



**Product:** [7102W](#)

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

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## Product Description

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

## Technical Specifications

### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	3	20 AWG	74x38	BC - Bare Copper
Ground Wire	1	20 AWG	74x38	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.074 in (1.9 mm)	Black and Numbered
Ground Wire	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.074 in (1.9 mm)	Green/Yellow

#### Outer Shield

Material
No Shield

#### Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
non-Woven Tape	TPE - Thermoplastic Elastomer	0.037 in (0.94 mm)	0.256 in

Overall Cable Diameter (Nominal): 0.256 in

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	10.7 Ohm/1000ft	9 Amps per Conductor at 30°C
Ground Wire	10.7 Ohm/1000ft (35.1 Ohm/km)	14.4 Amps per Conductor at 30°C

#### Voltage

UL Voltage Rating	Voltage Rating
300 V	600 V

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
UL : 90°C, AWM 20327 : 105°C	-40°C To 105°C

#### Bend Radius

Stationary Min.	Installation Min.
2.56 in (65.0 mm)	2.56 in

Max. Pull Tension: 50.4 lbs

Bulk Cable Weight:	40 lbs/1000ft
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### Standards and Compliance

Environmental Suitability:	Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading, FT2, IEEE 1202 FT4
NEC / UL Compliance:	Article 725, PLTC
AWM Compliance:	UL AWM Style 20327, AWM I/II A/B
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

### History

Update and Revision:	Revision Number: 0.371 Revision Date: 12-20-2021
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### 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

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