



## Product: [7101W](#)

MachFlex™, 2+1G C #20 Str BC, PVC Ins, TPE Jkt, PLTC

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### Product Description

MachFlex™ for High Flex, 2+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)	2	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)	0.237 in

Overall Cable Diameter (Nominal): 0.237 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.
2.37 in (60.2 mm)	2.37 in

Max. Pull Tension: 37.8 lbs (17.1 kg)

Bulk Cable Weight: 34 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 725, PLTC
AWM Compliance:	AWM 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: 0.377 Revision Date: 05-05-2023

## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
7101W 003250	Orange	Reel	250 ft	612825181910
7101W 0031000	Orange	Reel	1,000 ft	612825181903
7101W 0035000	Orange	Reel	5,000 ft	612825181927

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