



Thermocouple Wire Selector Chart

0898-1104

THERMOCOUPLE WIRE

| 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-TF/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/G-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-TF/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: All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No warranties of any kind are made except that materials supplied are TMI standard quality. All risk and liability arising from handling, storage and use of TMI products, as well as compliance with applicable legal restriction, rest with the buyer.