

TFE and Kapton® Insulated Thermocouple Wire

TFE Insulated Thermocouple Wire

"SLE" Special Limits of Error Available

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

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



Calibration ANSI Code	AWG No.	Model Number	Type Wire	Insulation		Maximum Temperature		Nominal Size mm (inch)	Wt.†/1000' kg (lb)
				Conductor	Overall	°C	°F		
J Iron - Constantan	20	TFE-J-20	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	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	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	7 x 32	Fused TFE Tape	Fused TFE Tape	260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
K CHROMEKA® - ALOMEGA®	20	TFE-K-20	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	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	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	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	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	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	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	7 x 32	Fused TFE Tape	Fused TFE Tape	260	500	1.3 x 2.2 (0.050 x 0.085)	3 (6)
E CHROMEKA® - Constantan	20	TFE-E-20	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	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	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	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.

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 approximately 260°C (500°F)]



Calibration Color Code††	AWG No.	Model Number	Type Wire	Insulation		Maximum Temperature		Nominal Size mm (inch)	Wt.†/1000' kg (lb)
				Conductor	Overall	°C	°F		
J Iron - Constantan	20	KK-J-20	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	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	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	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	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.0 x 1.4 (0.040 x 0.055)	3 (6)
K CHROMEKA® - ALOMEGA®	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	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.5 x 2.7 (0.060 x 0.105)	5 (11)
	24	KK-K-24	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	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	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	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	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	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	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	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.0 x 1.4 (0.040 x 0.055)	3 (6)
E CHROMEKA® - Constantan	20	KK-E-20	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	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	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	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	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 CHROMEKA®-ALOMEGA® special limits of error duplex insulated wire.

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.

NEWPORT can cover any insulated wire with metal overbraiding to protect against wear and abrasion. Overbraiding adds durability and electrical shielding for improved performance. Consult sales for details.