



Product: [77003W](#)

MachFlex™, 3+1G C #20 Str BC, PVC Ins, PVC Jkt, AWM 2587

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Product Description

MachFlex™ for High Flex, 3+1G Conductor 20AWG (63(7x9)x38) Bare Copper, PVC Insulation, PVC Outer Jacket, AWM 2587

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
20	63x38	BC - Bare Copper	2
20		BC - Bare Copper	1

Conductor Count: 3

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.084 in	0.022 in
PVC - Polyvinyl Chloride		

Color Chart

Color
Red and Numbered

Outer Shield Material

Type	Material
No Shield	No Shield

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.272 in	0.035 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
10.9 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
28 pF/ft

Inductance

Nominal Inductance
.20 µH/ft

Voltage

UL Voltage Rating
600 V

Temperature Range

UL Temp Rating:	90°C
Operating Temp 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:	100 lbs/1000ft
Max. Pull Tension:	23.8 lbs
Min Bend Radius (Continuous Flexing):	2.2 in
Min Bend Radius/Minor Axis:	2.2 in

Standards

UL AWM Style Compliance:	AWM 2587, AWM 10012
CSA AWM Compliance:	AWM I/II A/B
Other Compliance:	VDE 0472, Section 803 Oil Test

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 II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	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

Part Number

Variants

Item #	Color	Putup Type	UPC
77003W 010100	Black	Reel	612825411987

History

Update and Revision:	Revision Number: 0.57 Revision Date: 02-16-2021
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