

# Thermocouple Wire Duplex Insulated

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

**ANSI  
color  
code  
shown** **To order  
IEC color  
code see  
page A-9**



**K** Duplex Insulated  
**CHROMEGA®-ALOMEGA®**  
Duplex ANSI Type K



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

**MOST POPULAR  
MODELS HIGHLIGHTED!**

Insulation	AWG No.	Model Number	Price/1000'	SLE/1000' <sup>†††</sup>	Type Wire	Insulation		Max. Temp °C °F	Nominal Size mm (")	Wt. kg/300 m <sup>†</sup> (lb/1000')	
						Conductor	Overall				
Ceramic*	14	XC-K-14	\$3575	\$4115	Solid	Nextel Ceramic	Nextel Ceramic	1090	2000	3.6 x 5.0 (0.140 x 0.200)	18 (38)
	20	XC-K-20	2530	2910	Solid			980	1800	3.4 x 4.8 (0.135 x 0.190)	8 (16)
	20	XT-K-20	2420	2785	Solid			980	1800	2.7 x 3.9 (0.105 x 0.155)	7 (15)
	20	XL-K-20	2365	2725	Solid			980	1800	2.4 x 3.4 (0.095 x 0.135)	7 (14)
	24	XC-K-24	2420	2785	Solid			870	1600	2.9 x 4.4 (0.115 x 0.175)	6 (12)
	24	XT-K-24	2200	2530	Solid			870	1600	2.2 x 3.4 (0.088 x 0.132)	5 (11)
	24	XL-K-24	2145	2470	Solid			870	1600	2.0 x 3.0 (0.078 x 0.116)	5 (10)
Vitreous Silica*	20	XR-K-20	1870	2150	Solid	Refrasil	Refrasil	870	1600	2.9 x 4.6 (0.115 x 0.180)	6 (14)
Silica*	14	XS-K-14	2420	2785	Solid	Silica	Silica	1090	2000	3.6 x 5.0 (0.140 x 0.200)	16 (35)
	20	XS-K-20	1430	1645	Solid			980	1800	2.7 x 3.9 (0.105 x 0.155)	6 (12)
	24	XS-K-24	1295	1485	Solid			870	1600	2.2 x 3.4 (0.088 x 0.132)	5 (10)
High Temp. Glass**	20	HH-K-20	635	735	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	420	480	Solid			704	1300	1.4 x 2.3 (0.055 x 0.090)	3 (5)
Glass	20	GG-K-20	535	610	Solid	Glass Braid	Glass Braid	482	900	1.5 x 2.1 (0.060 x 0.095)	4 (9)
	20S	GG-K-20S	780	935	7 x 28			482	900	1.5 x 2.5 (0.060 x 0.100)	4 (9)
	24	GG-K-24	350	400	Solid			482	900	1.3 x 2.0 (0.050 x 0.080)	3 (5)
	24S	GG-K-24S	475	570	7 x 32			482	900	1.3 x 2.2 (0.050 x 0.085)	3 (5)
	26	GG-K-26	285	325	Solid			482	900	1.1 x 1.9 (0.045 x 0.075)	2 (4)
	28	GG-K-28	230	265	Solid			482	900	1.0 x 1.4 (0.040 x 0.055)	2 (3)
	30	GG-K-30	240	275	Solid			482	900	0.9 x 1.3 (0.037 x 0.050)	2 (3)
36	GG-K-36	320	355	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	895	975	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	1145	1300	7 x 28			482	900	2.3 x 3.2 (0.090 x 0.127)	7 (15)
	24	GG-K-24-SB	600	655	Solid			482	900	2.2 x 3.0 (0.085 x 0.117)	5 (11)
	24S	GG-K-24S-SB	725	820	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	1010	1150	Solid	Fused Polyimide Tape	Fused Polyimide Tape	316	600	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	20S	KK-K-20S	1270	1450	7 x 28			316	600	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	KK-K-24	750	850	Solid			316	600	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	KK-K-24S	930	1060	7 x 32			316	600	1.3 x 2.2 (0.050 x 0.085)	3 (6)
	30	KK-K-30	650	750	Solid			316	600	1.0 x 1.4 (0.040 x 0.055)	3 (5)
PFA Glass	30	TG-K-30	530	-	Solid	PFA	Glass Braid	260	500	0.9 x 1.2 (0.034 x 0.047)	1 (2)
	36	TG-K-36	590	-	Solid			260	500	0.7 x 1.0 (0.028 x 0.038)	1 (2)
	40	TG-K-40	650	-	Solid			260	500	0.7 x 0.9 (0.026 x 0.035)	1 (2)
Neoflon PFA (High Performance)	20	TT-K-20	645	750	Solid	PFA	PFA	260	500	1.7 x 3.0 (0.068 x 0.116)	5 (11)
	20	TT-K-20S	980	1175	7 x 28			260	500	1.9 x 3.2 (0.073 x 0.126)	5 (11)
	22	TT-K-22S	955	1145	7 x 30			260	500	1.7 x 3.4 (0.065 x 0.133)	4 (9)
	24	TT-K-24	445	510	Solid			260	500	1.4 x 2.4 (0.056 x 0.093)	3 (6)
	24	TT-K-24S	620	745	7 x 32			260	500	1.6 x 2.6 (0.063 x 0.102)	3 (6)
	30	TT-K-30 <sup>††</sup>	335	370	Solid			260	500	0.6 x 1.0 (0.024 x 0.040)	1 (2)
	36	TT-K-36 <sup>††</sup>	375	415	Solid			260	500	0.5 x 0.8 (0.019 x 0.030)	1 (2)
40	TT-K-40 <sup>††</sup>	500	550	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	1140	1305	Solid	PFA Polymer	PFA Polymer and Shielding	260	500	3.7 (0.15)	9 (20)
	20S	TT-K-20S-TWSH	1365	1640	7 x 28			260	500	3.8 (0.15)	9 (20)
	24	TT-K-24-TWSH	685	785	Solid			260	500	2.7 (0.11)	4 (9)
	24S	TT-K-24S-TWSH	820	980	7 x 32			260	500	2.9 (0.12)	4 (9)
Neoflon FEP	20	FF-K-20	635	735	Solid	FEP	FEP	200	392	1.7 x 3.0 (0.068 x 0.116)	5 (11)
	24	FF-K-24	420	485	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	905	1040	Solid	FEP Polymer	FEP Polymer and Shielding	200	392	3.7 (0.15)	9 (20)
	20S	FF-K-20S-TWSH	1090	1315	7 x 28			200	392	3.8 (0.15)	9 (20)
	24	FF-K-24-TWSH	515	590	Solid			200	392	2.7 (0.11)	4 (9)
	24S	FF-K-24S-TWSH	620	740	7 x 32			200	392	2.9 (0.12)	4 (9)
TFE Tape Polymer	20	TFE-K-20	620	695	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	955	1085	7 x 28			260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	TFE-K-24	420	470	Solid			260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	TFE-K-24S	570	650	7 x 32			260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
Polyvinyl	24	PR-K-24	275	320	Solid	Polyvinyl	(Rip Cord) <sup>***</sup> (Polyvinyl)	105	221	1.4 x 2.3 (0.050 x 0.086)	3 (5)
	24	PP-K-24S	355	425	7 x 32			105	221	2.0 x 3.4 (0.082 x 0.134)	3 (5)

<sup>†</sup> Weight of spool and wire rounded to the next highest kg (lb) (does not include packing material). <sup>††</sup> Overall color clear. <sup>†††</sup> 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, \$2910.**



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