



Product: [73009W](#)

MachFlex™, 9 C #20 Str BC, PVC Ins, PVC Jkt, AWM 2587 CLASS K

[Request Sample](#)

Product Description

MachFlex™ for Moderate Flex, 9 Conductor 20AWG (10x30) Bare Copper, PVC Insulation, PVC Outer Jacket, AWM 2587 CLASS K

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)	20	10x30	BC - Bare Copper	8
Ground	20	10x30	BC - Bare Copper	1

Conductor Count:	9
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Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	PVC - Polyvinyl Chloride	0.081 in	0.022 in
Ground	PVC - Polyvinyl Chloride		

Color Chart

Color
Black and Numbered

Outer Shield

Type	Material
No Shield	No Shield

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.416 in	0.040 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
10.7 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
28 pF/ft

Inductance

Nominal Inductance
.210 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:	1 Million Cycles
Bulk Cable Weight:	186 lbs/1000ft
Max. Pull Tension:	71 lbs
Min. Bend Radius (Continuous Flexing):	2.1 in
Min. Bend Radius/Minor Axis:	2.1 in

Standards

UL AWM Style Compliance:	AWM 2587
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, LSOH, Toxicity Testing

CSA Flammability:	FT1
UL voltage rating:	600 V RMS

Related Part Numbers

Variants

Item #	Color	Put-Up Type	UPC
73009W 008100	Gray	Reel	612825409144
73009W 0081000	Gray	Reel	612825409151
73009W 008500	Gray	Reel	612825409168

History

Update and Revision:	Revision Number: 0.135 Revision Date: 03-27-2024
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