



Product: <u>77005W</u> ☑

MachFlex™, 5+G C #20 Str BC, PVC Ins, PVC Jkt, AWM 2587

Request Sample

Product Description

MachFlex™ for High Flex, 5+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	

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	20	63x38	BC - Bare Copper	4
Ground	20	63x38	BC - Bare Copper	1
Conductor Count:		5		

Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	PVC - Polyvinyl Chloride	0.084 in	0.022 in
Ground	PVC - Polyvinyl Chloride		

Color Chart



Outer Shield

Type	Material	
No Shield	No Shield	

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.323 in	0.035 in

Electrical Characteristics

Conductor DCR



Capacitance

Nom. Capacitance Conductor to Conductor 28 pF/ft

Inductance

Nominal Inductance

Voltage



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:	160 lbs/1000ft
Max. Pull Tension:	40 lbs
Min. Bend Radius (Continuous Flexing):	2.6 in
Min. Bend Radius/Minor Axis:	2.6 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
77005W 010100	Black	Reel	612825412052
77005W 010500	Black	Reel	612825412069

History

Update and Revision: Revision Number: 0.135 Revision Date: 05-31-2024

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