

Thermocouple Wire

Duplex Insulated



"SLE" Special Limits of Error Available



K Duplex Insulated
CHROME™-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

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

| Insulation | AWG No. | Model Number | Type Wire | Insulation | | Max. Temp | | Nominal Size mm (inch) | Wt.† kg/300 m (lb/1000') |
|---|---------|----------------------|-----------|----------------------|----------------------------------|-----------|------|---------------------------|-----------------------------|
| | | | | Conductor | Overall | °C | °F | | |
| Ceramic* | 14 | XC-K-14 | Solid | None | None | 1090 | 2000 | 3.6 x 5.0 (0.140 x 0.200) | 18 (38) |
| | 20 | XC-K-20 | Solid | | | 980 | 1800 | 3.4 x 4.8 (0.135 x 0.190) | 8 (16) |
| | 20 | XT-K-20 | Solid | | | 980 | 1800 | 2.7 x 3.9 (0.105 x 0.155) | 7 (15) |
| | 24 | XC-K-24 | Solid | | | 870 | 1600 | 2.9 x 4.4 (0.115 x 0.175) | 6 (12) |
| | 24 | XT-K-24 | Solid | | | 870 | 1600 | 2.2 x 3.4 (0.088 x 0.132) | 5 (11) |
| Vitreous Silica* | 20 | XR-K-20 | Solid | Refrasil | Refrasil | 870 | 1600 | 2.9 x 4.6 (0.115 x 0.180) | 6 (14) |
| Silica* | 14 | XS-K-14 | Solid | Silica | Silica | 1090 | 2000 | 3.6 x 5.0 (0.140 x 0.200) | 16 (35) |
| | 20 | XS-K-20 | Solid | | | 980 | 1800 | 2.7 x 3.9 (0.105 x 0.155) | 6 (12) |
| | 24 | XS-K-24 | Solid | | | 870 | 1600 | 2.2 x 3.4 (0.088 x 0.132) | 5 (10) |
| High Temp. Glass** | 20 | HH-K-20 | 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 | Solid | | | 704 | 1300 | 1.4 x 2.3 (0.055 x 0.090) | 3 (5) |
| Glass | 20 | GG-K-20 | Solid | Glass Braid | Glass Braid | 482 | 900 | 1.5 x 2.1 (0.060 x 0.095) | 4 (9) |
| | 20S | GG-K-20S | 7 x 28 | | | 482 | 900 | 1.5 x 2.5 (0.060 x 0.100) | 4 (9) |
| | 24 | GG-K-24 | Solid | | | 482 | 900 | 1.3 x 2.0 (0.050 x 0.080) | 3 (5) |
| | 24S | GG-K-24S | 7 x 32 | | | 482 | 900 | 1.3 x 2.2 (0.050 x 0.085) | 3 (5) |
| | 26 | GG-K-26 | Solid | | | 482 | 900 | 1.1 x 1.9 (0.045 x 0.075) | 2 (4) |
| | 28 | GG-K-28 | Solid | | | 482 | 900 | 1.0 x 1.4 (0.040 x 0.055) | 2 (3) |
| | 30 | GG-K-30 | Solid | | | 482 | 900 | 0.9 x 1.3 (0.037 x 0.050) | 2 (3) |
| | 36 | GG-K-36 | 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 | 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 | 7 x 28 | | | 482 | 900 | 2.3 x 3.2 (0.090 x 0.127) | 7 (15) |
| | 24 | GG-K-24-SB | Solid | | | 482 | 900 | 2.2 x 3.0 (0.085 x 0.117) | 5 (11) |
| | 24S | GG-K-24S-SB | 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 | 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 | | | 260 | 500 | 1.5 x 2.7 (0.060 x 0.105) | 5 (11) |
| | 24 | KK-K-24 | Solid | | | 260 | 500 | 1.3 x 1.9 (0.050 x 0.075) | 3 (6) |
| | 24S | KK-K-24S | 7 x 32 | | | 260 | 500 | 1.3 x 2.2 (0.050 x 0.085) | 3 (6) |
| | 30 | KK-K-30 | Solid | | | 260 | 500 | 0.6 x 1.1 (0.026 x 0.044) | 3 (5) |
| PFA Glass | 30 | TG-K-30 | Solid | PFA | Glass Braid | 260 | 500 | 0.9 x 1.2 (0.034 x 0.047) | 1 (2) |
| | 36 | TG-K-36 | Solid | | | 260 | 500 | 0.7 x 1.0 (0.028 x 0.038) | 1 (2) |
| | 40 | TG-K-40 | Solid | | | 260 | 500 | 0.7 x 0.9 (0.026 x 0.035) | 1 (2) |
| Neoflon PFA (High Performance) | 20 | TT-K-20 | Solid | PFA | PFA | 260 | 500 | 1.7 x 3.0 (0.068 x 0.116) | 5 (11) |
| | 20 | TT-K-20S | 7 x 28 | | | 260 | 500 | 1.9 x 3.2 (0.073 x 0.126) | 5 (11) |
| | 22 | TT-K-22S | 7 x 30 | | | 260 | 500 | 1.7 x 3.4 (0.065 x 0.133) | 4 (9) |
| | 24 | TT-K-24 | Solid | | | 260 | 500 | 1.4 x 2.4 (0.056 x 0.093) | 3 (6) |
| | 24 | TT-K-24S | 7 x 32 | | | 260 | 500 | 1.6 x 2.6 (0.063 x 0.102) | 3 (6) |
| | 30 | TT-K-30†† | Solid | | | 260 | 500 | 0.6 x 1.0 (0.024 x 0.040) | 1 (2) |
| | 36 | TT-K-36†† | Solid | | | 260 | 500 | 0.5 x 0.8 (0.019 x 0.030) | 1 (2) |
| | 40 | TT-K-40†† | 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 | Solid | PFA Polymer | PFA Polymer and Shielding | 260 | 500 | 3.7 (0.15) | 9 (20) |
| | 20S | TT-K-20S-TWSH | 7 x 28 | | | 260 | 500 | 3.8 (0.15) | 9 (20) |
| | 24 | TT-K-24-TWSH | Solid | | | 260 | 500 | 2.7 (0.11) | 4 (9) |
| | 24S | TT-K-24S-TWSH | 7 x 32 | | | 260 | 500 | 2.9 (0.12) | 4 (9) |
| Neoflon FEP | 20 | FF-K-20 | Solid | FEP | FEP | 200 | 392 | 1.7 x 3.0 (0.068 x 0.116) | 5 (11) |
| | 24 | FF-K-24 | 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 | Solid | FEP Polymer | FEP Polymer and Shielding | 200 | 392 | 3.7 (0.15) | 9 (20) |
| | 20S | FF-K-20S-TWSH | 7 x 28 | | | 200 | 392 | 3.8 (0.15) | 9 (20) |
| | 24 | FF-K-24-TWSH | Solid | | | 200 | 392 | 2.7 (0.11) | 4 (9) |
| | 24S | FF-K-24S-TWSH | 7 x 32 | | | 200 | 392 | 2.9 (0.12) | 4 (9) |
| TFE Tape Polymer | 20 | TFE-K-20 | 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 | 7 x 28 | | | 260 | 500 | 1.5 x 2.7 (0.060 x 0.105) | 5 (11) |
| | 24 | TFE-K-24 | Solid | | | 260 | 500 | 1.3 x 1.9 (0.050 x 0.075) | 3 (6) |
| | 24S | TFE-K-24S | 7 x 32 | | | 260 | 500 | 1.3 x 2.2 (0.050 x 0.085) | 3 (6) |
| Polyvinyl | 24 | PR-K-24 | Solid | Polyvinyl | (Rip Cord)*** (Polyvinyl) | 105 | 221 | 1.4 x 2.3 (0.050 x 0.086) | 3 (5) |
| | 24 | PP-K-24S | 7 x 32 | | | 105 | 221 | 2.0 x 3.4 (0.082 x 0.134) | 3 (5) |

† Weight of spool and wire rounded to the next highest kg (lb) (does not include packing material). †† Overall color clear.
††† 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 overlap.
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.