

# Thermocouple Wire

## Duplex Insulated

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



**OMEGALLOY®**  
**OMEGA-P®-OMEGA-N®**  
**Nicrosil-Nisil**  
**Duplex ANSI Type N**

ANSI Color Code: Positive Wire, Orange; Negative Wire, Red; Overall, Brown

| Duplex Insulated Wire |         |              |           |                 |                 |           |      |                           |                          |
|-----------------------|---------|--------------|-----------|-----------------|-----------------|-----------|------|---------------------------|--------------------------|
| Insulation            | AWG No. | Model Number | Type Wire | Insulation      |                 | Max. Temp |      | Nominal Size mm           | Wt.† kg/300 m (lb/1000') |
|                       |         |              |           | Conductor       | Overall         | °C        | °F   |                           |                          |
| Ceramic*              | 14      | XC-N-14      | Solid     | Nextel Ceramic  | Nextel Ceramic  | 1090      | 2000 | 3.6 x 5.0 (0.140 x 0.200) | 18 (38)                  |
|                       | 20      | XC-N-20      | Solid     |                 |                 | 980       | 1800 | 3.4 x 4.8 (0.135 x 0.190) | 8 (16)                   |
|                       | 20      | XT-N-20      | Solid     |                 |                 | 980       | 1800 | 2.7 x 3.9 (0.105 x 0.155) | 7 (15)                   |
|                       | 20      | XL-N-20      | Solid     |                 |                 | 980       | 1800 | 2.4 x 3.4 (0.095 x 0.135) | 7 (14)                   |
|                       | 24      | XC-N-24      | Solid     |                 |                 | 980       | 1800 | 2.9 x 4.4 (0.115 x 0.175) | 6 (12)                   |
|                       | 24      | XT-N-24      | Solid     |                 |                 | 980       | 1800 | 2.2 x 3.4 (0.088 x 0.132) | 5 (11)                   |
| Silica*               | 14      | XS-N-14      | Solid     | Silica          | Silica          | 1090      | 2000 | 3.6 x 5.0 (0.140 x 0.200) | 16 (35)                  |
|                       | 20      | XS-N-20      | Solid     |                 |                 | 980       | 1800 | 2.7 x 3.9 (0.105 x 0.155) | 6 (12)                   |
|                       | 24      | XS-N-24      | Solid     |                 |                 | 980       | 1800 | 2.2 x 3.4 (0.088 x 0.132) | 5 (10)                   |
| High Temp. Glass**    | 20      | HH-N-20      | Solid     | High Temp Glass | High Temp Glass | 704       | 1300 | 1.5 x 2.7 (0.060 x 0.105) | 4 (9)                    |
|                       | 24      | HH-N-24      | Solid     |                 |                 | 704       | 1300 | 1.4 x 2.3 (0.055 x 0.090) | 3 (5)                    |
| Glass                 | 20      | GG-N-20      | Solid     | Glass Braid     | Glass Braid     | 482       | 900  | 1.5 x 2.1 (0.060 x 0.095) | 4 (9)                    |
|                       | 20      | GG-N-20S     | 7 x 28    | Glass Braid     |                 | 482       | 900  | 1.5 x 2.5 (0.060 x 0.100) | 4 (9)                    |
|                       | 24      | GG-N-24      | Solid     | Glass Braid     |                 | 482       | 900  | 1.3 x 2.0 (0.050 x 0.080) | 3 (5)                    |
|                       | 24      | GG-N-24S     | 7 x 32    | Glass Braid     |                 | 482       | 900  | 1.3 x 2.2 (0.050 x 0.085) | 3 (5)                    |
|                       | 30      | GG-N-30      | Solid     | Glass Wrap      |                 | 482       | 900  | 0.9 x 1.3 (0.037 x 0.050) | 2 (3)                    |
| PFA Glass             | 30      | TG-N-30      | Solid     | PFA             | Glass Braid     | 260       | 500  | 0.9 x 1.2 (0.034 x 0.047) | 1 (2)                    |
| PFA Neoflon           | 20      | TT-N-20      | Solid     | PFA             | PFA             | 260       | 500  | 1.7 x 3.0 (0.068 x 0.116) | 5 (11)                   |
|                       | 20      | TT-N-20S     | 7 x 28    |                 |                 | 260       | 500  | 1.9 x 3.2 (0.073 x 0.126) | 5 (11)                   |
|                       | 24      | TT-N-24      | Solid     |                 |                 | 260       | 500  | 1.4 x 2.4 (0.056 x 0.093) | 3 (6)                    |
|                       | 24      | TT-N-24S     | 7 x 24    |                 |                 | 260       | 500  | 1.6 x 2.6 (0.063 x 0.102) | 3 (6)                    |
|                       | 30      | TT-N-30††    | Solid     |                 |                 | 260       | 500  | 0.6 x 1.0 (0.022 x 0.038) | 1 (2)                    |

\* Has color tracers on jacket and conductors. \*\* HH Wire has trace thread in positive leg, negative leg is red, overall has trace thread.

† Weight of spool and wire rounded to the next highest kg (lb), does not include packaging material.

†† Overall color clear.

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

Ordering Examples: GG-N-24-SLE-1000, 1000' (300 m) of Type N duplex insulated special limits of error thermocouple wire.

TT-N-20-1000, 1000' (300 m) of Type N duplex insulated thermocouple wire.

| Fine Diameter Bare Wire |                     | OMEGALLOY®   |
|-------------------------|---------------------|--------------|
| Material                | Wire Dia. mm (Inch) | Model Number |
| OMEGA-P®<br>Nicrosil    | 0.076 (0.003)       | SPOP-003-50  |
|                         | 0.13 (0.005)        | SPOP-005-50  |
|                         | 0.25 (0.010)        | SPOP-010-50  |
|                         | 0.50 (0.020)        | SPOP-020-50  |
| OMEGA-N®<br>Nisil       | 0.076 (0.003)       | SPON-003-50  |
|                         | 0.13 (0.005)        | SPON-005-50  |
|                         | 0.25 (0.010)        | SPON-010-50  |
|                         | 0.50 (0.020)        | SPON-020-50  |
|                         | 0.81 (0.032)        | SPON-032-50  |

| Spool Pricing Guidelines  |                             |
|---|-----------------------------|
| Multiply 300 m or 1000' spool price by multiplier and round to nearest dollar or Consult Sales. |                             |
| 7.5 m or 25'  | = Price from Chart x 0.0625 |
| 15 m or 50'   | = Price from Chart x 0.1    |
| 30 m or 100'  | = Price from Chart x 0.175  |
| 60 m or 200'  | = Price from Chart x 0.3    |
| 150 m or 500'   | = Price from Chart x 0.5    |
| 300 m or 1000'  | = Price from Chart x 1.0    |

**For Longer Lengths Consult Sales for Price and Delivery!**

**Note:** Published prices are based on market value at time of printing and are subject to change due to Nickel surcharges, Chromium and precious-metal market fluctuations.

**Available!**  
 OMEGA will overbraid any thermocouple wire with Inconel® 600, 304 SS or tinned copper overbraiding. Both Inconel 600 and SS add durability and abrasion protection.