



Product: [77004W](#)

MachFlex™, 4+G C #20 Str BC, PVC Ins, PVC Jkt, AWM 2587

Request Sample

Product Description

MachFlex™ for High Flex, 4+G Conductor 20AWG (63(7x9)x38) Bare Copper, PVC Insulation, PVC Outer Jacket, AWM 2587

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)	3	20	63x38	BC - Bare Copper
Ground	1	20	63x38	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.084 in (2.1 mm)	Red and Numbered
Ground	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.084 in (2.1 mm)	Yellow/Green/Green

Outer Shield

Shield Type	Material
No Shield	No Shield

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Tissue Tape	PVC - Polyvinyl Chloride	0.035 in (0.89 mm)	0.297 in

Overall Cable Diameter (Nominal): 0.297 in (7.54 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	10.9 Ohm/1000ft	28 pF/ft (92 pF/m)	6.4 Amps per Conductor at 30°C
Ground Wire	10.6 Ohm/1000ft (34.8 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.

2.4 in (61 mm)

Max. Pull Tension:	32 lbs (15 kg)
Bulk Cable Weight:	120 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Oil Resistance
AWM Compliance:	AWM 2587, AWM 10012, 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: 0.140 Revision Date: 03-27-2024
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Part Numbers**Variants**

Item #	Color	Putup Type	UPC
77004W 010100	Black	Reel	612825412014
77004W 010500	Black	Reel	612825412021

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