



Product: [7404WS](#)

MachFlex™, 6+1G C #20 Str BC, PVC Ins, OA TC Brd, TPE Jkt, PLTC

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Product Description

MachFlex™ for High Flex, 6+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	6
Ground Wire	20	19x32	BC - Bare Copper	1

Conductor Count: 7

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	Black and Numbered 5
6	Black and Numbered 6
7	Green/Yellow

Color Chart 3

Number	Color
60	Chrome

Inner Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.275 in	0.025 in

Outer Shield Material

Type	Material	Coverage [%]	Nominal Diameter
Braid	TC - Tinned Copper	85 %	0.303 in

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.409 in	0.053 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR

10.5 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:	68 lbs/1000ft
Max Recommended Pulling Tension:	91 lbs
Min Bend Radius (Continuous Flexing):	5.2 in
Min Bend Radius/Minor Axis:	3.5 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 - Oil Resistance:	Yes
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
7404WS 060250	Chrome	Reel	250 ft	612825185475
7404WS 0601000	Chrome	Reel	1,000 ft	612825185468
7404WS 0605000	Chrome	Reel	5,000 ft	612825185482

Footnote:	C - CRATE REEL PUT-UP.
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History

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