




Product: [7406W](#) 

MachFlex™, 11+1G C #20 Str BC, PVC Ins, TPE Jkt, PLTC

 [Request Sample](#)

Product Description

MachFlex™ for High Flex, 11+1G Conductor 20AWG (19x32) Bare Copper, PVC Insulation, TPE Outer Jacket, PLTC

Technical Specifications

Product Overview

Suitable Applications:	Robotics, Robot, Continuous Flex
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Construction Details

Conductor

Element	Size	Stranding	Material
	20	19x32	BC - Bare Copper
Ground Wire	20	19x32	BC - Bare Copper

Insulation

Material	Nom. Thickness	Color Code
PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	Black and Numbered 1, Black and Numbered 2, Black and Numbered 3, Black and Numbered 4, Black and Numbered 5, Black and Numbered 6, Black and Numbered 7, Black and Numbered 8, Black and Numbered 9, Black and Numbered 10, Black and Numbered 11, Green/Yellow

Outer Shield

Material
No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
TPE - Thermoplastic Elastomer	0.042 in (1.1 mm)	0.363 in

Electrical Characteristics

Electricals

Nom. Conductor DCR
8.8 Ohm/1000ft (29 Ohm/km)

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C	-40°C (-5°C Flexing) To +90°C

Bend Radius

Flexing Min.
3.6 in

Max. Pull Tension:	156 lbs (70.8 kg)
Bulk Cable Weight:	82 lbs/1000ft (120 kg/km)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading, 1202
NEC / UL Compliance:	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: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7406W 060250	Chrome	Reel	250 ft	612825185550	C
7406W 0601000	Chrome	Reel	1,000 ft	612825185543	C
7406W 0605000	Chrome	Reel	5,000 ft	612825185567	

Footnote:	C - CRATE REEL PUT-UP.
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