

Thermocouple Wire

Duplex Insulated



**"SLE" Special
Limits of Error
Available**

K Duplex Insulated
CHROMETM-ALOMEGATM
Duplex ANSI Type K

**ANSI
color
code
shown**

**To order
IEC color
code visit
us online**

ANSI Color Code: Positive Wire, Yellow; Negative Wire, Red; Overall, Brown

OMEGA Engineering does not use reprocessed PFA or PVC in manufacturing thermocouple wire

Insulation	AWG No.	Model Number	Type Wire	Insulation		Max. Temp °C °F		Nominal Size mm (inch)	Wt.† kg/300 m (lb/1000')
				Conductor	Overall				
Ceramic*	14	XC-K-14	Solid	Nextel Ceramic	Nextel Ceramic	1090	2000	3.6 x 5.0 (0.140 x 0.200)	18 (38)
	20	XC-K-20	Solid			980	1800	3.4 x 4.8 (0.135 x 0.190)	8 (16)
	20	XT-K-20	Solid			980	1800	2.7 x 3.9 (0.105 x 0.155)	7 (15)
	20	XL-K-20	Solid			980	1800	2.4 x 3.4 (0.095 x 0.135)	7 (14)
	24	XC-K-24	Solid			870	1600	2.9 x 4.4 (0.115 x 0.175)	6 (12)
	24	XT-K-24	Solid			870	1600	2.2 x 3.4 (0.088 x 0.132)	5 (11)
	24	XL-K-24	Solid			870	1600	2.0 x 3.0 (0.078 x 0.116)	5 (10)
Vitreous Silica*	20	XR-K-20	Solid	Refrasil	Refrasil	870	1600	2.9 x 4.6 (0.115 x 0.180)	6 (14)
Silica*	14	XS-K-14	Solid	Silica	Silica	1090	2000	3.6 x 5.0 (0.140 x 0.200)	16 (35)
	20	XS-K-20	Solid			980	1800	2.7 x 3.9 (0.105 x 0.155)	6 (12)
	24	XS-K-24	Solid			870	1600	2.2 x 3.4 (0.088 x 0.132)	5 (10)
High Temp. Glass**	20	HH-K-20	Solid	High Temp Glass	High Temp Glass	704	1300	1.5 x 2.7 (0.060 x 0.105)	4 (9)
	24	HH-K-24	Solid			704	1300	1.4 x 2.3 (0.055 x 0.090)	3 (5)
Glass	20	GG-K-20	Solid	Glass Braid	Glass Braid	482	900	1.5 x 2.1 (0.060 x 0.095)	4 (9)
	20S	GG-K-20S	7 x 28			482	900	1.5 x 2.5 (0.060 x 0.100)	4 (9)
	24	GG-K-24	Solid			482	900	1.3 x 2.0 (0.050 x 0.080)	3 (5)
	24S	GG-K-24S	7 x 32			482	900	1.3 x 2.2 (0.050 x 0.085)	3 (5)
	26	GG-K-26	Solid			482	900	1.1 x 1.9 (0.045 x 0.075)	2 (4)
	28	GG-K-28	Solid			482	900	1.0 x 1.4 (0.040 x 0.055)	2 (3)
	30	GG-K-30	Solid			482	900	0.9 x 1.3 (0.037 x 0.050)	2 (3)
	36	GG-K-36	Solid			482	900	0.8 x 1.1 (0.033 x 0.045)	1 (2)
Glass with Stainless Steel Overbraid	20	GG-K-20-SB	Solid	Glass	Stainless Steel Braid over Glass	482	900	2.3 x 3.0 (0.090 x 0.120)	6 (14)
	20S	GG-K-20S-SB	7 x 28			482	900	2.3 x 3.2 (0.090 x 0.127)	7 (15)
	24	GG-K-24-SB	Solid			482	900	2.2 x 3.0 (0.085 x 0.117)	5 (11)
	24S	GG-K-24S-SB	7 x 32			482	900	2.0 x 2.8 (0.080 x 0.110)	5 (11)
Kapton Fused Polyimide Tape	20	KK-K-20	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	20S	KK-K-20S	7 x 28			260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	KK-K-24	Solid			260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	KK-K-24S	7 x 32			260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
	30	KK-K-30	Solid			260	500	0.6 x 1.1 (0.026 x 0.044)	3 (5)
PFA Glass	30	TG-K-30	Solid	PFA	Glass Braid	260	500	0.9 x 1.2 (0.034 x 0.047)	1 (2)
	36	TG-K-36	Solid			260	500	0.7 x 1.0 (0.028 x 0.038)	1 (2)
	40	TG-K-40	Solid			260	500	0.7 x 0.9 (0.026 x 0.035)	1 (2)
Neoflon PFA (High Performance)	20	TT-K-20	Solid	PFA	PFA	260	500	1.7 x 3.0 (0.068 x 0.116)	5 (11)
	20	TT-K-20S	7 x 28			260	500	1.9 x 3.2 (0.073 x 0.126)	5 (11)
	22	TT-K-22S	7 x 30			260	500	1.7 x 3.4 (0.065 x 0.133)	4 (9)
	24	TT-K-24	Solid			260	500	1.4 x 2.4 (0.056 x 0.093)	3 (6)
	24	TT-K-24S	7 x 32			260	500	1.6 x 2.6 (0.063 x 0.102)	3 (6)
	30	TT-K-30††	Solid			260	500	0.6 x 1.0 (0.024 x 0.040)	1 (2)
	36	TT-K-36††	Solid			260	500	0.5 x 0.8 (0.019 x 0.030)	1 (2)
	40	TT-K-40††	Solid			260	500	0.4 x 0.7 (0.017 x 0.026)	1 (2)
PFA Polymer w/Twisted and Shielded Conductors	20	TT-K-20-TWSH	Solid	PFA Polymer	PFA Polymer and Shielding	260	500	3.7 (0.15)	9 (20)
	20S	TT-K-20S-TWSH	7 x 28			260	500	3.8 (0.15)	9 (20)
	24	TT-K-24-TWSH	Solid			260	500	2.7 (0.11)	4 (9)
	24S	TT-K-24S-TWSH	7 x 32			260	500	2.9 (0.12)	4 (9)
Neoflon FEP	20	FF-K-20	Solid	FEP	FEP	200	392	1.7 x 3.0 (0.068 x 0.116)	5 (11)
	24	FF-K-24	Solid			200	392	1.7 x 3.0 (0.056 x 0.092)	3 (6)
FEP Polymer w/Twisted and Shielded Conductors	20	FF-K-20-TWSH	Solid	FEP Polymer	FEP Polymer and Shielding	200	392	3.7 (0.15)	9 (20)
	20S	FF-K-20S-TWSH	7 x 28			200	392	3.8 (0.15)	9 (20)
	24	FF-K-24-TWSH	Solid			200	392	2.7 (0.11)	4 (9)
	24S	FF-K-24S-TWSH	7 x 32			200	392	2.9 (0.12)	4 (9)
TFE Tape Polymer	20	TFE-K-20	Solid	TFE Tape Polymer	Fused TFE Tape Polymer	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	20S	TFE-K-20S	7 x 28			260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	TFE-K-24	Solid			260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	TFE-K-24S	7 x 32			260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
Polyvinyl	24	PR-K-24	Solid	Polyvinyl	(Rip Cord)*** (Polyvinyl)	105	221	1.4 x 2.3 (0.050 x 0.086)	3 (5)
	24	PP-K-24S	7 x 32			105	221	2.0 x 3.4 (0.082 x 0.134)	3 (5)

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

††† To order special limits of error wire, add "-SLE" to model number before spool length. * Has color tracers on jacket and conductors.

** HH Wire has trace thread in positive leg, negative leg is red, overall has trace thread. *** Two insulated leads bonded together, but with no overwrap.

Additional Type K insulated wires are available. See Fused Tape Insulated TFE-K and KK-K Series.

Ordering Example: XC-K-20-SLE-1000, 1000' (300 m) of Type K duplex insulated special limits of error thermocouple wire.