



Thermocouple Wire Selector Chart

Type J Iron/Constantan

Color code: Positive wire = White, Negative wire = Red

Order Code	Wire Gauge	Nominal Size	Construction	Ohms Per Foot @ 68°F	Lbs/1000ft Approximate	Insulation		Max. Temperature	
						Each Conductor	Overall	Deg F	Deg C
J-G/G-20	20	.060 x .097	Solid	0.357	8	Fiberglass Braid	Fiberglass Braid	900	482
J-G/G-20F	20	.075 x .137	Strand	0.317	9	Fiberglass Braid	Fiberglass Braid	900	482
J-TE/TE-20	20	.072 x .124	Solid	0.357	12	FEP Teflon	FEP Teflon	400	204
J-TE/TF-20	20	.060 x .104	Solid	0.357	10	TFE Teflon Tape	TFE Teflon Tape	500	260
J-G/G-24	24	.048 x .078	Solid	0.877	4	Fiberglass Braid	Fiberglass Braid	900	482
J-TE/TE-24	24	.056 x .092	Solid	0.877	6	FEP Teflon	FEP Teflon	400	204
J-TE/TF-24	24	.048 x .080	Solid	0.877	6	TFE Teflon Tape	TFE Teflon Tape	500	260
J-P-24	24	.040 x .080	Solid	0.887	3	PVC	None (Rip Cord)	221	105
J-G/G-30	30	.033 x .050	Solid	3.520	1	Fiberglass Braid	Fiberglass Braid	900	482

Type K Chromel / Alumel

Color code: Positive wire = Yellow, Negative wire = Red

Order Code	Wire Gauge	Nominal Size	Construction	Ohms Per Foot @ 68°F	Lbs/1000ft Approximate	Insulation		Max. Temperature	
						Each Conductor	Overall	Deg F	Deg C
K-G/G-20	20	.060 x .097	Solid	0.590	8	Fiberglass Braid	Fiberglass Braid	900	482
K-G/G-20F	20	.066 x .118	Strand	0.538	11	Fiberglass Braid	Fiberglass Braid	900	482
K-HG/HG-20	20	.080 x .136	Solid	0.590	16	HT Fiberglass	HT Fiberglass	1300	704
K-TE/TE-20	20	.072 x .104	Solid	0.590	12	FEP Teflon	FEP Teflon	400	204
K-TE/TF-20	20	.060 x .104	Solid	0.590	10	TFE Teflon Tape	TFE Teflon Tape	500	260
K-K/K-20	20	.052 x .096	Solid	0.590	9	Kapton	Kapton	500	260
K-R/R-20	20	.092 x .15	Solid	0.590	10	Refrasil	Refrasil	1600	871
K-C/C-20	20	.092 x .154	Solid	0.590	10	Ceramic Fiber	Ceramic Fiber	2200	1204
K-G/C-24	24	.047 x .081	Solid	1.490	4	Fiberglass Braid	Fiberglass Braid	900	482
K-TE/TE-24	24	.072 x .124	Solid	1.490	11	FEP Teflon	FEP Teflon	400	204
K-TF/TF-24	24	.048 x .080	Solid	1.490	6	TFE Teflon Tape	TFE Teflon tape	500	260
K-G/G-30	30	.033 x .050	Solid	5.980	1	Fiberglass Braid	Fiberglass Braid	900	482
K-K/K-30	30	.030 x .052	Solid	5.980	2	Kapton	Kapton	500	260

Type T Copper / Constantan

Color code: Positive wire = Blue, Negative wire = Red

Order Code	Wire Gauge	Nominal Size	Construction	Ohms Per Foot @ 68°F	Lbs/1000ft Approximate	Insulation		Max. Temperature	
						Each Conductor	Overall	Deg F	Deg C
T-G/G-20	20	.060 x .097	Solid	0.298	8	Fiberglass Braid	Fiberglass Braid	900	482
T-TE/TE-20	20	.068 x .116	Solid	0.298	12	FEP Teflon	FEP Teflon	400	204
T-TF/TF-20	20	.060 x .104	Solid	0.298	10	TFE Teflon Tape	TFE Teflon Tape	500	260
T-G/G-24	24	.048 x .178	Solid	0.753	4	Fiberglass Braid	Fiberglass Braid	900	482
T-TE/TE-24	24	.056 x .092	Solid	0.753	6	FEP Teflon	FEP Teflon	400	204
T-TE/TF-24	24	.048 x .080	Solid	0.753	6	TFE Teflon Tape	TFE Teflon Tape	500	260
T-P-24	24	.040 x .080	Solid	0.753	3	PVC	None (Rip Cord)	221	105

Note: Technical information furnished is based on laboratory findings and is believed to be correct. No warranties of any kind are made except that the materials supplied are of standard quality. All risk and liabilities arising from handling, storage and use of product, as well as compliance with applicable legal restrictions rest with the buyer. Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention or process without a license.