



Product: [7401WS](#)

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

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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
UV 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, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	IEEE 1202 FT4
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: 0.340 Revision Date: 02-03-2025
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