

# TE Wire & Cable - TC & RTD



## Overview

AutomationDirect offers Thermocouple Extension Cable with either an Overall Shield (OS) or with Individually Shielded Pairs with an Overall Shield (SPOS) in both Type K and Type J. These cables allow the convenience of connecting multiple field sensors to operating instrumentation or PLC input cards with one run versus having to install multiple extension wires. With an operating temperature range of -30°C to 105°C (-22°F to 221°F) and a rugged PVC jacket these cables are designed to take on the toughest application. The alphanumeric print on the twisted pairs make identifying the pairs for installation and troubleshooting easy. Available in bulk lengths or cut to length starting at a low 20-foot minimum, AutomationDirect's Thermocouple Extension Cable is a great solution for those applications where multiple temperature sensors need to be connected to a control system.

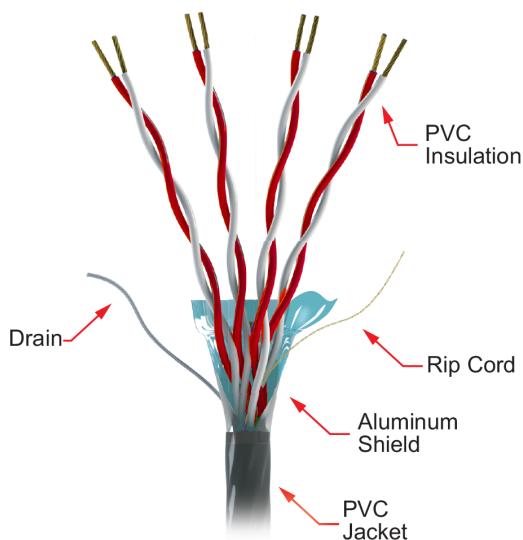
## Features

- 2, 4, & 8 pair thermocouple extension cable
- UL PLTC rated
- 105C PVC Jacket
- NEC Article 725 Hazardous Locations(Class I, Div 2)
- Overall Cable Shield & Individual and Overall Cable Shields
- 20 gauge solid thermocouple alloy
- Sequentially numbered twisted pairs
- Low 20 foot minimum length
- Made in the USA

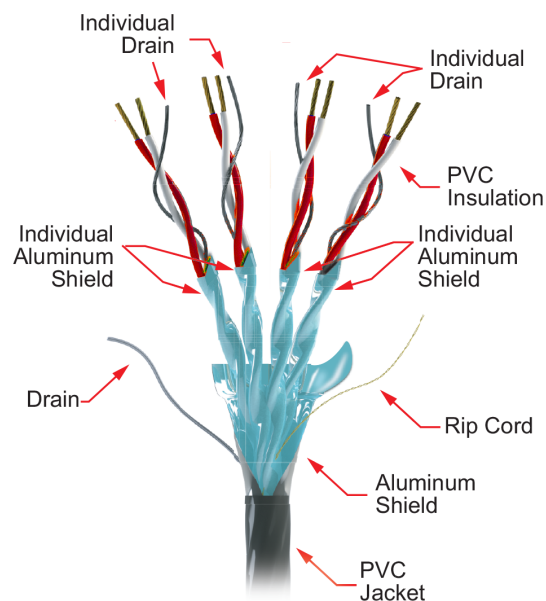


Click on the above thumbnail or go to <https://www.automationdirect.com/VID-WD-0016> for a short introduction on our cut to length cable

### Overall Cable Shield



### Individual and Overall Cable Shields





# Thermocouple Extension Cable - Twisted Pair - Overall Shield

## Thermocouple Extension Cable Twisted Pair Shielded Specifications

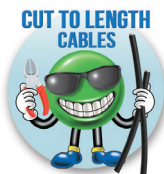
|  |  |                             |  |
|--|--|-----------------------------|--|
| <b>Conductor Gauge &amp; Stranding</b> | 20AWG Solid  | <b>Print Legend*</b>        | TE WIRE & CABLE (UL) TYPE PLTC 105C 20 AWG<br>THCPL EXTN TYPE xx WWW.TEWIRE.COM  |
| <b>Voltage Rating</b>                  | 300V   | <b>Flame Rating</b>         | Passes VW-1 Flame Test<br>Passes IEEE 383 Flame Test   |
| <b>Jacket Material</b>                 | Sunlight resistant PVC (polyvinyl chloride)                                  | <b>Applicable Standards</b> | UL Standard 13 Type PLTC<br>UL Standard 2250 Type ITC<br>NEC Article 725 (Type PLTC)<br>Hazardous Locations:<br>NEC Article 725 (Class I, Div 2) |
| <b>Conductor Insulation</b>            | PVC  |                             |  |
| <b>Conductor Markings</b>              | Alphanumeric print @ 4-inch intervals  |                             |  |
| <b>Temperature Rating</b>              | -30°C to 105°C (-22°F to 221°F)  |                             |  |
| <b>Shield and Drain Wire</b>           | Overall aluminum polyester foil shield with a 20AWG tinned copper drain wire |                             |  |
| <b>Min. Bend Radius</b>                | 10x diameter   |                             |  |

\*XX = Number of shielded pairs

## Thermocouple Extension Cable Twisted Pair Shielded Selection

| Part Number  | Number of Pairs | AWG | Conductor Insulation Thickness (Mils) | Conductor Approx. O.D. (Inches) | Overall Jacket Thickness (Mils) | Nominal O.D. (Inches ± 10%) | Installed Bend Radius (Inches) | Minimum Cut Length (ft)* | Approximate Weight (lb/ft) | Price per foot |
|--|-----------------|-----|---------------------------------------|---------------------------------|---------------------------------|-----------------------------|--------------------------------|--------------------------|----------------------------|----------------|
|  |                 |     |                                       |                                 |                                 |                             |                                |                          |                            |                |
| <a href="#"><u>THMWK-20-2S-P-1</u></a>   | 2               | 20  | 0.016                                 | 0.070                           | 0.042                           | 0.331                       | 4.0                            | 20                       | 0.07                       | \$-4jp8:       |
| <a href="#"><u>THMWK-20-4S-P-1</u></a>   | 4               | 20  |                                       |                                 |                                 | 0.377                       | 4.5                            |                          | 0.08                       | \$-4jp9:       |
| <a href="#"><u>THMWK-20-8S-P-1</u></a>   | 8               | 20  |                                       |                                 |                                 | 0.493                       | 6.0                            |                          | 0.15                       | \$-4jpa:       |
|  |                 |     |                                       |                                 |                                 |                             |                                |                          |                            |                |
| <a href="#"><u>THMWJ-20-2S-P-1</u></a>   | 2               | 20  | 0.016                                 | 0.070                           | 0.042                           | 0.331                       | 4.0                            | 20                       | 0.07                       | \$-4jp7:       |
| <a href="#"><u>THMWJ-20-4S-P-1</u></a>   | 4               | 20  |                                       |                                 |                                 | 0.377                       | 4.5                            |                          | 0.08                       | \$-4jpb:       |
| <a href="#"><u>THMWJ-20-8S-P-1</u></a>   | 8               | 20  |                                       |                                 |                                 | 0.492                       | 6.0                            |                          | 0.15                       | \$-4jpc:       |

\* See web store for maximum cut lengths





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.

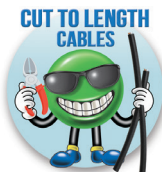
# Thermocouple Extension Cable - Twisted Pair - Individual/Overall Shield

| Thermocouple Extension Cable Twisted Pair Individual/Overall Shield Specifications |   |                             |  |
|--|---|-----------------------------|--|
| <b>Conductor Gauge &amp; Stranding</b>   | 20AWG Solid   | <b>Min. Bend Radius</b>     | 10x diameter   |
| <b>Voltage Rating</b>  | 300V  | <b>Print Legend*</b>        | TE WIRE & CABLE (UL) TYPE PLTC 105C 20 AWG<br>THCPL EXTN TYPE xx WWW.TEWIRE.COM  |
| <b>Jacket Material</b>   | Sunlight resistant PVC (polyvinyl chloride)   | <b>Flame Rating</b>         | Passes VW-1 Flame Test<br>Passes IEEE 383 Flame Test   |
| <b>Conductor Insulation</b>  | PVC   | <b>Applicable Standards</b> | UL Standard 13 Type PLTC<br>UL Standard 2250 Type ITC<br>NEC Article 725 (Type PLTC)<br>Hazardous Locations:<br>NEC Article 725 (Class I, Div 2) |
| <b>Conductor Markings</b>  | Alphanumeric print @ 4-inch intervals   |                             |  |
| <b>Temperature Rating</b>  | -30°C to 105°C (-22°F to 221°F)   |                             |  |
| <b>Cable Overall Shield and Drain Wire</b>   | Individual and overall aluminum polyester foil shield with a 20AWG tinned copper drain wire |                             |  |
| <b>Individual Pairs Shield and Drain Wire</b>                                      | Aluminum polyester foil shield with a 22AWG tinned copper drain wire                        |                             |  |

\* XX = Number of shielded pairs

| Thermocouple Extension Cable Twisted Pair Individual/Overall Shield Selection      |                 |     |                                       |                                 |                                 |                             |                                |                           |                            |                |
|--|-----------------|-----|---------------------------------------|---------------------------------|---------------------------------|-----------------------------|--------------------------------|---------------------------|----------------------------|----------------|
| Part Number  | Number of Pairs | AWG | Conductor Insulation Thickness (Mils) | Conductor Approx. O.D. (Inches) | Overall Jacket Thickness (Mils) | Nominal O.D. (Inches ± 10%) | Installed Bend Radius (Inches) | Minimum Cut Length (ft) * | Approximate Weight (lb/ft) | Price per foot |
|  |                 |     |                                       |                                 |                                 |                             |                                |                           |                            |                |
| <a href="#">THMWK-20-2SS-P-1</a>   | 2               | 20  | 0.016                                 | 0.070                           | 0.042                           | 0.349                       | 4.25                           | 20                        | 0.07                       | \$-4jpd:       |
| <a href="#">THMWK-20-4SS-P-1</a>   | 4               | 20  |                                       |                                 |                                 | 0.456                       | 5.5                            |                           | 0.12                       | \$-4jpe:       |
| <a href="#">THMWK-20-8SS-P-1</a>   | 8               | 20  |                                       |                                 | 0.053                           | 0.579                       | 7.0                            |                           | 0.20                       | \$;-4jpf:      |
|  |                 |     |                                       |                                 |                                 |                             |                                |                           |                            |                |
| <a href="#">THMWJ-20-2SS-P-1</a>   | 2               | 20  | 0.016                                 | 0.070                           | 0.042                           | 0.349                       | 4.25                           | 20                        | 0.07                       | \$-4jpg:       |
| <a href="#">THMWJ-20-4SS-P-1</a>   | 4               | 20  |                                       |                                 |                                 | 0.455                       | 5.5                            |                           | 0.12                       | \$-4jph:       |
| <a href="#">THMWJ-20-8SS-P-1</a>   | 8               | 20  |                                       |                                 | 0.053                           | 0.579                       | 7.0                            |                           | 0.20                       | \$;-4jpi:      |

\* See web store for maximum cut lengths



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