



Product: [73205W](#)

MachFlex™, 5 C #12 Str BC, PVC Ins, PVC Jkt, AWM 2587 CLASS K

[Request Sample](#)

Product Description

MachFlex™ for Moderate Flex, 5 Conductor 12AWG (65x30) 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) | 4 | 12 | 65x30 | BC - Bare Copper |
| Ground | 1 | 12 | 65x30 | BC - Bare Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|--------------------------|--------------------|--------------------------|--------------------|
| Conductor(s) | PVC - Polyvinyl Chloride | 0.022 in (0.56 mm) | 0.137 in (3.48 mm) | Black and Numbered |
| Ground | PVC - Polyvinyl Chloride | 0.022 in (0.56 mm) | 0.137 in (3.48 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 | 0.086 in (2.2 mm) | 0.553 in |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.553 in (14.0 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Max. Current |
|--------------|-------------------------------|-------------------------------|-------------------------------|
| Conductor(s) | 1.65 Ohm/1000ft | 39 pF/ft (130 pF/m) | 24 Amps per Conductor at 30°C |
| Ground Wire | 1.65 Ohm/1000ft (5.41 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. |
|----------------|
| 2.8 in (71 mm) |

| | |
|--------------------|------------------|
| Max. Pull Tension: | 255 lbs (116 kg) |
| Bulk Cable Weight: | 307 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 |
|----------------|-------|------------|--------------|
| 73205W 008100 | Gray | Reel | 612825409359 |
| 73205W 0081000 | Gray | Reel | 612825409366 |
| 73205W 008500 | Gray | Reel | 612825409373 |

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