

# Product: 73403W

MachFlex™, 3 C #14 Str BC, PVC Ins, PVC Jkt, AWM 2587 CLASS K

Request Sample

## Product Description

MachFlex™ for Moderate Flex, 3 Conductor 14AWG (41x30) Bare Copper, PVC Insulation, PVC Outer Jacket, AWM 2587 CLASS K

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | Robotics, Robot, Continuous Flex |

### Construction Details

**Conductor**

| Element | No. of Elements | Size | Stranding | Material |
|---|---|---|---|---|
| Conductor(s) | 2 | 14 | 41x30 | BC - Bare Copper |
| Ground | 1 | 14 | 41x30 | BC - Bare Copper |

**Insulation**

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---|---|---|---|---|
| Conductor(s) | PVC - Polyvinyl Chloride | 0.022 in (0.56 mm) | 0.118 in (3.00 mm) | Black and Numbered |
| Ground | PVC - Polyvinyl Chloride | 0.022 in (0.56 mm) | 0.118 in (3.00 mm) | Yellow/Green |

**Outer Shield**

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

**Outer Jacket**

| Separator | Material | Nom. Thickness | Nom. Diameter |
|---|---|---|---|
| Paper Tape | PVC - Polyvinyl Chloride | 0.045 in (1.1 mm) | 0.351 in |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.351 in (8.92 mm) |

### Electrical Characteristics

**Electricals**

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Max. Current |
|---|---|---|---|
| Conductor(s) | 2.6 Ohm/1000ft | 36 pF/ft (120 pF/m) | 25 Amps per Conductor at 30ºC |
| Ground Wire | 2.62 Ohm/1000ft (8.60 Ohm/km) | | |

**Voltage**

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

### Mechanical Characteristics

**Temperature**

| UL Temperature | Operating |
|---|---|
| 90°C | -40°C To 90°C (Static), -5°C To 90°C (Flexing) |

**Bend Radius**

| Flexing Min. |
| --- |
| 1.8 in (46 mm) |

| | |
| --- | --- |
| Max. Pull Tension: | 97 lbs (44 kg) |
| Bulk Cable Weight: | 150 lbs/1000ft |

## Standards and Compliance

| | |
| --- | --- |
| Environmental Suitability: | Oil Resistance |
| AWM Compliance: | AWM 2587, AWM I/II A/B |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

## History

| | |
| --- | --- |
| Update and Revision: | Revision Number: 0.257 Revision Date: 01-10-2024 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | UPC |
| --- | --- | --- | --- |
| 73403W 008100 | Gray | Reel | 612825409434 |
| 73403W 0081000 | Gray | Reel | 612825409441 |
| 73403W 008500 | Gray | Reel | 612825409458 |

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