



ANSI color code shown **To order IEC color code see pg. H-9**

J Duplex Insulated Iron-Constantan Duplex ANSI Type J

ALL MODELS AVAILABLE FOR FAST DELIVERY!

ANSI Color Code: Positive Wire, White; Negative Wire, Red; Overall, Brown
OMEGA Engineering does not use reprocessed Teflon® or PVC in manufacturing thermocouple wire

| Insulation ¹ | AWG No. | Model Number | Price/1000' | SLE/1000' ^{†††} | Type Wire | Insulation | | Max. Temp. | | Nominal Size mm (Inches) | Wt. [†] kg/300m (lb/1000') |
|--|-----------------------|-----------------------|-------------|--------------------------|-----------|------------------|------------------|------------|---------------------------|---------------------------|-------------------------------------|
| | | | | | | Conductor | Overall | °C | °F | | |
| Ceramic* | 14 | XC-J-14 | \$3000 | \$3450 | Solid | Nextel Ceramic | Nextel Ceramic | 590 | 1100 | 3.6 x 5.0 (0.140 x 0.200) | 18 (38) |
| | 20 | XC-J-20 | 2250 | 2590 | Solid | Nextel Ceramic | Nextel Ceramic | 480 | 900 | 3.4 x 4.8 (0.135 x 0.190) | 8 (16) |
| | 20 | XT-J-20 | 2150 | 2475 | Solid | Nextel Ceramic | Nextel Ceramic | 480 | 900 | 2.7 x 3.9 (0.105 x 0.155) | 7 (15) |
| | 20 | XL-J-20 | 2100 | 2415 | Solid | Nextel Ceramic | Nextel Ceramic | 480 | 900 | 2.4 x 3.4 (0.095 x 0.135) | 7 (14) |
| | 24 | XC-J-24 | 2150 | 2475 | Solid | Nextel Ceramic | Nextel Ceramic | 370 | 700 | 2.9 x 4.4 (0.115 x 0.175) | 6 (12) |
| | 24 | XT-J-24 | 2050 | 2360 | Solid | Nextel Ceramic | Nextel Ceramic | 370 | 700 | 2.2 x 3.4 (0.088 x 0.132) | 5 (11) |
| | 24 | XL-J-24 | 2000 | 2300 | Solid | Nextel Ceramic | Nextel Ceramic | 370 | 700 | 2.0 x 3.0 (0.078 x 0.116) | 5 (10) |
| Silica* | 14 | XS-J-14 | 1800 | 2070 | Solid | Silica | Silica | 590 | 1100 | 3.6 x 5.0 (0.140 x 0.200) | 16 (35) |
| | 20 | XS-J-20 | 1250 | 1440 | Solid | Silica | Silica | 480 | 900 | 2.7 x 3.9 (0.105 x 0.155) | 6 (12) |
| | 24 | XS-J-24 | 1150 | 1325 | Solid | Silica | Silica | 370 | 700 | 2.2 x 3.4 (0.088 x 0.132) | 5 (10) |
| High Temp. Glass** | 20 | HH-J-20 | 370 | 430 | Solid | High Temp. Glass | High Temp. Glass | 480 | 900 | 1.5 x 2.7 (0.060 x 0.105) | 4 (9) |
| | 24 | HH-J-24 | 290 | 330 | Solid | High Temp. Glass | High Temp. Glass | 370 | 700 | 1.1 x 2.2 (0.055 x 0.090) | 3 (5) |
| Glass | 14 | GG-J-14 | 775 | 890 | Solid | Glass Braid | Glass Braid | 480 | 900 | 1.5 x 2.4 (0.060 x 0.095) | 4 (9) |
| | 20 | GG-J-20 | 310 | 355 | Solid | Glass Braid | Glass Braid | 480 | 900 | 1.5 x 2.5 (0.060 x 0.100) | 4 (9) |
| | 20 | GG-J-20S | 425 | 510 | 7 x 28 | Glass Braid | Glass Braid | 480 | 900 | 1.3 x 2.0 (0.050 x 0.080) | 3 (5) |
| | 24 | GG-J-24 | 240 | 275 | Solid | Glass Braid | Glass Braid | 370 | 700 | 1.3 x 2.2 (0.050 x 0.085) | 3 (5) |
| | 24 | GG-J-24S | 325 | 390 | 7 x 32 | Glass Braid | Glass Braid | 370 | 700 | 1.1 x 2.0 (0.045 x 0.075) | 2 (4) |
| | 28 | GG-J-28 | 225 | 259 | Solid | Glass Wrap | Glass Braid | 370 | 700 | 1.0 x 1.4 (0.040 x 0.055) | 2 (3) |
| | 30 | GG-J-30 | 230 | 265 | Solid | Glass Wrap | Glass Braid | 320 | 600 | 0.9 x 1.3 (0.037 x 0.050) | 2 (3) |
| | 36 | GG-J-36 | 310 | 360 | Solid | Glass Wrap | Glass Braid | 320 | 600 | 0.8 x 1.1 (0.033 x 0.045) | 1 (2) |
| Teflon® and Glass | 30 | TG-J-30 | 480 | - | Solid | PFA | Glass Braid | 260 | 500 | 0.9 x 1.2 (0.034 x 0.047) | 1 (2) |
| | 36 | TG-J-36 | 550 | - | Solid | PFA | Glass Braid | 260 | 500 | 0.7 x 1.0 (0.028 x 0.038) | 1 (2) |
| | 40 | TG-J-40 | 620 | - | Solid | PFA | Glass Braid | 260 | 500 | 0.7 x 0.9 (0.026 x 0.035) | 1 (2) |
| Teflon® Neoflon PFA (High Performance) | 20 | TT-J-20 | 390 | 450 | Solid | PFA | PFA | 260 | 500 | 1.7 x 3.0 (0.068 x 0.116) | 5 (11) |
| | 20 | TT-J-20S | 515 | 620 | 7 x 28 | PFA | PFA | 260 | 500 | 1.9 x 3.2 (0.073 x 0.126) | 5 (11) |
| | 22 | TT-J-22S | 510 | 610 | 7 x 30 | PFA | PFA | 260 | 500 | 1.7 x 3.4 (0.065 x 0.133) | 4 (9) |
| | 24 | TT-J-24 | 335 | 370 | Solid | PFA | PFA | 260 | 500 | 1.4 x 2.4 (0.056 x 0.093) | 3 (6) |
| | 24 | TT-J-24S | 435 | 520 | 7 x 32 | PFA | PFA | 260 | 500 | 1.6 x 2.6 (0.063 x 0.102) | 3 (6) |
| | 30 | TT-J-30 ^{††} | 350 | 385 | Solid | PFA | PFA | 260 | 500 | 0.6 x 1.0 (0.024 x 0.040) | 1 (2) |
| | 36 | TT-J-36 ^{††} | 400 | 440 | Solid | PFA | PFA | 260 | 500 | 0.5 x 0.8 (0.019 x 0.030) | 1 (2) |
| 40 | TT-J-40 ^{††} | 530 | 580 | Solid | PFA | PFA | 260 | 500 | 0.4 x 0.7 (0.017 x 0.026) | 1 (2) | |
| Teflon® Neoflon FEP | 20 | FF-J-20 | 375 | 430 | Solid | FEP | FEP | 200 | 392 | 1.7 x 3.0 (0.068 x 0.116) | 5 (11) |
| | 24 | FF-J-24 | 280 | 320 | Solid | FEP | FEP | 200 | 392 | 1.7 x 3.0 (0.056 x 0.092) | 3 (5) |
| Polyvinyl | 24 | PR-J-24 | 130 | 150 | Solid | Polyvinyl | (Rip Cord)*** | 105 | 221 | 1.3 x 2.2 (0.050 x 0.085) | 3 (5) |
| | 24 | PP-J-24S | 235 | 280 | 7 x 32 | Polyvinyl | Polyvinyl | 105 | 221 | 2.0 x 3.4 (0.082 x 0.134) | 3 (5) |

¹ Additional Type J insulated wires are available. See Fused Tape Insulated TFE-J and KK-J Series.

*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 overjacket.

[†]Weight of spool and wire rounded to the next highest lb. (does not include packing material).

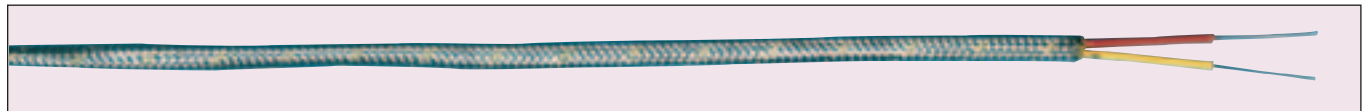
^{††}Overall color clear

^{†††}To order special limits of error wire, add "-SLE" to model number before spool length

Ordering Example: GG-J-24-SLE-1000, 1000' (300 m) of Type J duplex insulated special limits of error thermocouple wire, \$275.

| Ceramic Weave Notes | |
|---------------------|---|
| XC: | standard ceramic insulation with maximum insulation density |
| XT: | more tightly woven with reduced insulation density |
| XL: | loosely woven with the minimum insulation density |

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OMEGA can cover any insulated wire in our handbook with metal overbraiding to protect against wear and abrasion. Overbraiding adds durability and electrical shielding for improved performance. Please see page H-42 for details.



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