



**Product:** [7106WS](#)

MachFlex™, 11+1G C #20 Str BC, PVC Ins, OA TC Brd, TPE Jkt, TPE Jkt, PLTC

[Request Sample](#)

**Product Description**

MachFlex™ for High Flex, 11+1G Conductor 20AWG (74x38) Bare Copper, PVC Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Inner Jacket, TPE Outer Jacket, PLTC

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Conductors
20	74x38	BC - Bare Copper	11
20		BC - Bare Copper	

Conductor Count: 12

**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	Black and Numbered 7
8	Black and Numbered 8
9	Black and Numbered 9
10	Black and Numbered 10
11	Black and Numbered 11
12	Green/Yellow

**Inner Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.361 in	0.025 in

**Outer Shield Material**

Type	Material	Coverage [%]	Nominal Diameter
Braid	Tinned Copper (TC)	85%	0.383 in

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.489 in	0.053 in

**Electrical Characteristics**

## Conductor DCR

### Nominal Conductor DCR

8.8 Ohm/1000ft

## Voltage

### UL Voltage Rating

300 V RMS

600 V RMS

## Temperature Range

UL Temp Rating:	90°C
Operating Temp Range:	-50°C (-5°C Flexing) To 90°C
Other Temp Range:	Flexing: -5°C To +90 °C

## Mechanical Characteristics

Oil Resistance:	Yes
Flex Cycle Rating:	10 Million Flexes
Bulk Cable Weight:	141 lbs/1000ft
Max. Pull Tension:	194 lbs
Min Bend Radius (Continuous Flexing):	4.9 in

## Standards

NEC/(UL) Compliance:	TC
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 2003/96/EC (BFR):	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, LSOH, 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
7106WS 003250	Orange	Reel	250 ft	612825182047
7106WS 0031000	Orange	Reel	1,000 ft	612825182030
7106WS 0035000	Orange	Reel	5,000 ft	612825182054

Footnote: C - CRATE REEL PUT-UP.

## History

Update and Revision:	Revision Number: 0.291 Revision Date: 09-30-2020
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