86°F).

Available!

OMEGA will overbraid any thermocouple wire with Inconel 600, 304 SS or tinned copper overbraiding. Both Inconel 600 and SS add durability and abrasion protection. Please see page H-42





UNITED STATES

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

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

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

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• 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

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• 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