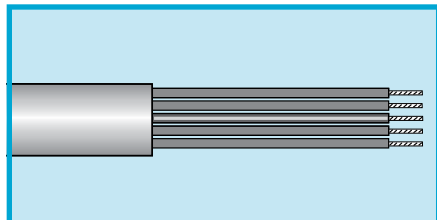


## Series M Control Cable

Oil and Chemical-Resistant PVC Control Cable  
for Stationary or Minimal Flex Applications  
600 V Unshielded, Multiconductor



**UL TC-ER**  
**UL MTW**  
**UL WTTT (1000 V)**  
**UL PLTC (300 V)**  
**CSA AWM I/II A/B FT4**  
**CE LVD 2006/95/EC**

### Operating Temperature

- -25°C to +90°C (static)
- -5°C to +90°C (dynamic)

### Conductor Color Coding

- Red, blue, or black insulation\*, numbered
- 1 green/yellow conductor
- 1 white-striped neutral
- (12 conductors or greater)

### Materials

- Finely stranded bare copper conductors
- PVC/nylon insulation
- Slate PVC jacket

### Features

- UL Sunlight Resistant
- UL Oil Res. I
- UL Direct Burial
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code
- 90°C Dry/75°C Wet

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose cross-linked polyolefin
- FIT-321: Medium-wall, adhesive-lined cross-linked polyolefin

#### 18 AWG (0.96 mm²)

Stranding: 19/30 (19 x 0.25 mm)  
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No.        |                 |                 | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|-----------------|-----------------|------------|------------------|-------|------------------|------|
| Black Insul.    | Blue Insul.     | Red Insul.      |            | Inch             | mm    | Inch             | mm   |
| <b>M18103KW</b> | <b>M18103LW</b> | <b>M18103RW</b> | 3          | 0.301            | 7.65  | 0.050            | 1.27 |
| <b>M18104KW</b> | <b>M18104LW</b> | <b>M18104RW</b> | 4          | 0.326            | 8.28  | 0.050            | 1.27 |
| <b>M18105KW</b> | <b>M18105LW</b> | <b>M18105RW</b> | 5          | 0.353            | 8.97  | 0.050            | 1.27 |
| <b>M18107KW</b> | <b>M18107LW</b> | <b>M18107RW</b> | 7          | 0.381            | 9.68  | 0.050            | 1.27 |
| <b>M18112KW</b> | <b>M18112LW</b> | <b>M18112RW</b> | 12         | 0.515            | 13.08 | 0.065            | 1.65 |
| <b>M18117KW</b> | <b>M18117LW</b> | <b>M18117RW</b> | 17         | 0.594            | 15.09 | 0.065            | 1.65 |
| <b>M18122KW</b> | <b>M18122LW</b> | <b>M18122RW</b> | 22         | 0.651            | 16.54 | 0.065            | 1.65 |
| <b>M18125KW</b> | <b>M18125LW</b> | <b>M18125RW</b> | 25         | 0.699            | 17.75 | 0.065            | 1.65 |
| <b>M18134KW</b> | <b>M18134LW</b> | <b>M18134RW</b> | 34         | 0.777            | 19.74 | 0.065            | 1.65 |
| <b>M18142KW</b> | <b>M18142LW</b> | <b>M18142RW</b> | 42         | 0.874            | 22.20 | 0.085            | 2.15 |
| <b>M18149KW</b> | <b>M18149LW</b> | <b>M18149RW</b> | 49         | 0.923            | 23.44 | 0.085            | 2.15 |
| <b>M18165KW</b> | <b>M18165LW</b> | <b>M18165RW</b> | 65         | 1.029            | 26.14 | 0.085            | 2.15 |

#### 16 AWG (1.32 mm²)

Stranding: 26/30 (26 x 0.25 mm)  
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No.        |                 |                 | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|-----------------|-----------------|------------|------------------|-------|------------------|------|
| Black Insul.    | Blue Insul.     | Red Insul.      |            | Inch             | mm    | Inch             | mm   |
| <b>M16103KW</b> | <b>M16103LW</b> | <b>M16103RW</b> | 3          | 0.323            | 8.20  | 0.050            | 1.27 |
| <b>M16104KW</b> | <b>M16104LW</b> | <b>M16104RW</b> | 4          | 0.350            | 8.89  | 0.050            | 1.27 |
| <b>M16105KW</b> | <b>M16105LW</b> | <b>M16105RW</b> | 5          | 0.380            | 9.65  | 0.050            | 1.27 |
| <b>M16107KW</b> | <b>M16107LW</b> | <b>M16107RW</b> | 7          | 0.421            | 10.69 | 0.055            | 1.39 |
| <b>M16112KW</b> | <b>M16112LW</b> | <b>M16112RW</b> | 12         | 0.557            | 14.14 | 0.065            | 1.65 |
| <b>M16117KW</b> | <b>M16117LW</b> | <b>M16117RW</b> | 17         | 0.644            | 16.35 | 0.065            | 1.65 |
| <b>M16119KW</b> | <b>M16119LW</b> | <b>M16119RW</b> | 19         | 0.644            | 16.35 | 0.065            | 1.65 |
| <b>M16122KW</b> | <b>M16122LW</b> | <b>M16122RW</b> | 22         | 0.707            | 17.95 | 0.065            | 1.65 |
| <b>M16125KW</b> | <b>M16125LW</b> | <b>M16125RW</b> | 25         | 0.761            | 19.32 | 0.065            | 1.65 |
| <b>M16133KW</b> | <b>M16133LW</b> | <b>M16133RW</b> | 33         | 0.857            | 21.76 | 0.085            | 2.15 |
| <b>M16142KW</b> | <b>M16142LW</b> | <b>M16142RW</b> | 42         | 0.950            | 24.13 | 0.085            | 2.15 |
| <b>M16149KW</b> | <b>M16149LW</b> | <b>M16149RW</b> | 49         | 1.005            | 25.52 | 0.085            | 2.15 |
| <b>M16165KW</b> | <b>M16165LW</b> | <b>M16165RW</b> | 65         | 1.122            | 28.49 | 0.085            | 2.15 |

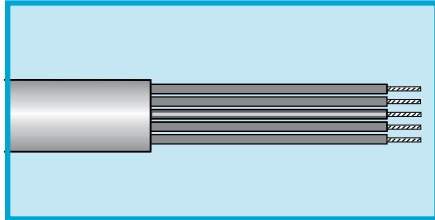
Series M cable meets the needs for stationary/ cable tray and minimal flexing applications and where superior resistance to oils and chemicals is mandatory. It offers superior performance in static applications, with a tough PVC/PVC-nylon.

\*Red insulation: AC circuits operating at less than line voltage  
Blue insulation: DC circuits operating at less than line voltage  
Black insulation: AC circuits operating at less than line voltage

# Series M Control Cable

Oil and Chemical-Resistant PVC Control Cable  
for Stationary or Minimal Flex Applications  
600 V Unshielded, Multiconductor

**INDUSTRIAL  
SERIES**  
From AlphaWire



**UL TC-ER**  
**UL MTW**  
**UL WTTT (1000 V)**  
**UL PLTC (300 V)**  
**CSA AWM I/II A/B FT4**  
**CE LVD 2006/95/EC**

## Operating Temperature

- -25°C to +90°C (static)
- -5°C to +90°C (dynamic)

## Conductor Color Coding

- Red, blue, or black insulation\*, numbered
- 1 green/yellow conductor
- 1 white-striped neutral
- (12 conductors or greater, except 14 AWG)

## Materials

- Finely stranded bare copper conductors
- PVC/nylon insulation
- Slate PVC jacket

## Features

- UL Sunlight Resistant
- UL Oil Res. I
- UL Direct Burial
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code
- 90°C Dry/75°C Wet

## Availability

Bulk, cut to length

## FIT® Tubing Recommendations

- FIT-221: General-purpose cross-linked polyolefin
- FIT-321: Medium-wall, adhesive-lined cross-linked polyolefin

### 14 AWG (2.09 mm²)

Stranding: 41/30 (41 x 0.25 mm)  
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No.        |                 |                 | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|-----------------|-----------------|------------|------------------|-------|------------------|------|
| Black Insul.    | Blue Insul.     | Red Insul.      |            | Inch             | mm    | Inch             | mm   |
| <b>M14104KW</b> | <b>M14104LW</b> | <b>M14104RW</b> | 4          | 0.384            | 9.75  | 0.050            | 1.27 |
| <b>M14105KW</b> | <b>M14105LW</b> | <b>M14105RW</b> | 5          | 0.428            | 10.87 | 0.055            | 1.39 |
| <b>M14107KW</b> | <b>M14107LW</b> | <b>M14107RW</b> | 7          | 0.483            | 12.26 | 0.065            | 1.65 |
| <b>M14112KW</b> | <b>M14112LW</b> | <b>M14112RW</b> | 12         | 0.615            | 15.62 | 0.065            | 1.65 |
| <b>M14125KW</b> | <b>M14125LW</b> | <b>M14125RW</b> | 25         | 0.887            | 22.52 | 0.085            | 2.15 |

### 12 AWG (3.31 mm²)

Stranding: 65/30 (65 x 0.25 mm)  
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No.        |                 |                 | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|-----------------|-----------------|------------|------------------|-------|------------------|------|
| Black Insul.    | Blue Insul.     | Red Insul.      |            | Inch             | mm    | Inch             | mm   |
| <b>M12104KW</b> | <b>M12104LW</b> | <b>M12104RW</b> | 4          | 0.44             | 11.17 | 0.055            | 1.39 |
| <b>M12105KW</b> | <b>M12105LW</b> | <b>M12105RW</b> | 5          | 0.499            | 12.67 | 0.065            | 1.65 |
| <b>M12107KW</b> | <b>M12107LW</b> | <b>M12107RW</b> | 7          | 0.540            | 13.71 | 0.065            | 1.65 |

### 10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.10 mm) nylon

| Part No.        |                 |                 | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|-----------------|-----------------|------------|------------------|-------|------------------|------|
| Black Insul.    | Blue Insul.     | Red Insul.      |            | Inch             | mm    | Inch             | mm   |
| <b>M10104KW</b> | <b>M10104LW</b> | <b>M10104RW</b> | 4          | 0.549            | 13.94 | 0.065            | 1.65 |
| <b>M10105KW</b> | <b>M10105LW</b> | <b>M10105RW</b> | 5          | 0.600            | 15.24 | 0.065            | 1.65 |
| <b>M10107KW</b> | <b>M10107LW</b> | <b>M10107RW</b> | 7          | 0.652            | 16.56 | 0.065            | 1.65 |

### 8 AWG (8.52 mm²)

Stranding: 168/30 (168 x 0.25 mm)  
Insulation thickness: 0.032 (0.81 mm) PVC/0.006 (0.15 mm) nylon

| Part No.        |                 |                 | Conductors | Nominal Diameter |       | Jacket Thickness |      |
|-----------------|-----------------|-----------------|------------|------------------|-------|------------------|------|
| Black Insul.    | Blue Insul.     | Red Insul.      |            | Inch             | mm    | Inch             | mm   |
| <b>M08104KW</b> | <b>M08104LW</b> | <b>M08104RW</b> | 4          | 0.724            | 18.38 | 0.065            | 1.65 |
| <b>M08105KW</b> | <b>M08105LW</b> | <b>M08105RW</b> | 5          | 0.795            | 20.19 | 0.065            | 1.65 |

 **LAPP Tannehill**

800.633.6339

[www.lapptannehill.com](http://www.lapptannehill.com)



\*Red insulation: AC circuits operating at less than line voltage  
Blue insulation: DC circuits operating at less than line voltage  
Black insulation: AC circuits operating at less than line voltage