



**Product:** [7402W](#)

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

[Request Sample](#)

## Product Description

MachFlex™ for High Flex, 3+1G Conductor 20AWG (19x32) Bare Copper, PVC Insulation, TPE Outer Jacket, PLTC

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors
20	19x32	BC - Bare Copper	3
20		BC - Bare Copper	1

Conductor Count:

#### Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.015 in

#### Color Chart

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3
4	Green/Yellow

#### Outer Shield Material

Material
No Shield

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.238 in	0.037 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
8.8 Ohm/1000ft

#### Voltage

UL Voltage Rating
300 V RMS

### Temperature Range

UL Temp Rating:	90°C
Operating Temp Range:	-40°C (-5°C Flexing) To +90°C
Other Temp Range:	Flexing: -5°C To +90 °C

## Mechanical Characteristics

Oil Resistance:	Yes
Flex Cycle Rating:	1 Million Flexes
Bulk Cable Weight:	38 lbs/1000ft
Max. Pull Tension:	52 lbs
Min Bend Radius (Continuous Flexing):	2.4 in

## Standards

NEC/(UL) Compliance:	PLTC
UL AWM Style Compliance:	20327
CSA AWM Compliance:	AWM I/II A/B

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-01
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Non-Halogenated:	No
Suitability - Oil Resistance:	Yes - Oil Res II
Suitability - Sunlight Resistance:	Yes

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
7402W 060250	Chrome	Reel	250 ft	612825185345
7402W 0601000	Chrome	Reel	1,000 ft	612825185338
7402W 0605000	Chrome	Reel	5,000 ft	612825185352

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.287 Revision Date: 03-16-2021
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