

TFE and Kapton® Insulated Thermocouple Wire

TFE Insulated Thermocouple Wire



"SLE" Special Limits of Error Available

ANSI color code shown

Color-coded TFE tape applied to conductors and jacket. Superior abrasion, moisture, and chemical resistance.



MOST POPULAR MODELS HIGHLIGHTED!

Calibration ANSI Code	AWG No.	Model Number	Price/1000**	SLE/1000**	Type Wire	Insulation		Max Temp		Nominal Size mm (in)	Wt†/1000' kg (lb)
						Conductor	Overall	°C	°F		
J Iron - Constantan	20	TFE-J-20	\$450	\$510	Solid	Fused TFE Tape	Fused TFE Tape	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	20S	TFE-J-20S	570	650	7 x 28	Fused TFE Tape	Fused TFE Tape	260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	TFE-J-24	315	350	Solid	Fused TFE Tape	Fused TFE Tape	260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	TFE-J-24S	370	415	7 x 32	Fused TFE Tape	Fused TFE Tape	260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
K CHROMEGA® - ALOMEGA®	20	TFE-K-20	\$620	\$695	Solid	Fused TFE Tape	Fused TFE Tape	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	20S	TFE-K-20S	955	1085	7 x 28	Fused TFE Tape	Fused TFE Tape	260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	TFE-K-24	420	470	Solid	Fused TFE Tape	Fused TFE Tape	260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	TFE-K-24S	570	650	7 x 32	Fused TFE Tape	Fused TFE Tape	260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
T Copper - Constantan	20	TFE-T-20	\$450	\$510	Solid	Fused TFE Tape	Fused TFE Tape	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	20S	TFE-T-20S	570	650	7 x 28	Fused TFE Tape	Fused TFE Tape	260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	TFE-T-24	315	350	Solid	Fused TFE Tape	Fused TFE Tape	260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	TFE-T-24S	370	415	7 x 32	Fused TFE Tape	Fused TFE Tape	260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
E CHROMEGA® - Constantan	20	TFE-E-20	\$715	\$815	Solid	Fused TFE Tape	Fused TFE Tape	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	20S	TFE-E-20S	955	1085	7 x 28	Fused TFE Tape	Fused TFE Tape	260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	TFE-E-24	510	570	Solid	Fused TFE Tape	Fused TFE Tape	260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	TFE-E-24S	625	700	7 x 32	Fused TFE Tape	Fused TFE Tape	260	500	1.3 x 2.2 (0.050 x 0.085)	3(6)

† Weight of spool and wire rounded up to the next highest lb.; does not include packing material.

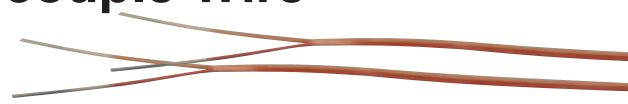
* Spool lengths 25', 50', 100', 200', 500' and 1000'. Other calibrations and lengths available; consult Sales for pricing.

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

Ordering Example: TFE-J-24-SLE-1000, 300 m (1000') of Type J Iron-CONSTANTAN special limits of error duplex insulated wire, \$350.

Kapton® Duplex Insulated Thermocouple Wire

Fused Kapton tape applied to conductors and jackets. Excellent moisture and abrasion resistance, high dielectric strength (7 kV/mil), retains much physical integrity after gamma radiation. FEP is used as adhesive binding agent [melts at approx. 260°C (500°F)]



Calibration Color Code††	AWG No.	Model Number	Price/1000**	SLE/1000**	Type Wire	Insulation		Max. Temp		Nominal Size mm (in)	Wt.†/1000' kg (lb)
						Conductor	Overall	°C	°F		
J Iron - Constantan	20	KK-J-20	\$870	\$990	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	20S	KK-J-20S	1110	1270	7 x 28	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	KK-J-24	660	755	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	KK-J-24S	825	945	7 x 32	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
	30	KK-J-30	650	750	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.0 x 1.4 (0.040 x 0.055)	3 (6)
K CHROMEGA® - ALOMEGA®	20	KK-K-20	\$1010	\$1150	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	1270	1450	7 x 28	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	KK-K-24	750	850	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	KK-K-24S	930	1060	7 x 32	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
	30	KK-K-30	650	750	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.0 x 1.4 (0.040 x 0.055)	3 (6)
T Copper - Constantan	20	KK-T-20	\$870	\$990	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	20S	KK-T-20S	1110	1270	7 x 28	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	KK-T-24	660	755	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	KK-T-24S	825	945	7 x 32	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
	30	KK-T-30	650	750	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.0 x 1.4 (0.040 x 0.055)	3 (6)
E CHROMEGA® - Constantan	20	KK-E-20	\$1155	\$1325	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	20S	KK-E-20S	1455	1665	7 x 28	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	KK-E-24	865	990	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
	24S	KK-E-24S	1070	1225	7 x 32	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
	30	KK-E-30	735	850	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.0 x 1.4 (0.040 x 0.055)	3 (6)

†† Note: Kapton® wire is neither ANSI nor IEC color-coded.

* Spool lengths 25', 50', 100', 200', 500' and 1000'. Other calibrations and lengths available; consult Sales for pricing.

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

Ordering Example: KK-K-20-SLE-1000, 300 m (1000') of Type K CHROMEGA®-ALOMEGA® special limits of error duplex insulated wire, \$1150.

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.

NewportUS can cover any insulated wire with metal overbraiding to protect against wear and abrasion. Overbraiding adds durability and electrical shielding for improved performance. See page H-47 for details.