

**Product: [7403WS](#)**

**MachFlex™, 4+1G C #20 Str BC, PVC Ins, OA TC Brd, TPE Jkt, PLTC**
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**Product Description**

MachFlex™ for High Flex, 4+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	4
Ground Wire	20	19x32	BC - Bare Copper	1

Conductor Count: 5

**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	Black and Numbered 4
5	Green/Yellow

**Inner Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.233 in	0.025 in

**Outer Shield Material**

Type	Material	Coverage [%]	Nominal Diameter
Braid	TC - Tinned Copper	85 %	0.255 in

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.339 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
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:	76 lbs/1000ft
Max Recommended Pulling Tension:	65 lbs
Min Bend Radius (Continuous Flexing):	2.6 in

## Standards

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

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	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
7403WS 060250	Chrome	Reel	250 ft	612825185413
7403WS 0601000	Chrome	Reel	1,000 ft	612825185406
7403WS 0605000	Chrome	Reel	5,000 ft	612825185420

Footnote: C - CRATE REEL PUT-UP.

## History

Update and Revision:	Revision Number: 0.292 Revision Date: 04-28-2020
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