



**Product:** [73405WS](#)

MachFlex™, 5 C #14 Str BC, PVC Ins, OA TC Brd, PVC Jkt, PVC Jkt, AWM 2587 CLASS K

[Request Sample](#)

### Product Description

MachFlex™ for Moderate Flex, 5 Conductor 14AWG (41x30) Bare Copper, PVC Insulation, Overall Tinned Copper Braid(85%) Shield, PVC Inner Jacket, 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	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	Coverage
Braid	Tinned Copper (TC)	85%

##### Inner Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape	PVC - Polyvinyl Chloride	.035 in (0.89 mm)	.399 in (10.1 mm)

##### Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape	PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.537 in

Overall Cable Diameter (Nominal): 0.537 in (13.6 mm)

#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	2.6 Ohm/1000ft	57 pF/ft (190 pF/m)	20 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.
4.3 in (110 mm)

Max. Pull Tension:	175 lbs (79.4 kg)
Bulk Cable Weight:	400 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: 0.142 Revision Date: 05-31-2024
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## Part Numbers

### Variants

Item #	Color	Putup Type	UPC
73405WS 008100	Gray	Reel	612825409571
73405WS 008500	Gray	Reel	612825409588

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