

Product: [73603WS](#)

MachFlex™, 3 C #16 Str BC, PVC Ins, OA TC Brd, PVC Jkt, PVC Jkt, AWM 2587 CLASS K
[Request Sample](#)
Product Description

MachFlex™ for Moderate Flex, 3 Conductor 16AWG (26x30) 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)	2	16	26x30	BC - Bare Copper
Ground	1	16	26x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.104 in (2.64 mm)	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.104 in (2.64 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	.030 in (0.76 mm)	.290 in (7.37 mm)

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape	PVC - Polyvinyl Chloride	0.035 in (0.89 mm)	0.388 in

Overall Cable Diameter (Nominal): 0.388 in (9.86 mm)

Electrical Characteristics
Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	4.1 Ohm/1000ft	51 pF/ft (170 pF/m)	18 Amps per Conductor at 30°C
Ground Wire	4.18 Ohm/1000ft (13.7 Ohm/km)		

Voltage

UL Voltage Rating	Voltage Rating
600 V (AWM 2587)	600 V (CSA AWM I/II A/B)

Mechanical Characteristics
Temperature

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

Bend Radius

Flexing Min.

3.1 in (79 mm)

Max. Pull Tension: 70 lbs (32 kg)

Bulk Cable Weight: 194 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), 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: 0.143 Revision Date: 05-31-2024

Part Numbers

Variants

Item #	Color	Putup Type	UPC
73603WS 008100	Gray	Reel	612825409731
73603WS 0081000	Gray	Reel	612825409748
73603WS 008500	Gray	Reel	612825409755

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