

# Type K Thermocouple Extension Wire

## Overview

- Available in Shielded and Unshielded
- PVC, Fiberglass, FEP, and Silica insulations
- 20AWG and 16AWG
- Cut to length (1 ft. increments, 20 ft. minimum length)
- Standard ASTM/ANSI color codes

| Thermocouple Extension Wire             |            |                   |                                                                                  |                                                   |                                          |                   |                                       |                       |         |                          |                |
|-----------------------------------------|------------|-------------------|----------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------|-------------------|---------------------------------------|-----------------------|---------|--------------------------|----------------|
| Part Number                             | Gauge, AWG | Conductors        | Conductor Insulation                                                             | Shield and Drain Wire                             | Jacket Material                          | Limits of Error** | Continuous Temperature Range          | Nominal Size (inches) | Wt (lb) | Minimum Cut Length (ft)* | Price per foot |
|                                         |            |                   |                                                                                  |                                                   |                                          |                   |                                       |                       |         |                          |                |
| <a href="#"><u>THMWK-20-1U-P-1</u></a>  | 20         | 2, solid          | PVC<br>Red = Negative<br>Yellow = Positive                                       | None                                              | PVC, Yellow                              | Standard          | -20°F to 221°F<br>(-29°C to 105°C)    | 0.095 x 0.158         | 0.02    | 20                       | \$0.45         |
|                                         |            |                   |                                                                                  |                                                   |                                          |                   |                                       |                       |         |                          |                |
| <a href="#"><u>THMWK-20-1U-G-1</u></a>  | 20         | 2, solid          | Fiberglass braid<br>Red = Negative<br>Yellow = Positive                          | None                                              | Fiberglass Braid, Brown w/ Yellow tracer | Standard          | 32°F to 900°F<br>(0°C to 482°C)       | 0.059 x 0.097         | 0.01    | 20                       | \$0.55         |
|                                         |            |                   |                                                                                  |                                                   |                                          |                   |                                       |                       |         |                          |                |
| <a href="#"><u>THMWK-20-1S-P-1</u></a>  | 20         | 2, twisted, solid | PVC<br>Red = Negative<br>Yellow = Positive                                       | Aluminum Mylar shield and copper 22AWG drain wire | PVC, Yellow                              | Standard          | -20°F to 221°F<br>(-29°C to 105°C)    | 0.170 O.D.            | 0.03    | 20                       | \$0.63         |
|                                         |            |                   |                                                                                  |                                                   |                                          |                   |                                       |                       |         |                          |                |
| <a href="#"><u>THMWK-20-1U-F-1</u></a>  | 20         | 2, twisted, solid | Extruded FEP<br>Red = Negative<br>Yellow = Positive                              | None                                              | Extruded FEP, Brown                      | Standard          | -20°F to 400°F<br>(-29°C to 204°C)    | 0.068/0.116           | 0.02    | 20                       | \$0.94         |
|                                         |            |                   |                                                                                  |                                                   |                                          |                   |                                       |                       |         |                          |                |
| <a href="#"><u>THMWK-20-1U-HG-1</u></a> | 20         | 2, twisted, solid | Braided Fiberglass Yarn<br>Red = Negative<br>Yellow = Positive                   | None                                              | Fiberglass, Brown                        | Standard          | 32°F to 1300°F***<br>(0°C to 704°C)   | 0.084/0.142           | 0.02    | 20                       | \$0.78         |
|                                         |            |                   |                                                                                  |                                                   |                                          |                   |                                       |                       |         |                          |                |
| <a href="#"><u>THMWK-20-1U-S-1</u></a>  | 20         | 2, twisted, solid | Braided Vitreous Silica<br>White/Red Stripe = Negative<br>Solid White = Positive | None                                              | Braided Vitreous Silica, Grey            | Standard          | 32°F, to 1800°F<br>(0°C to 982°C)**** | 0.098/0.162           | 0.02    | 20                       | \$2.09         |
|                                         |            |                   |                                                                                  |                                                   |                                          |                   |                                       |                       |         |                          |                |
| <a href="#"><u>THMWK-16-1U-P-1</u></a>  | 16         | 2, twisted, solid | Extruded PVC<br>Red = Negative<br>Yellow = Positive                              | None                                              | Extruded PVC, Yellow                     | Standard          | -20°F to 221°F<br>(-29°C to 105°C)    | 0.109/0.188           | 0.04    | 20                       | \$1.12         |

\* See web store for maximum cut lengths

\*\* Per ASTM E230 / E230M-12

\*\*\* 1600°F single exposure

\*\*\*\*2000°F single exposure

Note: Special connectors and terminal blocks are required to connect thermocouples to a control device. Both are available from [www.automationdirect.com](http://www.automationdirect.com)

Note: Maximum recommended distance between thermocouple and control device is 100 feet.

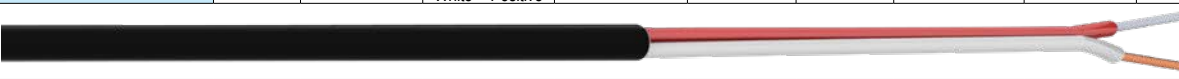


Please Note: Our prices on instrumentation cable are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.

# Type J Thermocouple Extension Wire

## Overview

- Available in Shielded and Unshielded
- PVC, Fiberglass, and FEP
- 20AWG and 16AWG
- Cut to length (1 ft. increments, 20 ft. minimum length)
- Standard ASTM/ANSI color codes

| Thermocouple Extension Wire                                                          |            |                   |                                                        |                                                   |                         |                   |                                    |                       |         |                           |                |
|--------------------------------------------------------------------------------------|------------|-------------------|--------------------------------------------------------|---------------------------------------------------|-------------------------|-------------------|------------------------------------|-----------------------|---------|---------------------------|----------------|
| Part Number                                                                          | Gauge, AWG | Conductors        | Conductor Insulation                                   | Shield and Drain Wire                             | Jacket Material         | Limits of Error** | Continuous Temperature Range       | Nominal Size (inches) | Wt (lb) | Minimum Cut Length (ft) * | Price per foot |
|    |            |                   |                                                        |                                                   |                         |                   |                                    |                       |         |                           |                |
| <a href="#"><u>THMWJ-20-1U-P-1</u></a>                                               | 20         | 2, solid          | PVC<br>Red = Negative<br>White = Positive              | None                                              | PVC, Black              | Standard          | -20°F to 221°F<br>(-29°C to 105°C) | 0.095 x 0.158         | 0.02    | 20                        | \$0.30         |
|    |            |                   |                                                        |                                                   |                         |                   |                                    |                       |         |                           |                |
| <a href="#"><u>THMWJ-20-1U-G-1</u></a>                                               | 20         | 2, solid          | Fiberglass braid<br>Red = Negative<br>White = Positive | None                                              | Fiberglass braid, Brown | Standard          | 32°F to 900°F<br>(0°C to 482°C)    | 0.059 x 0.097         | 0.01    | 20                        | \$0.40         |
|    |            |                   |                                                        |                                                   |                         |                   |                                    |                       |         |                           |                |
| <a href="#"><u>THMWJ-20-1S-P-1</u></a>                                               | 20         | 2, twisted, solid | PVC<br>Red = Negative<br>White = Positive              | Aluminum Mylar shield and copper 22AWG drain wire | PVC, Black              | Standard          | -20°F to 221°F<br>(-29°C to 105°C) | 0.170 O.D.            | 0.03    | 20                        | \$0.46         |
|  |            |                   |                                                        |                                                   |                         |                   |                                    |                       |         |                           |                |
| <a href="#"><u>THMWJ-20-1U-F-1</u></a>                                               | 20         | 2, solid          | Extruded FEP<br>Red = Negative<br>White = Positive     | None                                              | Extruded FEP, Brown     | Standard          | -20°F to 400°F<br>(-29°C to 204°C) | 0.068/0.116           | 0.02    | 20                        | \$0.71         |
|  |            |                   |                                                        |                                                   |                         |                   |                                    |                       |         |                           |                |
| <a href="#"><u>THMWJ-16-1U-P-1</u></a>                                               | 16         | 2, solid          | Extruded PVC<br>Red = Negative<br>White = Positive     | None                                              | Extruded PVC, Black     | Standard          | -20°F to 221°F<br>(-29°C to 105°C) | 0.109/0.188           | 0.02    | 20                        | \$0.71         |

\* See web store for maximum cut lengths

\*\* Per ASTM E230 / E230M-12

Note: Special connectors and terminal blocks are required to connect thermocouples to a control device. Both are available from [www.automationdirect.com](http://www.automationdirect.com)

Note: Maximum recommended distance between thermocouple and control device is 100 feet.



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# Type T Thermocouple Extension Wire

## Overview

- Available in Shielded and Unshielded
- PVC and Fiberglass insulations
- 20AWG
- Cut to length (1 ft. increments, 20 ft. minimum length)
- Standard ASTM/ANSI color codes

| Thermocouple Extension Wire                                                        |            |                   |                                                       |                                                   |                                        |                   |                                    |                       |         |                           |                |
|------------------------------------------------------------------------------------|------------|-------------------|-------------------------------------------------------|---------------------------------------------------|----------------------------------------|-------------------|------------------------------------|-----------------------|---------|---------------------------|----------------|
| Part Number                                                                        | Gauge, AWG | Conductors        | Conductor Insulation                                  | Shield and Drain Wire                             | Jacket Material                        | Limits of Error** | Continuous Temperature Range       | Nominal Size (inches) | Wt (lb) | Minimum Cut Length (ft) * | Price per foot |
|   |            |                   |                                                       |                                                   |                                        |                   |                                    |                       |         |                           |                |
| THMWT-20-1U-P-1                                                                    | 20         | 2, solid          | PVC<br>Red = Negative<br>Blue = Positive              | None                                              | PVC, Blue                              | Standard          | -20°F to 221°F<br>(-29°C to 105°C) | 0.059 x 0.097         | 0.02    | 20                        | \$0.34         |
|  |            |                   |                                                       |                                                   |                                        |                   |                                    |                       |         |                           |                |
| THMWT-20-1U-G-1                                                                    | 20         | 2, solid          | Fiberglass braid<br>Red = Negative<br>Blue = Positive | None                                              | Fiberglass braid, Brown w/ Blue tracer | Standard          | 32°F to 900°F<br>(0°C to 482°C)    | 0.059 x 0.097         | 0.01    | 20                        | \$0.40         |
|  |            |                   |                                                       |                                                   |                                        |                   |                                    |                       |         |                           |                |
| THMWT-20-1S-P-1                                                                    | 20         | 2, twisted, solid | PVC<br>Red = Negative<br>Blue = Positive              | Aluminum Mylar shield and copper 22AWG drain wire | PVC, Blue                              | Standard          | -20°F to 221°F<br>(-29°C to 105°C) | 0.059 x 0.097         | 0.03    | 20                        | \$0.51         |

\* See web store for maximum cut lengths

\*\* Per ASTM E230 / E230M-12

Note: Special connectors and terminal blocks are required to connect thermocouples to a control device. Both are available from [www.automationdirect.com](http://www.automationdirect.com)

Note: Maximum recommended distance between thermocouple and control device is 100 feet.

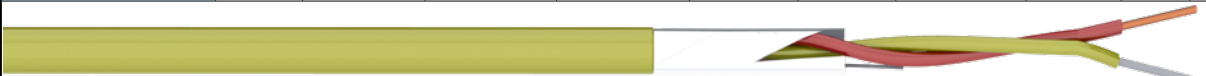
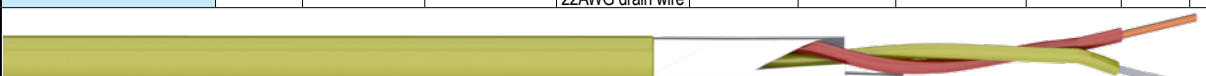
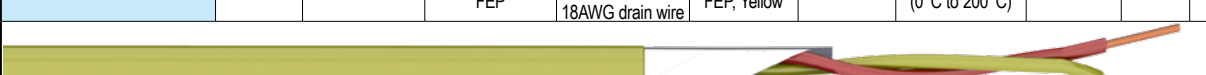
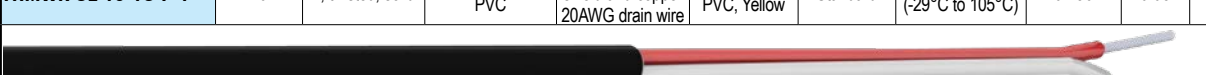
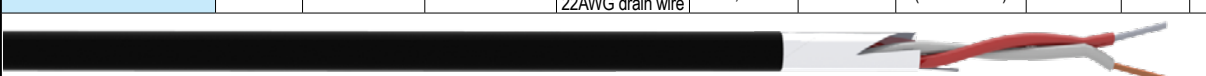
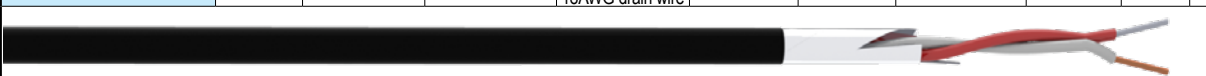


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# UL Listed Type K & J Thermocouple Extension Wire

## Overview

- UL Listed PLTC-UL13
- Available in Shielded and Unshielded
- PVC and FEP insulations
- 20AWG and 16AWG
- Cut to length (1 ft. increments, 20 ft. minimum length)
- Standard ASTM/ANSI color codes

| Thermocouple Extension Wire                                                          |            |                   |                      |                                                   |                      |                   |                                 |                       |         |                          |                |
|--------------------------------------------------------------------------------------|------------|-------------------|----------------------|---------------------------------------------------|----------------------|-------------------|---------------------------------|-----------------------|---------|--------------------------|----------------|
| Part Number                                                                          | Gauge, AWG | Conductors        | Conductor Insulation | Shield and Drain Wire                             | Jacket Material      | Limits of Error** | Continuous Temperature Range    | Nominal Size (inches) | Wt (lb) | Minimum Cut Length (ft)* | Price per foot |
|    |            |                   |                      |                                                   |                      |                   |                                 |                       |         |                          |                |
| THMWK-UL-20-1U-P-1                                                                   | 20         | 2, twisted, solid | Extruded PVC         | None                                              | Extruded PVC, Yellow | Standard          | -20°F to 105°F (-29°C to 41°C)  | 0.136/0.198           | 0.02    | 20                       | \$0.72         |
|    |            |                   |                      |                                                   |                      |                   |                                 |                       |         |                          |                |
| THMWK-UL-20-1S-F-1                                                                   | 20         | 2, twisted, solid | Extruded FEP         | Aluminum Mylar shield and copper 22AWG drain wire | Extruded FEP, Yellow | Standard          | 32°F to 392°F (0°C to 200°C)    | 0.150                 | 0.04    | 20                       | \$0.74         |
|    |            |                   |                      |                                                   |                      |                   |                                 |                       |         |                          |                |
| THMWK-UL-16-1S-F-1                                                                   | 16         | 2, twisted, solid | Extruded FEP         | Aluminum Mylar shield and copper 18AWG drain wire | Extruded FEP, Yellow | Standard          | 32°F to 392°F (0°C to 200°C)    | 0.188                 | 0.05    | 20                       | \$2.00         |
|   |            |                   |                      |                                                   |                      |                   |                                 |                       |         |                          |                |
| THMWK-UL-16-1S-P-1                                                                   | 16         | 2, twisted, solid | Extruded PVC         | Aluminum Mylar shield and copper 20AWG drain wire | Extruded PVC, Yellow | Standard          | -20°F to 221°F (-29°C to 105°C) | 0.256                 | 0.05    | 20                       | \$1.34         |
|  |            |                   |                      |                                                   |                      |                   |                                 |                       |         |                          |                |
| THMWJ-UL-20-1U-P-1                                                                   | 20         | 2, solid          | Extruded PVC         | None                                              | Extruded PVC, Black  | Standard          | 32°F to 200°F (0°C to 93°C)     | 0.136/0.198           | 0.02    | 20                       | \$0.35         |
|  |            |                   |                      |                                                   |                      |                   |                                 |                       |         |                          |                |
| THMWJ-UL-20-1S-F-1                                                                   | 20         | 2, solid          | Extruded FEP         | Aluminum Mylar shield and copper 22AWG drain wire | Extruded FEP, Black  | Standard          | 32°F to 200°F (0°C to 93°C)     | 0.150                 | 0.04    | 20                       | \$0.95         |
|  |            |                   |                      |                                                   |                      |                   |                                 |                       |         |                          |                |
| THMWJ-UL-16-1S-F-1                                                                   | 16         | 2, solid          | Extruded FEP         | Aluminum Mylar shield and copper 18AWG drain wire | Extruded FEP, Black  | Standard          | -20°F to 200°F (-29°C to 93°C)  | 0.184                 | 0.05    | 20                       | \$1.52         |
|  |            |                   |                      |                                                   |                      |                   |                                 |                       |         |                          |                |
| THMWJ-UL-16-1S-P-1                                                                   | 16         | 2, solid          | Extruded PVC         | Aluminum Mylar shield and copper 18AWG drain wire | Extruded PVC, Black  | Standard          | 32°F to 105°F (0°C to 40°C)     | 0.256                 | 0.05    | 20                       | \$0.89         |

\* See web store for maximum cut lengths

\*\* Per ASTM E230 / E230M-12

Note: Special connectors and terminal blocks are required to connect thermocouples to a control device. Both are available from [www.automationdirect.com](http://www.automationdirect.com)

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