

# Thermocouple Wire

## Duplex Insulated

ANSI color code shown To order IEC color code visit us online



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

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

Duplex Insulated Wire									
Insulation	AWG No.	Model Number	Type Wire	Insulation		Max. Temp		Nominal Size mm	Wt.† kg/300 m (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)	18 (38)
	20	XC-N-20	Solid			980	1800	3.4 x 4.8 (0.135 x 0.190)	8 (16)
	20	XT-N-20	Solid			980	1800	2.7 x 3.9 (0.105 x 0.155)	7 (15)
	20	XL-N-20	Solid			980	1800	2.4 x 3.4 (0.095 x 0.135)	7 (14)
	24	XC-N-24	Solid			980	1800	2.9 x 4.4 (0.115 x 0.175)	6 (12)
	24	XT-N-24	Solid			980	1800	2.2 x 3.4 (0.088 x 0.132)	5 (11)
Silica*	14	XS-N-14	Solid	Silica	Silica	1090	2000	3.6 x 5.0 (0.140 x 0.200)	16 (35)
	20	XS-N-20	Solid			980	1800	2.7 x 3.9 (0.105 x 0.155)	6 (12)
	24	XS-N-24	Solid			980	1800	2.2 x 3.4 (0.088 x 0.132)	5 (10)
High Temp. Glass**	20	HH-N-20	Solid	High Temp Glass	High Temp Glass	704	1300	1.5 x 2.7 (0.060 x 0.105)	4 (9)
	24	HH-N-24	Solid			704	1300	1.4 x 2.3 (0.055 x 0.090)	3 (5)
Glass	20	GG-N-20	Solid	Glass Braid	Glass Braid	482	900	1.5 x 2.1 (0.060 x 0.095)	4 (9)
	20	GG-N-20S	7 x 28	Glass Braid		482	900	1.5 x 2.5 (0.060 x 0.100)	4 (9)
	24	GG-N-24	Solid	Glass Braid		482	900	1.3 x 2.0 (0.050 x 0.080)	3 (5)
	24	GG-N-24S	7 x 32	Glass Braid		482	900	1.3 x 2.2 (0.050 x 0.085)	3 (5)
	30	GG-N-30	Solid	Glass Wrap		482	900	0.9 x 1.3 (0.037 x 0.050)	2 (3)
PFA Glass	30	TG-N-30	Solid	PFA	Glass Braid	260	500	0.9 x 1.2 (0.034 x 0.047)	1 (2)
PFA Neoflon	20	TT-N-20	Solid	PFA	PFA	260	500	1.7 x 3.0 (0.068 x 0.116)	5 (11)
	20	TT-N-20S	7 x 28			260	500	1.9 x 3.2 (0.073 x 0.126)	5 (11)
	24	TT-N-24	Solid			260	500	1.4 x 2.4 (0.056 x 0.093)	3 (6)
	24	TT-N-24S	7 x 24			260	500	1.6 x 2.6 (0.063 x 0.102)	3 (6)
	30	TT-N-30††	Solid			260	500	0.6 x 1.0 (0.022 x 0.038)	1 (2)

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

TT-N-20-1000, 1000' (300 m) of Type N duplex insulated thermocouple wire.

Fine Diameter Bare Wire		OMEGALLOY®
Material	Wire Dia. mm (Inch)	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
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!**

**Note:** Published prices are based on market value at time of printing and are subject to change due to Nickel surcharges, Chromium and precious-metal market fluctuations.

**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.