



Product: [73203WS](#)

MachFlex™, 3 C #12 AWG 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 12 AWGAWG (65x30) 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, Robots, Continuous Flex
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	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	Coverage
Braid	Tinned Copper (TC)	85%

Inner Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape	PVC - Polyvinyl Chloride	.040 in (1.0 mm)	.382 in (9.70 mm)

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape	PVC - Polyvinyl Chloride	0.060 in (1.5 mm)	0.530 in

Overall Cable Diameter (Nominal):	0.530 in (13.5 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	1.65 Ohm/1000ft	64 pF/ft (210 pF/m)	30 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.
4.2 in (110 mm)

Max. Pull Tension:	163 lbs (73.9 kg)
Bulk Cable Weight:	191 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: 0.256 Revision Date: 09-27-2023
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Part Numbers

Variants

Item #	Color	Putup Type	UPC
73203WS 008100	Gray	Reel	612825409267
73203WS 0081000	Gray	Reel	612825409274
73203WS 008500	Gray	Reel	612825409281

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