



Product: [77407W](#)

MachFlex™, 7+G C #14 Str BC, PVC Ins, PVC Jkt, AWM 2587

Request Sample

Product Description

MachFlex™ for High Flex, 7+G Conductor 14AWG (266(7x38)x38) Bare Copper, PVC Insulation, PVC Outer Jacket, AWM 2587

Technical Specifications

Product Overview

Suitable Applications:	Robotics, Robot, Continuous Flex
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	14	266x38	BC - Bare Copper	6
Ground	14	266x38	BC - Bare Copper	1

Conductor Count:	7
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Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	PVC - Polyvinyl Chloride	0.124 in	0.022 in
Ground	PVC - Polyvinyl Chloride		

Color Chart

Color
Red and Numbered

Outer Shield

Type	Material
No Shield	No Shield

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.582 in	0.070 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
2.6 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
35 pF/ft

Inductance

Nominal Inductance
.17 µH/ft

Voltage

UL Voltage Rating
600 V

Temperature Range

UL Temp Rating:	90°C
Operating Temperature Range:	-40°C To 90°C (Static), -5°C To 90°C (Flexing)

Mechanical Characteristics

Oil Resistance:	Yes
Flex Cycle Rating:	14 Million Cycles
Bulk Cable Weight:	420 lbs/1000ft
Max. Pull Tension:	234 lbs
Min. Bend Radius (Continuous Flexing):	4.7 in
Min. Bend Radius/Minor Axis:	4.7 in

Standards

UL AWM Style Compliance:	AWM 2587, AWM 10012
CSA AWM Compliance:	AWM I/II A/B

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Flammability, LS0H, Toxicity Testing

CSA Flammability:	FT1
UL voltage rating:	600 V RMS

Related Part Numbers

Variants

Item #	Color	Put-Up Type	UPC
77407W 010100	Black	Reel	612825412137

History

Update and Revision:	Revision Number: 0.137 Revision Date: 03-27-2024
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