Power Machine Tray Cable from AutomationDirect is available in sizes from 18AWG to 8AWG with 3 to 25 unshielded conductors. Individual conductors are bare copper and stranded for flexibility, with black PVC/Nylon insulation and marked with numbers for easy identification. A convenient ground conductor is included in the conductor count of each cable and has insulation that is green with a yellow stripe. The cable’s outer jacket is a flexible, premium grade Thermoplastic Elastomer (TPE) that is resistant to sunlight, oil, and moisture penetration, making these cables suitable for wet and dry locations as well as outdoors. Although not suitable for continuous flexing applications, these cables are ideal for both stationary and flexible applications with limited mechanical stress and free movement without any tensile stress, loads or forced movements.

With multiple ratings and approvals, AutomationDirect Power Machine Tray Cable has the versatility to meet a wide range of industrial applications. Given its Tray Cable Exposed Run rating, UL Type TC-ER, our cable can be installed between a cable tray and the utilization equipment or device without the need for metal conduit and/or armor resulting in installation and maintenance savings. With the Machine Tool Wire rating, UL Type MTW, these cables meet NFPA 79, Electrical Standard for Industrial Machinery. Other ratings and approvals include Wind Turbine Tray Cable UL Type WTTC, Class 1 Division 2 Hazardous Locations and Direct Burial. Cut to length in 1 foot increments with a 20 foot minimum length.

Features

- 18AWG to 8AWG, 3 to 25 conductors including a ground
- Individual conductors have black PVC/Nylon insulation and are marked with identification numbers
- Rugged Thermoplastic Elastomer (TPE) outer jacket
- Green/yellow ground wire included
- Multiple ratings and approvals include Type TC-ER (eliminates need for conduit/armor), Type MTW (meets NFPA 79), WTTC, Class 1 Division 2, Direct Burial, Wet and Dry Location, Oil Resistant, Sunlight Resistant
- Flexibility for easy installation
- Cut to length in 1 foot increments
- Low 20 foot minimum length
- Made in the USA

Click on the above thumbnail or go to https://www.automationdirect.com/VIP-WD-0016 for a short introduction on our cut to length cable.
18 Gauge Multi-Conductor Flexible Power/Control Cable Specifications (Unshielded)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Number of Conductors (Includes ground)</th>
<th>AWG</th>
<th>Strand</th>
<th>Overall Conductor Insulation Thickness (Mils)</th>
<th>Overall Jacket Thickness (Mils)</th>
<th>Nominal O.D. (Inc. ±10%)</th>
<th>Minimum Installed Bend Radius (Inches)*</th>
<th>Minimum Cut Length (ft)**</th>
<th>Approximate Weight (lb/ft)</th>
<th>Price per foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMTC-18U-3BK-1</td>
<td>3</td>
<td>18</td>
<td>16</td>
<td>20</td>
<td>45</td>
<td>0.28</td>
<td>1.12</td>
<td>20</td>
<td>0.05</td>
<td>$0.47</td>
</tr>
<tr>
<td>PMTC-18U-4BK-1</td>
<td>4</td>
<td>18</td>
<td>16</td>
<td>20</td>
<td>45</td>
<td>0.31</td>
<td>1.24</td>
<td>20</td>
<td>0.06</td>
<td>$0.58</td>
</tr>
<tr>
<td>PMTC-18U-5BK-1</td>
<td>5</td>
<td>18</td>
<td>16</td>
<td>20</td>
<td>45</td>
<td>0.33</td>
<td>1.32</td>
<td>20</td>
<td>0.07</td>
<td>$0.74</td>
</tr>
<tr>
<td>PMTC-18U-7BK-1</td>
<td>7</td>
<td>18</td>
<td>16</td>
<td>20</td>
<td>45</td>
<td>0.36</td>
<td>1.44</td>
<td>20</td>
<td>0.09</td>
<td>$0.99</td>
</tr>
<tr>
<td>PMTC-18U-9BK-1</td>
<td>9</td>
<td>18</td>
<td>16</td>
<td>20</td>
<td>45</td>
<td>0.41</td>
<td>1.64</td>
<td>20</td>
<td>0.11</td>
<td>$1.40</td>
</tr>
<tr>
<td>PMTC-18U-12BK-1</td>
<td>12</td>
<td>18</td>
<td>16</td>
<td>20</td>
<td>45</td>
<td>0.46</td>
<td>1.84</td>
<td>20</td>
<td>0.14</td>
<td>$1.67</td>
</tr>
<tr>
<td>PMTC-18U-25BK-1</td>
<td>25</td>
<td>18</td>
<td>16</td>
<td>20</td>
<td>45</td>
<td>0.64</td>
<td>2.56</td>
<td>20</td>
<td>0.25</td>
<td>$2.37</td>
</tr>
</tbody>
</table>

* Installed bend radius > 4x diameter
** See web store for maximum cut lengths

Please Note: Our prices on flexible power/control 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.

For the latest prices, please check AutomationDirect.com.
16 Gauge Multi-Conductor Power/Control Cable (Unshielded)

**Part Number** | **Number of Conductors** | **AWG** | **Strand** | **Overall Conductor Insulation Thickness** | **Nominal O.D.** | **Minimum Installed Bend Radius** | **Approximate Weight** | **Price per foot**
--- | --- | --- | --- | --- | --- | --- | --- | ---
PMTC-16U-3BK-1 | 3 | 16 | 26 | 20 | 50 | 0.31 | 1.24 | 20 | 0.06 | $0.65
PMTC-16U-4BK-1 | 4 | 16 | 26 | 20 | 50 | 0.34 | 1.36 | 20 | 0.08 | $0.81
PMTC-16U-5BK-1 | 5 | 16 | 26 | 20 | 50 | 0.37 | 1.48 | 20 | 0.09 | $1.02
PMTC-16U-9BK-1 | 9 | 16 | 26 | 20 | 50 | 0.46 | 1.84 | 20 | 0.14 | $1.81
PMTC-16U-12BK-1 | 12 | 16 | 26 | 20 | 50 | 0.51 | 2.04 | 20 | 0.20 | $2.28

* Installed bend radius > 4x diameter
** See web store for maximum cut lengths

Please Note: Our prices on flexible power/control 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.
# 14 Gauge Multi-Conductor Power/Control Cable (Unshielded)

## Specifications

### Conductor Gauge & Stranding
- 14AWG 41/30 bare copper, Class K

### Voltage Rating
- 600V (Type TC-ER)
- 1000V (Type WTTC)
- 1000V (UL/CSA AWM)

### Capacitance
- 37.09 pF/ft Nom. Conductor to Conductor

### Resistance
- 2.57 Ω/kft*

### Impedance
- 40.0 Ω

### Operating Temperature
- -40°C to 90°C (-40°F to 194°F)

### Jacket Material
- Flexible Black Thermoplastic Elastomer (TPE) - sunlight & oil resistant

### Conductor Insulation
- 0.015 Inch, PVC + 0.005 Inch, NYLON Class 1 Division II per NEC 336, 501, 502

### Conductor Markings
- "1-ONE", "2-TWO", "3-THREE", etc... @ 4.5 inch intervals, ICEA Method 4

### Temperature Rating
- 75°C (167°F) Wet, 90°C (194°F) Dry

### Cold Impact
- -40°C (-40°F) per UL 1277

### Min. Bend Radius
- 4x diameter

### Flame Rating
- FT4, IEEE 1202/383, ICEA T-29-520

### Oil Resistance
- Oil Res I & II

### Sample Print Legend
- Southwire XXAWG (XXmm2) XX/C PVC/Nylon Type TC-ER E75755 (UL) 600V 90°C Dry 75°C Wet Sun Res Oil Res I/II DIR BUR - 40°C OR MTW Flexing OR DP-1 OR WTTC 1000V OR AWM 20886 105°C 1000V OR c(UL) CIC/TC FT4 - LL90458 CSA AWM UL I/A/B 105°C 1000V -40°C FT4 -- CE

### Approvals
- UL (E75755), CSA (90458)

### Applicable Standards
- ASTM B3, B172, B174
- UL 1277 - Type TC-ER
- UL 2277 - Type WTTC
- UL 1063 - Machine Tool Wiring (MTW)
- UL 1690 - Data Processing Cable (DP-1)
- UL 758 - AWM Style 20886
- C22.2 No. 230 - c(UL) Type TC
- CSA C22.2 No. 210 - CSA AWM I/II A/B
- Class 1 Division II per NEC 336, 501, 502

### Cold Impact
- -40°C (-40°F) per UL 1277

### Min. Bend Radius
- 4x diameter

### Flame Rating
- FT4, IEEE 1202/383, ICEA T-29-520

### Oil Resistance
- Oil Res I & II

### Cables

For the latest prices, please check AutomationDirect.com.
12 Gauge Multi-Conductor Power/Control Cable (Unshielded)

Please Note: Our prices on flexible power/control 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.

### Part Number Table

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Number of Conductors (includes ground)</th>
<th>AWG</th>
<th>Strand</th>
<th>Overall Conductor Insulation Thickness (Mils)</th>
<th>Overall Jacket Thickness (Mils)</th>
<th>Nominal O.D. (Inches ±10%)</th>
<th>Minimum Installed Bend Radius (inches)*</th>
<th>Minimum Cut Length (ft) **</th>
<th>Approximate Weight (lb/ft)</th>
<th>Price per foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMTC-12U-3BK-1</td>
<td>3</td>
<td>12</td>
<td>65</td>
<td>0.39</td>
<td>1.56</td>
<td>0.015</td>
<td>4x diameter</td>
<td>20</td>
<td>0.11</td>
<td>$1.46</td>
</tr>
<tr>
<td>PMTC-12U-4BK-1</td>
<td>4</td>
<td>12</td>
<td>65</td>
<td>0.42</td>
<td>1.68</td>
<td>0.015</td>
<td>4x diameter</td>
<td>20</td>
<td>0.15</td>
<td>$1.81</td>
</tr>
<tr>
<td>PMTC-12U-5BK-1</td>
<td>5</td>
<td>12</td>
<td>65</td>
<td>0.46</td>
<td>1.85</td>
<td>0.015</td>
<td>4x diameter</td>
<td>20</td>
<td>0.18</td>
<td>$1.98</td>
</tr>
<tr>
<td>PMTC-12U-7BK-1</td>
<td>7</td>
<td>12</td>
<td>65</td>
<td>0.50</td>
<td>2.01</td>
<td>0.015</td>
<td>4x diameter</td>
<td>20</td>
<td>0.23</td>
<td>$2.75</td>
</tr>
</tbody>
</table>

*Installed bend radius ≥ 4x diameter

**See web store for maximum cut lengths

* Per ASTM B174

** To obtain the most current agency approval information, see Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

For the latest prices, please check AutomationDirect.com.
10 Gauge Multi-Conductor Power/Control Cable (Unshielded)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Number of Conductors (includes ground)</th>
<th>AWG</th>
<th>Strand</th>
<th>Overall Conductor Insulation Thickness (Mils)</th>
<th>Overall Jacket Thickness (Mils)</th>
<th>Nominal O.D. (Inches ±10%)</th>
<th>Minimum Installed Bend Radius (inches)*</th>
<th>Minimum Cut Length (ft)**</th>
<th>Approximate Weight (lb/ft)</th>
<th>Price per foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMTC-10U-4BK-1</td>
<td>4</td>
<td>10</td>
<td>105</td>
<td>25</td>
<td>50</td>
<td>0.50</td>
<td>2.00</td>
<td>20</td>
<td>0.21</td>
<td>$1.88</td>
</tr>
<tr>
<td>PMTC-10U-5BK-1</td>
<td>5</td>
<td>10</td>
<td>105</td>
<td>25</td>
<td>50</td>
<td>0.53</td>
<td>2.12</td>
<td>20</td>
<td>0.26</td>
<td>$2.97</td>
</tr>
</tbody>
</table>

* Installed bend radius ≥ 4x diameter
** * See web store for maximum cut lengths

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Please Note: Our prices on flexible power/control 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.
# 8 Gauge Multi-Conductor Power/Control Cable (Unshielded)

## Specifications (Unshielded)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Number of Conductors (includes ground)</th>
<th>AWG</th>
<th>Strand</th>
<th>Overall Conductor Insulation Thickness (Mils)</th>
<th>Overall Jacket Thickness (Mils)</th>
<th>Nominal O.D. (Inches ±10%)</th>
<th>Minimum Installed Bend Radius (inches)*</th>
<th>Minimum Cut Length (ft)**</th>
<th>Approximate Weight (lb/ft)</th>
<th>Price per foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMTC-8U-4BK-1</td>
<td>4</td>
<td>8</td>
<td>168</td>
<td>37</td>
<td>70</td>
<td>0.68</td>
<td>2.72</td>
<td>20</td>
<td>0.37</td>
<td>$3.63</td>
</tr>
</tbody>
</table>

* Installed bend radius ≥ 4x diameter  
** See web store for maximum cut lengths

---

**Please Note:** Our prices on flexible power/control 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.