



Product: [77603WS](#)

MachFlex™, 3+G C #16 Str BC, PVC Ins, OA TC Brd, PVC Jkt, PVC Jkt, AWM 2587

 Request Sample

Product Description

MachFlex™ for High Flex, 3+G Conductor 16AWG (168(7x24)x38) Bare Copper, PVC Insulation, Overall Tinned Copper Braid(85%) Shield, PVC Inner Jacket, PVC Outer Jacket, AWM 2587

Technical Specifications

Physical Characteristics (Overall)

Conductor

| Element   | AWG | Stranding | Material         | No. of Conductors |
|-----------|-----|-----------|------------------|-------------------|
| Conductor | 16  | 168x38    | BC - Bare Copper | 2                 |
| Ground    | 16  | 168x38    | BC - Bare Copper | 1                 |

Conductor Count: 3

Insulation

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

Color Chart

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

Inner Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.321 in         | 0.030 in               |

Outer Shield Material

| Type  | Material           | Coverage [%] |
|-------|--------------------|--------------|
| Braid | Tinned Copper (TC) | 85%          |

Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.419 in         | 0.035 in               |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 4.0 Ohm/1000ft        | 3.2 Ohm/1000ft           |

Capacitance

| Nom. Capacitance Conductor to Conductor |
|-----------------------------------------|
| 51 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:                    | 214 lbs/1000ft    |
| Max. Pull Tension:                    | 71 lbs            |
| Min Bend Radius (Continuous Flexing): | 3.4 in            |
| Min Bend Radius/Minor Axis:           | 3.4 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          |
|----------------|-------|------------|--------------|
| 77603WS 010100 | Black | Reel       | 612825412151 |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.56 Revision Date: 04-28-2020 |
|----------------------|-------------------------------------------------|

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#### Как с нами связаться

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