

# UL Listed Extension Grade Thermocouple Wire

EXPP Series  
Starts at  
**\$255**  
300 m (1000') Spool



For Longer Lengths  
Consult Sales for  
Price and Delivery!

- ✓ UL Listed Type PLTC, 300 V; Listed Under UL Subject 13, File E153789
- ✓ Extruded PVC Single Conductor and Duplex Insulation
- ✓ ANSI Color Coded
- ✓ Resistant to Moisture, Abrasion, Chemicals, and UV Light



Shown smaller  
than actual size.



NEWPORT® duplex extension grade thermocouple wire performs continuously at temperatures to 105°C (220°F). The wire's flexibility permits installation in conduit and wiring trays, and it is easily stripped by hand or using mechanical methods. Insulation is PVC. The wire is UL listed for Power Limited Tray Cable (PLTC) applications.

**Note:** Overbraiding wire invalidates UL rating.

## Spool Pricing Guidelines

Multiply 300 m or 1000' spool price by multiplier and round to the nearest dollar. Consult Sales for price quote.

|                |   |                  |   |        |
|----------------|---|------------------|---|--------|
| 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    |

ANSI  
color  
code  
shown

## Examples:

50' spool of thermocouple extension grade wire, type K, 16 gage, UL listed EXPP-K-16-UL-50, (Price = \$540 for 1000'):  
**50' Spool = \$540 x 0.1 = \$54.00**

Extension Grade  
**CHROMEGA®/  
ALOMEGA®**  
Duplex  
ANSI Type KX

**KX**



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

**MOST POPULAR  
MODEL HIGHLIGHTED!**

| Model Number  | AWG Gage | Nominal Conductor Size |       | Nominal Insulation Thickness |      |        |      | Nominal Overall Size |           | Approximate Shipping Weight |          | Price/1000'   |
|---------------|----------|------------------------|-------|------------------------------|------|--------|------|----------------------|-----------|-----------------------------|----------|---------------|
|               |          | inches                 | mm    | inches                       | mm   | inches | mm   | inches               | mm        | lb/1000'                    | kg/300 m |               |
| EXPP-K-14-UL  | 14       | 0.064                  | 1.62  | 0.020                        | 0.51 | 0.035  | 0.89 | 0.184 x 0.288        | 4.7 x 7.3 | 40                          | 18       | <b>\$1495</b> |
| EXPP-K-16S-UL | 16S      | 0.060                  | 1.52  | 0.015                        | 0.38 | 0.035  | 0.89 | 0.171 x 0.261        | 4.3 x 6.6 | 39                          | 17.7     | <b>1310</b>   |
| EXPP-K-16-UL  | 16       | 0.051                  | 1.29  | 0.015                        | 0.38 | 0.035  | 0.89 | 0.160 x 0.250        | 4.1 x 6.4 | 37                          | 16.8     | <b>865</b>    |
| EXPP-K-18S-UL | 18S      | 0.048                  | 1.22  | 0.015                        | 0.38 | 0.035  | 0.89 | 0.158 x 0.236        | 4.0 x 6.0 | 31                          | 14       | <b>1270</b>   |
| EXPP-K-20S-UL | 20S      | 0.038                  | 0.965 | 0.015                        | 0.38 | 0.035  | 0.89 | 0.148 x 0.226        | 3.8 x 5.7 | 24                          | 10.9     | <b>625</b>    |
| EXPP-K-20-UL  | 20       | 0.032                  | 0.813 | 0.015                        | 0.38 | 0.035  | 0.89 | 0.137 x 0.204        | 3.5 x 5.2 | 22                          | 10       | <b>485</b>    |

Ordering Example: EXPP-K-20-UL-1000, 1000' (300 m) UL listed extension grade thermocouple wire, 20 gage, type KX = \$485.

Extension Grade  
CHROMEGA®/Constantan  
Duplex  
ANSI Type EX



All products shown actual size.

**MOST POPULAR  
MODELS HIGHLIGHTED!**

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

| Model Number  | AWG Gage | Nominal Conductor Size |      | Nominal Insulation Thickness |      |         |      | Nominal Overall Size |           | Approximate Shipping Weight |          | Price 1000' |
|---------------|----------|------------------------|------|------------------------------|------|---------|------|----------------------|-----------|-----------------------------|----------|-------------|
|               |          |                        |      | Conductor                    |      | Overall |      |                      |           |                             |          |             |
|               |          | inches                 | mm   | inches                       | mm   | inches  | mm   | inches               | mm        | lb/1000'                    | kg/300 m |             |
| EXPP-E-16-UL  | 16       | 0.051                  | 1.3  | 0.015                        | 0.38 | 0.035   | 0.89 | 0.160 x 0.250        | 4.1 x 6.4 | 37                          | 16.8     | \$1215      |
| EXPP-E-18S-UL | 18S      | 0.048                  | 1.2  | 0.015                        | 0.38 | 0.035   | 0.89 | 0.158 x 0.236        | 4.0 x 6.0 | 31                          | 14       | 1000        |
| EXPP-E-20-UL  | 20       | 0.032                  | 0.81 | 0.015                        | 0.38 | 0.035   | 0.89 | 0.137 x 0.204        | 3.5 x 5.2 | 22                          | 10       | 370         |

Ordering Example: EXPP-E-16-UL-50, 50' of extension grade thermocouple wire, 16 gage, type EX, UL listed (\$1215 per 1000').  
\$1215 X 0.1 = \$121

Extension Grade  
Copper/Alloy#11  
Duplex  
ANSI Type RX/SX

Compensating Extension Wires for Platinum (-)/Platinum-Rhodium (+) Thermocouples

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

| Model<br>Number | AWG<br>Gage | Nominal<br>Conductor Size |     | Nominal Insulation Thickness |      |         |      | Nominal Overall<br>Size |           | Approximate<br>Shipping Weight |          | Price<br>1000' |
|-----------------|-------------|---------------------------|-----|------------------------------|------|---------|------|-------------------------|-----------|--------------------------------|----------|----------------|
|                 |             |                           |     | Conductor                    |      | Overall |      |                         |           |                                |          |                |
|                 |             | inches                    | mm  | inches                       | mm   | inches  | mm   | inches                  | mm        | lb/1000'                       | kg/300 m |                |
| EXPP-RS-16-UL   | 16          | 0.051                     | 1.3 | 0.015                        | 0.38 | 0.035   | 0.89 | 0.160 x 0.250           | 4.1 x 6.4 | 37                             | 16.8     | \$515          |

Ordering Example: EXPP-RS-16-UL-100 100' of extension grade thermocouple wire, 16 gage, type RX/SX, UL listed (\$515 per 1000').  
\$515 X 0.175 = \$90

Extension Grade  
Iron/Constantan  
Duplex  
ANSI Type JX

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

| Model Number  | AWG Gage | Nominal Conductor Size |      | Nominal Insulation Thickness |      |         |      | Nominal Overall Size |           | Approximate Shipping Weight |          | Price 1000' |
|---------------|----------|------------------------|------|------------------------------|------|---------|------|----------------------|-----------|-----------------------------|----------|-------------|
|               |          |                        |      | Conductor                    |      | Overall |      |                      |           |                             |          |             |
|               |          | inches                 | mm   | inches                       | mm   | inches  | mm   | inches               | mm        | lb/1000'                    | kg/300 m |             |
| EXPP-J-14-UL  | 14       | 0.064                  | 1.6  | 0.020                        | 0.51 | 0.035   | 0.89 | 0.184 x 0.288        | 4.7 x 7.3 | 40                          | 18       | \$855       |
| EXPP-J-16S-UL | 16S      | 0.060                  | 1.5  | 0.015                        | 0.38 | 0.035   | 0.89 | 0.171 x 0.261        | 4.3 x 6.6 | 39                          | 17.7     | 720         |
| EXPP-J-16-UL  | 16       | 0.051                  | 1.3  | 0.015                        | 0.38 | 0.035   | 0.89 | 0.160 x 0.250        | 4.1 x 6.4 | 37                          | 16.8     | 475         |
| EXPP-J-20S-UL | 20S      | 0.038                  | 0.97 | 0.015                        | 0.38 | 0.035   | 0.89 | 0.148 x 0.226        | 3.8 x 5.7 | 24                          | 10.9     | 420         |
| EXPP-J-20-UL  | 20       | 0.032                  | 0.81 | 0.015                        | 0.38 | 0.035   | 0.89 | 0.137 x 0.204        | 3.5 x 5.2 | 21                          | 10       | 240         |

Ordering Example: EXPP-J-20-UL-1000, 1000' of extension grade thermocouple wire, 20 gage, type JX, UL listed, \$240.

Extension Grade  
Copper/Constantan  
Duplex  
ANSI Type TX

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.

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

| Model<br>Number | AWG<br>Gage | Nominal<br>Conductor Size |       | Nominal Insulation Thickness |      |         |      | Nominal Overall<br>Size |           | Approximate<br>Shipping Weight |          | Price |
|-----------------|-------------|---------------------------|-------|------------------------------|------|---------|------|-------------------------|-----------|--------------------------------|----------|-------|
|                 |             |                           |       | Conductor                    |      | Overall |      |                         |           |                                |          |       |
|                 |             | inches                    | mm    | inches                       | mm   | inches  | mm   | inches                  | mm        | lb/1000'                       | kg/300 m |       |
| EXPP-T-14-UL    | 14          | 0.064                     | 1.62  | 0.020                        | 0.51 | 0.035   | 0.89 | 0.184 x 0.288           | 4.7 x 7.3 | 40                             | 18       | \$895 |
| EXPP-T-16-UL    | 16          | 0.051                     | 1.29  | 0.015                        | 0.38 | 0.035   | 0.89 | 0.160 x 0.250           | 4.1 x 6.5 | 37                             | 16.8     | 530   |
| EXPP-T-20S-UL   | 20S         | 0.038                     | 0.965 | 0.015                        | 0.38 | 0.035   | 0.89 | 0.148 x 0.226           | 3.7 x 5.7 | 24                             | 10.9     | 450   |
| EXPP-T-20-UL    | 20          | 0.032                     | 0.813 | 0.015                        | 0.38 | 0.035   | 0.89 | 0.137 x 0.204           | 3.5 x 5.2 | 22                             | 10       | 250   |

"S" Denotes stranded wire, e.g., "20S" is seven strands of 28 AWG wire, or 7/28

Ordering Example: EXPP-T-20-UL-500, 500' of extension grade thermocouple wire, 20 gage, type TX, UL listed (\$250 per 1000').  
\$250 X 0.5 = \$125