



Product: [7102W](#)

MachFlex™, 3+1G C #20 Str BC, PVC Ins, TPE Jkt, PLTC

 Request Sample

Product Description

MachFlex™ for High Flex, 3+1G Conductor 20AWG (74x38) Bare Copper, PVC Insulation, TPE Outer Jacket, PLTC

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
20	74x38	BC - Bare Copper	3
20		BC - Bare Copper	

Conductor Count: 4

Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.015 in

Color Chart

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3
4	Green/Yellow

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.256 in	0.037 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
8.8 Ohm/1000ft

Voltage

UL Voltage Rating
600 V RMS
300 V RMS

Temperature Range

UL Temp Rating:	90°C
Operating Temp Range:	-50°C (-5°C Flexing) To 90°C

Other Temp Range:	Flexing: -5°C To +90 °C
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Mechanical Characteristics

Oil Resistance:	Yes
Flex Cycle Rating:	10 Million Flexes
Bulk Cable Weight:	49 lbs/1000ft
Max. Pull Tension:	59 lbs
Min Bend Radius (Continuous Flexing):	2.6 in

Standards

NEC/(UL) Compliance:	TC
UL AWM Style Compliance:	20327
CSA AWM Compliance:	AWM I/II A/B

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/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 RoHS Compliance Date (yyyy-mm-dd):	2005-10-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Non-Halogenated:	No
Suitability - Oil Resistance:	Yes - Oil Res II
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
7102W 003250	Orange	Reel	250 ft	612825181941
7102W 0031000	Orange	Reel	1,000 ft	612825181934
7102W 0035000	Orange	Reel	5,000 ft	612825181958

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.287 Revision Date: 06-24-2020
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