

Thermocouple Wire

Duplex Insulated

**"SLE" Special
Limits of Error
Available**

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K Duplex Insulated
CHROMEGA®-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

| 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 | Nextel Ceramic | Nextel Ceramic | 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) |
| | 20 | XL-K-20 | Solid | | | 980 | 1800 | 2.4 x 3.4 (0.095 x 0.135) | 7 (14) |
| | 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) |
| | 24 | XL-K-24 | Solid | | | 870 | 1600 | 2.0 x 3.0 (0.078 x 0.116) | 5 (10) |
| 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 | 1.0 x 1.4 (0.040 x 0.055) | 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 overwrap.
 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.

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