

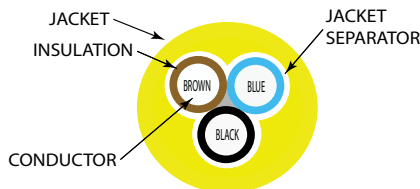
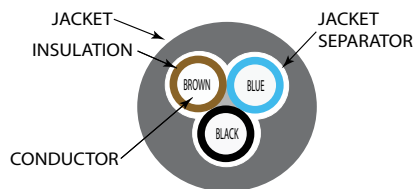


# 24AWG 3-Conductor Sensor / Actuator Cable (Unshielded)

| 24AWG 3-Conductor Bulk Sensor / Actuator Cable Specifications (Unshielded) |                                  |                                     |   |
|--|----------------------------------|-------------------------------------|---|
| <b>Conductors Gauge &amp; Stranding</b>                                    | 24AWG 19/36 Stranded bare copper | <b>Insulated Conductor Diameter</b> | 0.045 in Nominal  |
| <b>Voltage Rating</b>  | 300V                             | <b>Minimum Bend Radius (in.)</b>    | 10x Diameter  |
| <b>Temperature Rating, Max.</b>  | 176°F (80°C)                     | <b>Overall Diameter</b>             | 0.167 in. Nominal   |
| <b>Temperature Rating, Min.</b>  | -4°F (-20°C)                     | <b>Jacket Color</b>                 | Gray or Yellow  |
| <b>Cold Bend Test</b>  | -40°F (-40°C)                    | <b>Jacket Thickness</b>             | 0.032 in. Nominal   |
| <b>Capacitance, Mutual, Nom.</b>   | 23.13 PF/FT.                     | <b>Jacket Material</b>              | Pressure extruded Polyvinylchloride (PVC)   |
| <b>Impedance</b>   | 92.62 Ω                          | <b>Sunlight Resistant</b>           | Yes   |
| <b>D.C. Resistance, Max.</b>   | 23.4 Ω / 1000ft                  | <b>Oil Resistance</b>               | Yes   |
| <b>Conductor Twist / Lay</b>   | 1.625" Maximum left hand lay     | <b>Flame Retardant</b>              | FT-1  |
| <b>Filler Material</b>   | N/A                              | <b>Approvals</b>                    | UR AWM STYLE 2464 80C 300V<br>CSA AWM I/II A/B 80C 300V   |
| <b>Jacket Separator</b>  | Tissue tape 25% overlap          |                                     |   |
| <b>Conductor Insulation Material</b>                                       | Polyvinylchloride (PVC)          |                                     |   |
| <b>Conductor Identification</b>  | Black, Brown, Blue               | <b>Sample Print Legend</b>          | AutomationDirect - SAC-24-3U-1xx-1<br>E505482<br>AWM 2464 80C 300V --<br>LL274638 CSA AWM I/II A/B 80C 300V FT1 |
| <b>Conductor Insulation Wall Thickness</b>                                 | 0.010 in. Nominal                |                                     |   |
| <b>Bare Conductor Diameter</b>   | 0.025 in. Nominal                |                                     |   |

| 24AWG 3-Conductor Bulk Sensor / Actuator Cable Selection                            |              |                      |     |        |                          |                            |                |
|---|--------------|----------------------|-----|--------|--------------------------|----------------------------|----------------|
| Part Number   | Jacket Color | Number of Conductors | AWG | Strand | Minimum Cut Length (ft)* | Approximate Weight (lb/ft) | Price per foot |
|  |              |                      |     |        |                          |                            |                |
| <b>SAC-24-3U-1GY-1</b>  | Gray         | 3                    | 24  | 19/36  | 30                       | 0.0150                     | \$0.38         |
|  |              |                      |     |        |                          |                            |                |
| <b>SAC-24-3U-1YL-1</b>  | Yellow       | 3                    | 24  | 19/36  | 30                       | 0.0150                     | \$0.37         |



\* See web store for maximum cut lengths



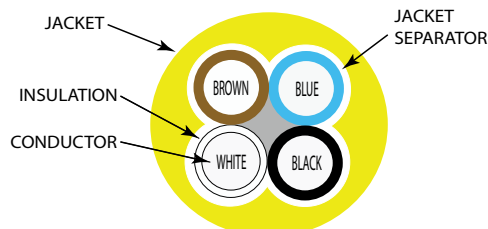
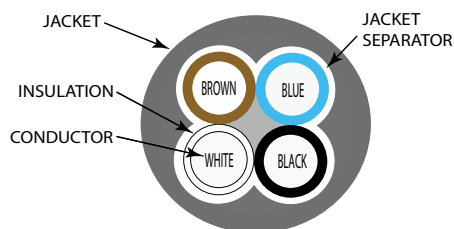
Please Note: Our prices on Bulk Sensor / Actuator Cable are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.

# 24AWG 4-Conductor Sensor / Actuator Cable (Unshielded)

| 24AWG 4-Conductor Bulk Sensor / Actuator Cable Specifications (Unshielded) |                                  |                                     |   |
|--|----------------------------------|-------------------------------------|---|
| <b>Conductors Gauge &amp; Stranding</b>                                    | 24AWG 19/36 Stranded bare copper | <b>Insulated Conductor Diameter</b> | 0.045 in. Nominal   |
| <b>Voltage Rating</b>  | 300V                             | <b>Minimum Bend Radius (in.)</b>    | 10x Diameter  |
| <b>Temperature Rating, Max.</b>  | 176°F (80°C)                     | <b>Overall Diameter</b>             | 0.178 in. Nominal   |
| <b>Temperature Rating, Min.</b>  | -4°F (-20°C)                     | <b>Jacket Color</b>                 | Gray or Yellow  |
| <b>Cold Bend Test</b>  | -40°F (-40°C)                    | <b>Jacket Thickness</b>             | 0.032 in. Nominal   |
| <b>Capacitance, Mutual, Nom.</b>   | 23.13 PF/FT.                     | <b>Jacket Material</b>              | Pressure extruded Polyvinylchloride (PVC)   |
| <b>Impedance</b>   | 92.62 Ω                          | <b>Sunlight Resistant</b>           | Yes   |
| <b>D.C. Resistance, Max.</b>   | 23.4 Ω / 1000ft                  | <b>Oil Resistance</b>               | Yes   |
| <b>Conductor Twist / Lay</b>   | 1.8" Maximum left hand lay       | <b>Flame Retardant</b>              | FT-1  |
| <b>Filler Material</b>   | N/A                              | <b>Approvals</b>                    | UR AWM STYLE 2464 80C 300V<br>CSA AWM I/II A/B 80C 300V   |
| <b>Jacket Separator</b>  | Tissue tape 25% overlap          |                                     |   |
| <b>Conductor Insulation Material</b>                                       | Polyvinylchloride (PVC)          |                                     |   |
| <b>Conductor Identification</b>  | Black, Brown, Blue, White        | <b>Sample Print Legend</b>          | AutomationDirect – SAC-24-4U-1xx-1<br>E505482<br>AWM 2464 80C 300V --<br>LL274638 CSA AWM I/II A/B 80C 300V FT1 |
| <b>Conductor Insulation Wall Thickness</b>                                 | 0.010 in. Nominal                |                                     |   |
| <b>Bare Conductor Diameter</b>   | 0.025 in. Nominal                |                                     |   |

| 24AWG 4-Conductor Bulk Sensor / Actuator Cable Selection                            |              |                      |     |        |                          |                            |                |
|---|--------------|----------------------|-----|--------|--------------------------|----------------------------|----------------|
| Part Number   | Jacket Color | Number of Conductors | AWG | Strand | Minimum Cut Length (ft)* | Approximate Weight (lb/ft) | Price per foot |
|  |              |                      |     |        |                          |                            |                |
| <b>SAC-24-4U-1GY-1</b>  | Gray         | 4                    | 24  | 19/36  | 30                       | 0.0178                     | \$0.43         |
|  |              |                      |     |        |                          |                            |                |
| <b>SAC-24-4U-1YL-1</b>  | Yellow       | 4                    | 24  | 19/36  | 30                       | 0.0178                     | \$0.43         |



\* See web store for maximum cut lengths



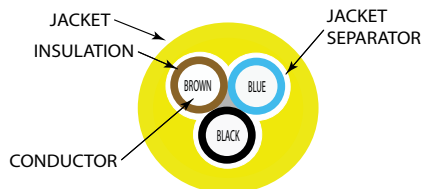
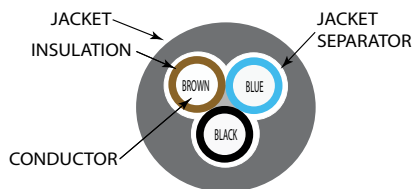
Please Note: Our prices on Bulk Sensor / Actuator Cable are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.

# 22AWG 3-Conductor Sensor / Actuator Cable (Unshielded)

| 22AWG 3-Conductor Bulk Sensor / Actuator Cable Specifications (Unshielded) |                                  |                                     |   |
|--|----------------------------------|-------------------------------------|---|
| <b>Conductors Gauge &amp; Stranding</b>                                    | 22AWG 19/34 Stranded bare copper | <b>Insulated Conductor Diameter</b> | 0.050 in. Nominal   |
| <b>Voltage Rating</b>  | 300V                             | <b>Minimum Bend Radius (in.)</b>    | 10x Diameter  |
| <b>Temperature Rating, Max.</b>  | 176°F (80°C)                     | <b>Overall Diameter</b>             | 0.177 in. Nominal   |
| <b>Temperature Rating, Min.</b>  | -4°F (-20°C)                     | <b>Jacket Color</b>                 | Gray or Yellow  |
| <b>Cold Bend Test</b>  | -40°F (-40°C)                    | <b>Jacket Thickness</b>             | 0.032 in. Nominal   |
| <b>Capacitance, Mutual, Nom.</b>   | 25 PF/FT.                        | <b>Jacket Material</b>              | Pressure extruded Polyvinylchloride (PVC)   |
| <b>Impedance</b>   | 85.64 Ω                          | <b>Sunlight Resistant</b>           | Yes   |
| <b>D.C. Resistance, Max.</b>   | 14.6 Ω / 1000ft                  | <b>Oil Resistance</b>               | Yes   |
| <b>Conductor Twist / Lay</b>   | 1.75" Maximum left hand lay      | <b>Flame Retardant</b>              | FT-1  |
| <b>Filler Material</b>   | N/A                              | <b>Approvals</b>                    | UR AWM STYLE 2464 80C 300V<br>CSA AWM I/II A/B 80C 300V   |
| <b>Jacket Separator</b>  | Tissue tape 25% overlap          |                                     |   |
| <b>Conductor Insulation Material</b>                                       | Polyvinylchloride (PVC)          |                                     |   |
| <b>Conductor Identification</b>  | Black, Brown, Blue               | <b>Sample Print Legend</b>          | AutomationDirect – SAC-22-3U-1xx-1<br>E505482<br>AWM 2464 80C 300V --<br>LL274638 CSA AWM I/II A/B 80C 300V FT1 |
| <b>Conductor Insulation Wall Thickness</b>                                 | 0.010 in. Nominal                |                                     |   |
| <b>Bare Conductor Diameter</b>   | 0.030 in. Nominal                |                                     |   |

| 22AWG 3-Conductor Bulk Sensor / Actuator Cable Selection                            |              |                      |     |        |                          |                            |                |
|---|--------------|----------------------|-----|--------|--------------------------|----------------------------|----------------|
| Part Number   | Jacket Color | Number of Conductors | AWG | Strand | Minimum Cut Length (ft)* | Approximate Weight (lb/ft) | Price per foot |
|  |              |                      |     |        |                          |                            |                |
| <b>SAC-22-3U-1GY-1</b>  | Gray         | 3                    | 22  | 19/34  | 30                       | 0.0185                     | \$0.43         |
|  |              |                      |     |        |                          |                            |                |
| <b>SAC-22-3U-1YL-1</b>  | Yellow       | 3                    | 22  | 19/34  | 30                       | 0.0185                     | \$0.43         |

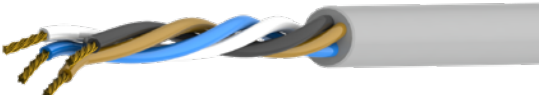

\* See web store for maximum cut lengths



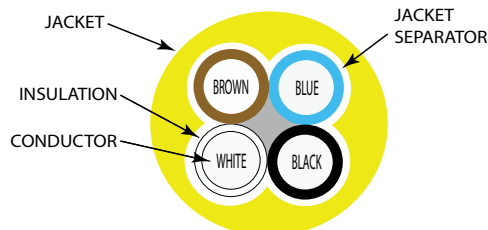
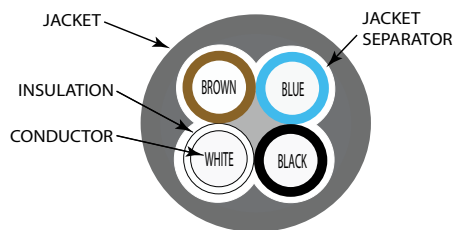
Please Note: Our prices on Bulk Sensor / Actuator Cable are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.

# 22AWG 4-Conductor Sensor / Actuator Cable (Unshielded)

| 22AWG 4-Conductor Bulk Sensor / Actuator Cable Specifications (Unshielded) |                                  |                                     |   |
|--|----------------------------------|-------------------------------------|---|
| <b>Conductors Gauge &amp; Stranding</b>                                    | 22AWG 19/34 Stranded bare copper | <b>Insulated Conductor Diameter</b> | 0.050 in. Nominal   |
| <b>Voltage Rating</b>  | 300V                             | <b>Minimum Bend Radius (in.)</b>    | 10x Diameter  |
| <b>Temperature Rating, Max.</b>  | 176°F (80°C)                     | <b>Overall Diameter</b>             | 0.190 in. Nominal   |
| <b>Temperature Rating, Min.</b>  | -4°F (-20°C)                     | <b>Jacket Color</b>                 | Gray or Yellow  |
| <b>Cold Bend Test</b>  | -40°F (-40°C)                    | <b>Jacket Thickness</b>             | 0.032 in. Nominal   |
| <b>Capacitance, Mutual, Nom.</b>   | 25 PF/FT.                        | <b>Jacket Material</b>              | Pressure extruded Polyvinylchloride (PVC)   |
| <b>Impedance</b>   | 85.64 Ω                          | <b>Sunlight Resistant</b>           | Yes   |
| <b>D.C. Resistance, Max.</b>   | 14.6 Ω / 1000ft                  | <b>Oil Resistance</b>               | Yes   |
| <b>Conductor Twist / Lay</b>   | 2" Maximum left hand lay         | <b>Flame Retardant</b>              | FT-1  |
| <b>Filler Material</b>   | N/A                              | <b>Approvals</b>                    | UR AWM STYLE 2464 80C 300V<br>CSA AWM I/II A/B 80C 300V   |
| <b>Jacket Separator</b>  | Tissue tape 25% overlap          |                                     |   |
| <b>Conductor Insulation Material</b>                                       | Polyvinylchloride (PVC)          |                                     |   |
| <b>Conductor Identification</b>  | Black, Brown, Blue, White        | <b>Sample Print Legend</b>          | AutomationDirect – SAC-22-4U-1xx-1<br>E505482<br>AWM 2464 80C 300V --<br>LL274638 CSA AWM I/II A/B 80C 300V FT1 |
| <b>Conductor Insulation Wall Thickness</b>                                 | 0.010 in. Nominal                |                                     |   |
| <b>Bare Conductor Diameter</b>   | 0.030 in. Nominal                |                                     |   |

| 22AWG 4-Conductor Bulk Sensor / Actuator Cable Selection                            |              |                      |     |        |                          |                            |                |
|---|--------------|----------------------|-----|--------|--------------------------|----------------------------|----------------|
| Part Number   | Jacket Color | Number of Conductors | AWG | Strand | Minimum Cut Length (ft)* | Approximate Weight (lb/ft) | Price per foot |
|  |              |                      |     |        |                          |                            |                |
| <b>SAC-22-4U-1GY-1</b>  | Gray         | 4                    | 22  | 19/34  | 30                       | 0.0224                     | \$0.50         |
|  |              |                      |     |        |                          |                            |                |
| <b>SAC-22-4U-1YL-1</b>  | Yellow       | 4                    | 22  | 19/34  | 30                       | 0.0224                     | \$0.50         |

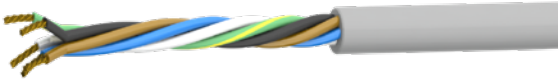
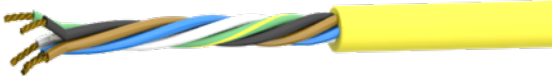
\* See web store for maximum cut lengths



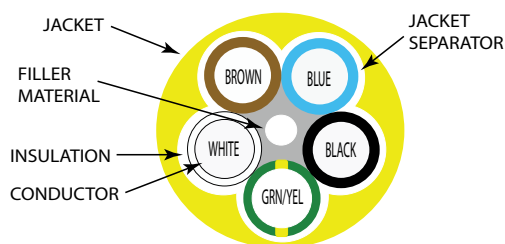
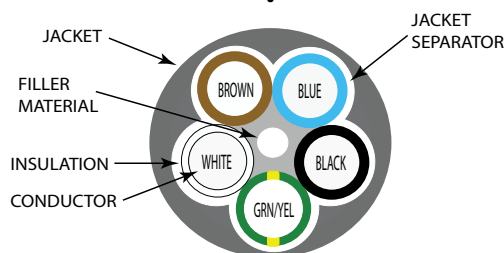
Please Note: Our prices on Bulk Sensor / Actuator Cable are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.

# 22AWG 5-Conductor Sensor / Actuator Cable (Unshielded)

| 22AWG 5-Conductor Bulk Sensor / Actuator Cable Specifications (Unshielded) |  |                                     |   |
|--|--|-------------------------------------|---|
| <b>Conductors Gauge &amp; Stranding</b>                                    | 22AWG 19/34 Stranded bare copper               | <b>Insulated Conductor Diameter</b> | 0.050 in. Nominal   |
| <b>Voltage Rating</b>  | 300V   | <b>Minimum Bend Radius (in.)</b>    | 10x Diameter  |
| <b>Temperature Rating, Max.</b>  | 176°F (80°C)                                   | <b>Overall Diameter</b>             | 0.204 in. Nominal   |
| <b>Temperature Rating, Min.</b>  | -4°F (-20°C)                                   | <b>Jacket Color</b>                 | Gray or Yellow  |
| <b>Cold Bend Test</b>  | -40°F (-40°C)                                  | <b>Jacket Thickness</b>             | 0.032 in. Nominal   |
| <b>Capacitance, Mutual, Nom.</b>   | 25 PF/FT.                                      | <b>Jacket Material</b>              | Pressure extruded Polyvinylchloride (PVC)   |
| <b>Impedance</b>   | 85.64  | <b>Sunlight Resistant</b>           | Yes   |
| <b>D.C. Resistance, Max.</b>   | 14.6 Ω / 1000ft                                | <b>Oil Resistance</b>               | Yes   |
| <b>Conductor Twist / Lay</b>   | 2" Maximum left hand lay                       | <b>Flame Retardant</b>              | FT-1  |
| <b>Filler Material</b>   | Polypropylene (PP) cord                        | <b>Approvals</b>                    | UR AWM STYLE 2464 80C 300V<br>CSA AWM I/II A/B 80C 300V   |
| <b>Jacket Separator</b>  | Tissue tape 25% overlap                        |                                     |   |
| <b>Conductor Insulation Material</b>                                       | Polyvinylchloride (PVC)                        |                                     |   |
| <b>Conductor Identification</b>  | Black, Brown, Blue, White, Green/Yellow stripe | <b>Sample Print Legend</b>          | AutomationDirect – SAC-22-5U-1xx-1<br>E505482<br>AWM 2464 80C 300V --<br>LL274638 CSA AWM I/II A/B 80C 300V FT1 |
| <b>Conductor Insulation Wall Thickness</b>                                 | 0.010 in. Nominal                              |                                     |   |
| <b>Bare Conductor Diameter</b>   | 0.030 in. Nominal                              |                                     |   |

| 22AWG 5-Conductor Bulk Sensor / Actuator Cable Selection                             |              |                      |     |        |                          |                            |                |
|--|--------------|----------------------|-----|--------|--------------------------|----------------------------|----------------|
| Part Number  | Jacket Color | Number of Conductors | AWG | Strand | Minimum Cut Length (ft)* | Approximate Weight (lb/ft) | Price per foot |
|  |              |                      |     |        |                          |                            |                |
| <b>SAC-22-5U-1GY-1</b>   | Gray         | 5                    | 22  | 19/34  | 30                       | 0.0265                     | \$0.60         |
|  |              |                      |     |        |                          |                            |                |
| <b>SAC-22-5U-1YL-1</b>   | Yellow       | 5                    | 22  | 19/34  | 30                       | 0.0265                     | \$0.60         |

\* See web store for maximum cut lengths



Please Note: Our prices on Bulk Sensor / Actuator 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.



# Sensor / Actuator Cable (Unshielded)

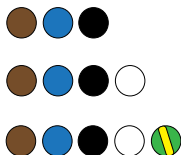


## Conductor Colors:

### 3 Conductor

### 4 Conductor

### 5 Conductor



## Overview

Flexible multi-conductor sensor/actuator cable from AutomationDirect is available in 24AWG and 22AWG with 3, 4 or 5 unshielded conductors. Individual conductors are bare copper and stranded for flexibility, with color coded PVC insulation for easy identification. The cable's outer jacket is a flexible PVC available in either gray or yellow. Although not suitable for continuous flexing applications, these cables are ideal for both stationary and flexible industrial factory automation applications with limited mechanical stress and free movement without any tensile stress, loads or forced movements.

AutomationDirect flexible multi-conductor sensor/actuator cable carries both UL and CSA approvals and can easily be terminated using field wireable connectors also available from AutomationDirect. Eliminate unnecessary expense and waste by ordering only the length needed in 1 foot increments with a low 30 foot minimum.

## Features

- 24AWG and 22AWG, 3, 4 or 5 conductors
- Unshielded
- PVC conductor insulation with color code for easy identification
- PVC outer jacket available in gray or yellow
- Pressure extruded jacket for optimal roundness
- Flexibility for easy installation
- Made in the USA
- UL and CSA approvals
- Order cut to length in 1 foot increments eliminating expense and waste
- Ideal for use with Field Wireable Connectors also available from AutomationDirect



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



# Field Wireable Connectors

## Insulation Displacement Connectors (IDC)

### Features

- IDC (insulation displacement connection) allows quick termination without stripping conductors
- Various cable gauges and diameters accepted
- M8 and M12 connector types available



## M12 Field Wireable Screw Connectors

### Features

- IP67 rated once properly assembled
- Various cable gauges and diameters accepted
- Plastic housings with good resistance against chemicals and oils



See [www.AutomationDirect.com](http://www.AutomationDirect.com) for our full offering of Field Wireable Connectors.