



**Product:** [7401WS](#)

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

[Request Sample](#)

### Product Description

MachFlex™ for High Flex, 2+1G Conductor 20AWG (19x32) Bare Copper, PVC Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Outer Jacket, PLTC

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

Element	AWG	Stranding	Material	No. of Conductors
	20	19x32	BC - Bare Copper	2
Ground Wire	20	19x32	BC - Bare Copper	1

Conductor Count: 3

##### 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	Green/Yellow

##### Inner Jacket

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.197 in	0.025 in

##### Outer Shield

Type	Material	Coverage [%]	Nominal Diameter
Braid	Tinned Copper (TC)	85%	0.219 in

##### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.303 in	0.042 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
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Operating Temperature 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:	56 lbs/1000ft
Max. Pull Tension:	39 lbs
Min. Bend Radius (Continuous Flexing):	3 in

## Standards

NEC/(UL) Compliance:	PLTC
UL AWM Style Compliance:	AWM 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)
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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## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
7401WS 060250	Chrome	Reel	250 ft	612825185314
7401WS 0601000	Chrome	Reel	1,000 ft	612825185307
7401WS 0605000	Chrome	Reel	5,000 ft	612825185321

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

Update and Revision:	Revision Number: 0.339 Revision Date: 05-05-2023
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