



Product: [73409W](#)

MachFlex™, 9 C #14 Str BC, PVC Ins, PVC Jkt, AWM 2587 CLASS K

[Request Sample](#)

Product Description

MachFlex™ for Moderate Flex, 9 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) | 8               | 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 | 0.063 in (1.6 mm) | 0.609 in      |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.609 in (15.5 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)           | 18 Amps per Conductor at 30°C |
| 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.   |
|----------------|
| 3.0 in (76 mm) |

|                    |                  |
|--------------------|------------------|
| Max. Pull Tension: | 290 lbs (130 kg) |
| Bulk Cable Weight: | 500 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: 0.141 Revision Date: 05-31-2024 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color | Putup Type | UPC          |
|---------------|-------|------------|--------------|
| 73409W 008100 | Gray  | Reel       | 612825409625 |
| 73409W 008500 | Gray  | Reel       | 612825409632 |

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