



Product: [73205W](#)

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

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### 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
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#### 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
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**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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