



# Product: <u>7407W</u> ☑

MachFlex™, 17+1G C #20 Str BC, PVC Ins, TPE Jkt, PLTC

😭 Request Sample

## **Product Description**

MachFlex™ for High Flex, 17+1G Conductor 20AWG (19x32) Bare Copper, PVC Insulation, TPE Outer Jacket, PLTC

## **Technical Specifications**

#### Product Overview

Suitable Appli	cations:	Roboti	cs, Robot, Co	ontinuous Flex		
Constructi	on Details					
onductor						
Element	No. of Elements	Size	Stranding	Material		
Conductor(s)	17	20 AWG	19x32	BC - Bare Copper		
Ground Wire	1	20 AWG	19x32	BC - Bare Copper	1	
sulation					4	
Element	Material		Nom. Thickn	ess Nom. Insula	tion Diameter	Color Code

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

Material

No Shield

## Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter		
non-Woven Tape	TPE - Thermoplastic Elastomer	0.053 in (1.3 mm)	0.441 in		
Overall Cable Diameter (Nominal): 0.441 in					

#### **Electrical Characteristics**

#### Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	10.8 Ohm/1000ft	5.4 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.
4.41 in (112 mm)	4.41 in
Max. Pull Tension	:
Wax. Full Terision	
Bulk Cable Weigh	t:

#### **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: 0.374 Revision Date: 01-10-2024

#### **Part Numbers**

#### Variants

ltem #	Color	Putup Type	Length	UPC	Footnote
7407W 060250	Chrome	Reel	250 ft	612825185598	С
7407W 0601000	Chrome	Reel	1,000 ft	612825185581	С
7407W 0605000	Chrome	Reel	5,000 ft	612825185604	

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