

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	Type Wire	Insulation		Max. Temp		Nominal Size mm	Wt.† kg/300m (lb/1000')		
				Conductor	Overall	°C	°F				
Ceramic*	14	XC-N-14	Solid	Nextel Ceramic	Nextel Ceramic	1090	2000	3.6 x 5.0 (0.140 x 0.200)	8 (18)		
	20	XC-N-20	Solid	Nextel Ceramic	Nextel Ceramic	980	1800	3.4 x 4.8 (0.135 x 0.190)	4 (8)		
	20	XT-N-20	Solid	Nextel Ceramic	Nextel Ceramic	980	1800	2.7 x 3.9 (0.105 x 0.155)	3 (7)		
	20	XL-N-20	Solid	Nextel Ceramic	Nextel Ceramic	980	1800	2.4 x 3.4 (0.095 x 0.135)	3 (7)		
	24	XC-N-24	Solid	Nextel Ceramic	Nextel Ceramic	980	1800	2.9 x 4.4 (0.115 x 0.175)	3 (6)		
	24	XT-N-24	Solid	Nextel Ceramic	Nextel Ceramic	980	1800	2.2 x 3.4 (0.088 x 0.132)	3 (5)		
Silica*	14	XS-N-14	Solid	Silica	Silica	1090	2000	3.6 x 5.0 (0.140 x 0.200)	8 (16)		
	20	XS-N-20	Solid	Silica	Silica	980	1800	2.7 x 3.9 (0.105 x 0.155)	3 (6)		
	24	XS-N-24	Solid	Silica	Silica	980	1800	2.2 x 3.4 (0.088 x 0.132)	3 (5)		
High Temp. Glass**	20	HH-N-20	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	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	Solid	Glass Braid	Glass Braid	482	900	1.5 x 2.1 (0.060 x 0.095)	2 (4)		
	24	GG-N-24	Solid	Glass Braid	Glass Braid	482	900	1.3 x 2.0 (0.050 x 0.080)	1 (3)		
	30	GG-N-30	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	Solid	PFA	Glass Braid	260	500	0.9 x 1.2 (0.034 x 0.047)	0.5 (1)		
PFA	20	TT-N-20	Solid	PFA	PFA	260	500	1.7 x 3.0 (0.068 x 0.116)	3 (5)		
Teflon®	24	TT-N-24	Solid	PFA	PFA	260	500	1.4 x 2.4 (0.056 x 0.093)	2 (3)		
Neoflon	30	TT-N-30††	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,

Fine Diameter Bare Wire			OMEGALLOY®
Material	Wire Dia. mm (in)	Model Number	
OMEGA-P® Nicrosil	0.076 (0.003)	SPOP-003-50	
	0.13 (0.005)	SPOP-005-50	
	0.25 (0.010)	SPOP-010-50	
	0.50 (0.020)	SPOP-020-50	
	0.81 (0.032)	SPOP-032-50	
OMEGA-N® Nisil	0.076 (0.003)	SPON-003-50	
	0.13 (0.005)	SPON-005-50	
	0.25 (0.010)	SPON-010-50	
	0.50 (0.020)	SPON-020-50	
	0.81 (0.032)	SPON-032-50	

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 CHROMEPA® Thermocouples and Wire

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

Model Number	Dia. mm (in)
TFAU.07FE-003	0.076 (0.003)
TFAU.07FE-005	0.13 (0.005)
TFAU.07FE-010	0.25 (0.010)

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

Model Number	Dia. mm (in)
TFAU.07FE-003-TC-12	0.076 (0.003)
TFAU.07FE-005-TC-12	0.13 (0.005)
TFAU.07FE-010-TC-12	0.25 (0.010)

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

Teflon® Insulated CHROMEPA® Wire (positive)

Model Number	Dia. mm (in)
TFCH-003-50	0.076 (0.003)
TFCH-005-50	0.13 (0.005)
TFCH-010-50	0.25 (0.010)

Note: CHROMEPA®-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 CHROMEPA® (+) 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





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• Flow and Level

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• pH and Conductivity

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• Pressure, Strain and Force

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• Heaters

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