



Product: 7401W ☑

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

# Request Sample

# **Product Description**

MachFlex™ for High Flex, 2+1G Conductor 20AWG (19x32) Bare Copper, PVC Insulation, TPE Outer Jacket, PLTC

# **Technical Specifications**

## **Product Overview**

Suitable Applications:	Robotics, Robot, Continuous Flex

## **Construction Details**

#### Conductor

Element	Element No. of Elements Size		Stranding	Material	
Conductor(s)	2	20 AWG	19x32	BC - Bare Copper	
Ground Wire	d Wire 1		19x32	BC - Bare Copper	

## Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.066 in (1.7 mm)	Black and Numbered
Ground Wire	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.066 in (1.7 mm)	Green/Yellow

## **Outer Shield**



## **Outer Jacket**

	Separator	Material	Nom. Thickness	Nom. Diameter
r	non-Woven Tape	TPE - Thermoplastic Elastomer	0.037 in (0.94 mm)	0.221 in
Overall Cable Diameter (Nominal): 0.221 in				

## **Electrical Characteristics**

## Electricals

Element	Nom. Conductor DCR	Max. Current  9 Amps per Conductor at 30°C	
Conductor(s)	10.7 Ohm/1000ft		
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.
2.21 in (56.1 mm)	2.21 in

Max. Pull Tension:	45 lbs (20 kg)	
Bulk Cable Weight:	29 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: 0.372 Revision Date: 01-10-2024

## **Part Numbers**

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7401W 060250	Chrome	Reel	250 ft	612825185284	С
7401W 0601000	Chrome	Reel	1,000 ft	612825185277	С
7401W 0605000	Chrome	Reel	5,000 ft	612825185291	

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