

Thermocouple Wire

Duplex Extension Grade



ANSI color code shown To order IEC color code visit omega.com

JX Extension Grade Iron/Constantan Duplex ANSI Type JX



ANSI Color Code: Positive Wire, White; Negative Wire, Red; Overall, Black

To Order visit omega.com/exgg_jx_wire for Pricing and Details

| Insulation | AWG No. | Model Number | Type Wire | Insulation | | Max Temp* | | Nominal Size mm (inch) | Wt†. kg/300 m (lb/1000') |
|------------|---------|--------------|-----------|-------------|-------------|-----------|-----|---------------------------|--------------------------|
| | | | | Conductor | Overall | °C | °F | | |
| Glass | 16 | EXGG-J-16 | Solid | Glass braid | Glass braid | 200 | 392 | 2.2 x 3.3 (0.085 x 0.130) | 9 (18) |
| PFA | 16 | EXTT-J-16 | Solid | PFA | PFA | 200 | 392 | 2.2 x 3.9 (0.086 x 0.152) | 8 (16) |
| Neoflon | 20 | EXTT-J-20 | Solid | PFA | PFA | 200 | 392 | 1.7 x 2.9 (0.068 x 0.116) | 4 (9) |
| PFA | 24 | EXTT-J-24 | Solid | PFA | PFA | 200 | 392 | 1.4 x 2.3 (0.056 x 0.092) | 3 (8) |
| Polyvinyl | 14 | EXPP-J-14 | Solid | Polyvinyl | Polyvinyl | 105 | 221 | 3.4 x 7.3 (0.134 x 0.288) | 13 (29) |
| | 16 | EXPP-J-16 | Solid | Polyvinyl | Polyvinyl | 105 | 221 | 3.1 x 5.3 (0.123 x 0.207) | 10 (22) |
| | 16 | EXPP-J-16S | 7 x 24 | Polyvinyl | Polyvinyl | 105 | 221 | 5.5 x 5.7 (0.139 x 0.226) | 10 (22) |
| | 20 | EXPP-J-20 | Solid | Polyvinyl | Polyvinyl | 105 | 221 | 2.4 x 3.8 (0.095 x 0.151) | 6 (12) |
| | 20 | EXPP-J-20S | 7 X 28 | Polyvinyl | Polyvinyl | 105 | 221 | 3.1 x 4.4 (0.123 x 0.175) | 6 (12) |
| | 24 | EXPP-J-24S | 7 x 32 | Polyvinyl | Polyvinyl | 105 | 221 | 2.1 x 3.4 (0.082 x .0134) | 4 (9) |
| PFA | 16 | EXFF-J-16 | Solid | FEP | FEP | 200 | 392 | 2.2 x 3.9 (0.086 x 0.152) | 8 (16) |
| Neoflon | 20 | EXFF-J-20 | Solid | FEP | FEP | 200 | 392 | 1.7 x 2.9 (0.068 x 0.116) | 4 (9) |
| FEP | 24 | EXFF-J-24 | Solid | FEP | FEP | 200 | 392 | 1.4 x 2.3 (0.056 x 0.092) | 3 (6) |

* Maximum temperature is for extension-grade wire or insulation, whichever is lower.
 † Weight of spool and wire rounded to the next highest kg/lb (does not include packing material).
 †† To order special limits of error wire, add “-SLE” to model number before spool length.
Ordering Example: EXTT-J-20-25, 25' spool of extension-grade thermocouple wire, Type J, 20 gage, PFA over PFA insulation.

TX Extension Grade Copper/Constantan Duplex ANSI Type TX



ANSI Color Code: Positive Wire, Blue; Negative Wire, Red; Overall, Blue

To Order visit omega.com/exgg_jx_wire for Pricing and Details

| Insulation | AWG No. | Model Number | Type Wire | Insulation | | Max Temp* | | Nominal Size mm (inch) | Wt†. kg/300 m (lb/1000') |
|------------|---------|--------------|-----------|------------|-----------|-----------|-----|---------------------------|--------------------------|
| | | | | Conductor | Overall | °C | °F | | |
| PFA | 16 | EXTT-T-16 | Solid | PFA | PFA | 100 | 212 | 2.2 x 3.9 (0.086 x 0.152) | 8 (16) |
| Neoflon | 20 | EXTT-T-20 | Solid | PFA | PFA | 100 | 212 | 1.7 x 2.9 (0.068 x 0.116) | 4 (9) |
| PFA | 24 | EXTT-T-24 | Solid | PFA | PFA | 100 | 212 | 1.4 x 2.3 (0.056 x 0.092) | 3 (6) |
| Polyvinyl | 14 | EXPP-T-14 | Solid | Polyvinyl | Polyvinyl | 100 | 212 | 3.4 x 7.3 (0.134 x 0.288) | 13 (29) |
| | 16 | EXPP-T-16 | Solid | Polyvinyl | Polyvinyl | 100 | 212 | 3.1 x 5.3 (0.123 x 0.207) | 10 (22) |
| | 20 | EXPP-T-20 | Solid | Polyvinyl | Polyvinyl | 100 | 212 | 2.4 x 3.8 (0.095 x 0.151) | 6 (12) |
| | 20 | EXPP-T-20S | 7 x 28 | Polyvinyl | Polyvinyl | 100 | 212 | 3.1 x 4.4 (0.123 x 0.075) | 6 (12) |
| | 24 | EXPP-T-24 | Solid | Polyvinyl | Polyvinyl | 100 | 212 | 2.1 x 3.4 (0.082 x .0134) | 2 (4) |
| | 24 | EXPP-T-24S | 7 x 32 | Polyvinyl | Polyvinyl | 100 | 212 | 2.1 x 3.4 (0.082 x .0134) | 4 (9) |
| PFA | 16 | EXFF-T-16 | Solid | FEP | FEP | 100 | 212 | 2.2 x 3.9 (0.086 x 0.152) | 8 (16) |
| Neoflon | 20 | EXFF-T-20 | Solid | FEP | FEP | 100 | 212 | 1.7 x 1.2 (0.068 x 0.116) | 4 (9) |
| FEP | 24 | EXFF-T-24 | Solid | FEP | FEP | 100 | 212 | 1.4 x 2.3 (0.056 x 0.092) | 3 (6) |

* Maximum temperature is for extension-grade wire or insulation, whichever is lower.
 † Weight of spool and wire, rounded to next highest kg/lb (does not include packing material).
 †† To order special limits of error wire, add “-SLE” to model number before spool length.
Ordering Example: EXTT-T-20-50, 50' spool of extension-grade thermocouple wire, type TX, 20 gage, PFA Neoflon insulation.

| Discount Schedule (1000' Spools Only) | |
|---------------------------------------|-----|
| 3 to 4 spools | 10% |
| 5 to 9 spools | 15% |
| 10 to 19 spools | 20% |

KX**Extension Grade
CHROME[®]
ALOMEGA[®]
Duplex ANSI Type KX**ANSI Color Code: Positive Wire,
Yellow; Negative Wire,
Red; Overall, Yellow**To Order visit omega.com/exgg_jx_wire for Pricing and Details**

| Insulation | AWG No. | Model Number | Type Wire | Insulation | | Max Temp* | | Nominal Size mm (inch) | Wt.† kg/300 m (lb/1000') |
|-------------|---------|-------------------|-----------|-------------|-------------|-----------|-----|---------------------------|--------------------------|
| | | | | Conductor | Overall | °C | °F | | |
| Glass | 16 | EXGG-K-16 | Solid | Glass Braid | Glass Braid | 200 | 392 | 2.2 x 3.3 (0.085 x 0.130) | 9 (17) |
| Neoflon PFA | 16 | EXTT-K-16 | Solid | PFA | PFA | 200 | 392 | 2.2 x 3.9 (0.086 x 0.152) | 8 (16) |
| | 20 | EXTT-K-20 | Solid | PFA | PFA | 200 | 392 | 1.7 x 3.0 (0.068 x 0.116) | 4 (9) |
| | 24 | EXTT-K-24 | Solid | PFA | PFA | 200 | 392 | 1.4 x 2.3 (0.056 x 0.092) | 3 (6) |
| Polyvinyl | 14 | EXPP-K-14 | Solid | Polyvinyl | Polyvinyl | 105 | 221 | 3.4 x 7.3 (0.134 x 0.288) | 13 (28) |
| | 16 | EXPP-K-16 | Solid | Polyvinyl | Polyvinyl | 105 | 221 | 3.1 x 5.3 (0.123 x 0.207) | 10 (22) |
| | 16 | EXPP-K-16S | 7 x 24 | Polyvinyl | Polyvinyl | 105 | 221 | 5.5 x 5.7 (0.139 x 0.226) | 10 (22) |
| | 18 | EXPP-K-18S | 7 x 26 | Polyvinyl | Polyvinyl | 105 | 221 | 3.5 x 5.2 (0.138 x 0.205) | 8 (16) |
| | 20 | EXPP-K-20 | Solid | Polyvinyl | Polyvinyl | 105 | 221 | 2.4 x 3.8 (0.095 x 0.151) | 6 (12) |
| | 20 | EXPP-K-20S | 7 x 28 | Polyvinyl | Polyvinyl | 105 | 221 | 3.1 x 4.4 (0.123 x 0.175) | 6 (12) |
| | 24 | EXPP-K-24 | Solid | Polyvinyl | Polyvinyl | 105 | 221 | 1.9 x 3.0 (0.075 x 0.120) | 2 (4) |
| | 24 | EXPP-K-24S | 7 x 32 | Polyvinyl | Polyvinyl | 105 | 221 | 2.1 x 3.4 (0.082 x 0.134) | 4 (9) |
| Neoflon FEP | 16 | EXFF-K-16 | Solid | FEP | FEP | 200 | 392 | 2.2 x 3.9 (0.086 x 0.152) | 8 (16) |
| | 20 | EXFF-K-20 | Solid | FEP | FEP | 200 | 392 | 1.7 x 2.9 (0.068 x 0.116) | 4 (9) |
| | 24 | EXFF-K-24 | Solid | FEP | FEP | 200 | 392 | 1.4 x 2.3 (0.056 x 0.092) | 3 (6) |

* Maximum temperature is for extension grade wire or insulation, whichever is lower.

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

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

Ordering Example: **EXTT-K-20-25**, 25' spool of extension grade thermocouple wire, Type KX, 20 gage, stranded, Neoflon PFA insulation.**EX****Extension Grade
CHROME[®]/Constantan
Duplex ANSI Type EX**

ANSI Color Code: Positive Wire, Purple; Negative Wire, Red; Overall, Purple



| Insulation | AWG No. | Model Number | Type Wire | Insulation | | Max. Temp* | | Nominal Size mm (in) | Wt.† kg/300 m (lb/1000') |
|-------------|---------|-------------------|-----------|------------|-----------|------------|-----|---------------------------|--------------------------|
| | | | | Conductor | Overall | °C | °F | | |
| Neoflon PFA | 16 | EXTT-E-16 | Solid | PFA | PFA | 200 | 392 | 2.2 x 3.9 (0.086 x 0.152) | 8 (16) |
| | 20 | EXTT-E-20 | Solid | PFA | PFA | 200 | 392 | 1.7 x 2.9 (0.068 x 0.116) | 4 (9) |
| | 24 | EXTT-E-24 | Solid | PFA | PFA | 200 | 392 | 1.4 x 2.3 (0.056 x 0.092) | 3 (6) |
| Polyvinyl | 16 | EXPP-E-16 | Solid | Polyvinyl | Polyvinyl | 105 | 221 | 3.1 x 5.3 (0.123 x 0.207) | 10 (22) |
| | 18 | EXPP-E-18S | 7 x 26 | Polyvinyl | Polyvinyl | 105 | 221 | 3.5 x 5.2 (0.138 x 0.205) | 8 (16) |
| | 20 | EXPP-E-20 | Solid | Polyvinyl | Polyvinyl | 105 | 221 | 2.4 x 3.8 (0.095 x 0.151) | 6 (14) |
| | 24 | EXPP-E-24S | 7 x 32 | Polyvinyl | Polyvinyl | 105 | 221 | 2.1 x 3.4 (0.82 x 0.134) | 4 (9) |
| Neoflon FEP | 16 | EXFF-E-16 | Solid | FEP | FEP | 200 | 392 | 2.2 x 3.9 (0.086 x 0.152) | 8 (16) |
| | 20 | EXFF-E-20 | Solid | FEP | FEP | 200 | 392 | 1.7 x 2.9 (0.068 x 0.116) | 4 (9) |
| | 24 | EXFF-E-24 | Solid | FEP | FEP | 200 | 392 | 1.4 x 2.3 (0.056 x 0.092) | 3 (6) |

* Maximum temperature is for extension grade wire or insulation, whichever is lower.

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

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

Ordering Example: **EXPP-E-20-50**, 50' spool of extension grade thermocouple wire, Type EX, 20 gage, Polyvinyl over Polyvinyl insulation.**RX/SX****Extension Grade
Copper/Alloy#11
Duplex ANSI
Type RX and SX**Compensating Extension Wires for Platinum (-) /
Platinum-Rhodium (+) Thermocouples.

ANSI Color Code: Positive Wire, Black; Negative Wire, Red; Overall, Green



| Insulation | AWG No. | Model Number | Type Wire | Insulation | | Max. Temp* | | Nominal Size mm (in) | Wt.† kg/300 m (lb/1000') |
|-------------|---------|-------------------|-----------|-------------|-------------|------------|-----|---------------------------|--------------------------|
| | | | | Conductor | Overall | °C | °F | | |
| Glass | 20 | EXGG-RS-20 | Solid | Glass Braid | Glass Braid | 200 | 392 | 1.5 x 2.4 (0.060 x 0.095) | 3 (6) |
| | 24 | EXGG-RS-24 | Solid | Glass Braid | Glass Braid | 200 | 392 | 1.3 x 2.0 (0.050 x 0.080) | 1.8 (1.4) |
| Neoflon PFA | 20 | EXTT-RS-20 | Solid | PFA | PFA | 200 | 392 | 1.7 x 2.9 (0.068 x 0.116) | 4 (9) |
| | 24 | EXTT-RS-24 | Solid | PFA | PFA | 200 | 392 | 1.4 x 2.3 (0.056 x 0.092) | 3 (6) |
| Polyvinyl | 16 | EXPP-RS-16 | Solid | Polyvinyl | Polyvinyl | 105 | 221 | 3.0 x 5.0 (0.118 x 0.195) | 10 (22) |
| Neoflon FEP | 20 | EXFF-RS-20 | Solid | FEP | FEP | 200 | 392 | 1.7 x 2.9 (0.068 x 0.116) | 4 (9) |
| | 24 | EXFF-RS-24 | Solid | FEP | FEP | 200 | 392 | 1.4 x 2.3 (0.056 x 0.092) | 3 (6) |

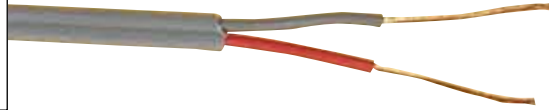
* Maximum temperature is for extension grade wire or insulation, whichever is lower.

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

Ordering Example: **EXTT-RS-20-500**, 500' spool of extension grade thermocouple wire, Type RX, 24 gage, Neoflon PFA insulation.**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.

BX

Extension Grade
Copper/Copper
Duplex
ANSI Type BX



ANSI
color
code
shown

To order
IEC color
code visit
omega.com

Compensating Extension Wires for Platinum 6% Rhodium (-)/Platinum 30% Rhodium (+)
Thermocouples **ANSI Color Code:** Positive Wire, Gray; Negative Wire, Red; Overall, Gray**

| Insulation | AWG No. | Model Number | Type Wire | Insulation | | Max Temp* | | Nominal Size: mm (in) | Wt.† kg/300 m (lb/1000') |
|------------|---------|--------------|-----------|-------------|-------------|-----------|-----|---------------------------|-----------------------------|
| | | | | Conductor | Overall | °C | °F | | |
| Glass | 20 | EXGG-B-20 | Solid | Glass braid | Glass braid | 100 | 212 | 1.5 x 2.4 (0.060 x 0.095) | 4 (9) |
| PFA | 26 | EXTT-B-26S | 7 x 34 | PFA | PFA | 100 | 212 | 1.1 x 1.7 (0.042 x 0.068) | 4 (9) |
| Polyvinyl | 24 | EXPP-B-24 | Solid | Polyvinyl | Polyvinyl | 100 | 212 | 1.9 x 3.1 (0.075 x 0.120) | 2 (5) |
| | 24 | EXPP-B-24S | 7 x 32 | Polyvinyl | Polyvinyl | 100 | 212 | 2.2 x 3.4 (0.182 x 0.134) | 5 (12) |
| FEP | 26 | EXFF-B-26S | 7 x 34 | FEP | FEP | 100 | 212 | 1.1 x 1.7 (0.042 x 0.068) | 2 (5) |

* Maximum temperature is for extension-grade wire or insulation, whichever is lower.

** Black on EXGG wire.

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

Ordering Example: EXGG-B-20-25, 25' spool of extension grade thermocouple wire, Type BX, 20 gage, stranded, glass insulation.

CX

Extension Grade
W5%Re/W26%Re
Duplex
Type CX



Compensating Extension Wires for W5%Re/W26%Re Thermocouples

Color Code: For EXGG Wire, Positive Wire, White/Red Trace; Negative Wire, Red; Overall, White/Red Trace
For EXXT† Wire, Positive Wire, White; Negative Wire, White/Red Trace; Overall, White/Red Trace

| Insulation | AWG No. | Model Number | Type Wire | Insulation | | Max Temp* | | Nominal Size: mm (in) | Wt.† kg/300 m (lb/1000') |
|--------------------|---------|--------------|-----------|-------------|-------------|-----------|-----|---------------------------|-----------------------------|
| | | | | Conductor | Overall | °C | °F | | |
| Nextel Ceramic* | 24 | EXXC-C-24 | Solid | Ceramic | Ceramic | 260 | 500 | 2.9 x 4.4 (0.115 x 0.175) | 5 (12) |
| | 24 | EXXT-C-24 | Solid | Ceramic | Ceramic | 260 | 500 | 2.2 x 3.4 (0.088 x .0132) | 5 (11) |
| | 24 | EXXL-C-24 | Solid | Ceramic | Ceramic | 260 | 500 | 2.0 x 3.0 (0.078 x 0.116) | 5 (10) |
| Glass | 24 | EXGG-C-24 | Solid | Glass braid | Glass braid | 260 | 500 | 1.3 x 2.0 (0.050 x 0.080) | 3 (7) |
| PFA | 24 | EXTT-C-24††† | Solid | PFA | PFA | 260 | 500 | 1.4 x 2.3 (0.056 x 0.092) | 3 (6) |

††† Note: Brown PFA jacket, white PFA positive leg and red negative leg.

Note: The XC is the standard braid, XT is a tight braid and XL is a light-duty braid; the three types of braid affect only the amount of Nextel used in manufacturing.

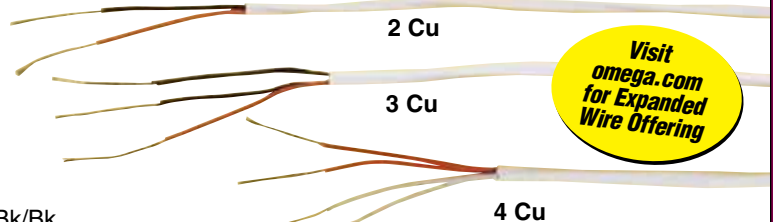
* Maximum temperature is for extension-grade wire or insulation, whichever is lower.

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

†† Has color tracers on jacket and conductors.

Ordering Example: EXGG-C-24-25, 25' spool of extension-grade thermocouple wire, Type CX, 24 gage, stranded, glass insulation.

Thermistor and RTD Extension Wire



Nickel-Plated Copper Wire***

Color Code: 2 Cu-Rd/Bk†††; 3 Cu-Rd/Bk/Bk; 4 Cu-Rd/Rd/Bk/Bk

| Insulation | AWG No. | Model Number | # of Con. | Type Wire | Insulation | | Max Temp* | | Nominal Size: mm (in) | Wt.† kg/300 m (lb/1000') |
|----------------|---------|--------------|-----------|-----------|-------------|-------------|-----------|-----|---------------------------|-----------------------------|
| | | | | | Conductor | Overall | °C | °F | | |
| Glass | 20 | EXGG-2CU-20 | 2 | Solid | Glass braid | Glass braid | 482 | 900 | 1.5 x 2.4 (0.060 x 0.095) | 4 (9) |
| | 26 | EXGG-2CU-26S | 2 | 7 x 34 | Glass braid | Glass braid | 482 | 900 | 1.5 x 1.3 (0.060 x 0.052) | 2 (5) |
| | 26 | EXGG-3CU-26S | 3 | 7 x 34 | Glass braid | Glass braid | 482 | 900 | 1.5 x 1.6 (0.060 x 0.064) | 3 (7) |
| | 26 | EXGG-4CU-26S | 4 | 7 x 34 | Glass braid | Glass braid | 482 | 900 | 1.5 x 1.7 (0.060 x 0.066) | 4 (9) |
| Neoflon PFA | 26 | EXTT-2CU-26S | 2 | 7 x 34 | PFA | PFA | 260 | 500 | 1.1 x 1.7 (0.042 x 0.068) | 2 (5) |
| | 26 | EXTT-3CU-26S | 3 | 7 x 34 | PFA | PFA | 260 | 500 | 1.8 Ø (0.072 Dia.) | 4 (9) |
| | 26 | EXTT-4CU-26S | 4 | 7 x 34 | PFA | PFA | 260 | 500 | 2.1 Ø (0.082 Dia.) | 4 (9) |
| Polyvinyl | 24 | EXPP-2CU-24S | 2 | 7 x 32 | Polyvinyl | Polyvinyl | 105 | 221 | 2.1 x 3.4 (0.082 x 0.134) | 5 (10) |
| | 24 | EXPP-3CU-24S | 3 | 7 x 32 | Polyvinyl | Polyvinyl | 105 | 221 | 4.22 Ø (0.166 Dia.) | 6 (14) |

* Maximum temperature is for extension-grade wire or insulation, whichever is lower.

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

*** Can be welded. ††† Can also be red/gray.

Ordering Example: EXTT-3CU-26S-25, 25' spool of thermistor and RTD extension wire, 24 gage, stranded, polyvinyl insulation.

Ø = diameter.

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