



**Product:** [77607W](#)

MachFlex™, 7+G C #16 Str BC, PVC Ins, PVC Jkt, AWM 2587

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## Product Description

MachFlex™ for High Flex, 7+G Conductor 16AWG (168(7x24)x38) Bare Copper, PVC Insulation, PVC Outer Jacket, AWM 2587

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material         | No. of Conductors |
|-----|-----------|------------------|-------------------|
| 16  | 168x38    | BC - Bare Copper | 6                 |
| 16  |           | BC - Bare Copper | 1                 |

Conductor Count: 7

#### Insulation

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.111 in         | 0.022 in               |
| PVC - Polyvinyl Chloride |                  |                        |

#### Color Chart

| Color            |
|------------------|
| Red and Numbered |

#### Outer Shield Material

| Type      | Material  |
|-----------|-----------|
| No Shield | No Shield |

#### Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.478 in         | 0.040 in               |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 4.1 Ohm/1000ft        |

#### Capacitance

| Nom. Capacitance Conductor to Conductor |
|---|
| 34 pF/ft                                |

#### Inductance

| Nominal Inductance |
|--------------------|
| .18 µH/ft          |

#### Voltage

| UL Voltage Rating |
|-------------------|
| 600 V             |

## Temperature Range

|                       |  |
|-----------------------|--|
| UL Temp Rating:       | 90°C   |
| Operating Temp Range: | -40°C To 90°C (Static), -5°C To 90°C (Flexing) |

## Mechanical Characteristics

|                                       |                   |
|---------------------------------------|-------------------|
| Oil Resistance:                       | Yes               |
| Flex Cycle Rating:                    | 14 Million Cycles |
| Bulk Cable Weight:                    | 320 lbs/1000ft    |
| Max. Pull Tension:                    | 148 lbs           |
| Min Bend Radius (Continuous Flexing): | 3.8 in            |
| Min Bend Radius/Minor Axis:           | 3.8 in            |

## Standards

|                          |                                |
|--------------------------|--------------------------------|
| UL AWM Style Compliance: | AWM 2587, AWM 10012            |
| CSA AWM Compliance:      | AWM I/II A/B                   |
| Other Compliance:        | VDE 0472, Section 803 Oil Test |

## Applicable Environmental and Other Programs

|                                    |                               |
|------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):     | Yes                           |
| EU Directive 2003/11/EC (BFR):     | Yes                           |
| EU Directive 2011/65/EU (ROHS II): | Yes                           |
| EU Directive 2012/19/EU (WEEE):    | Yes                           |
| EU Directive 2015/863/EU:          | Yes                           |
| EU Directive Compliance:           | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                        | Yes                           |

## Flammability, LS0H, Toxicity Testing

|                    |           |
|--------------------|-----------|
| CSA Flammability:  | FT1       |
| UL voltage rating: | 600 V RMS |

## Part Number

### Variants

| Item #        | Color | Putup Type | UPC          |
|---------------|-------|------------|--------------|
| 77607W 010100 | Black | Reel       | 612825412229 |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.57 Revision Date: 02-16-2021 |
|----------------------|---|

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