



Product: 7106WS ☑

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

Request Sample
 Requ

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

Product Overview

Suitable Applications:			Re	obotics, Robot, Contin
hysical C	hara	cteristics	(Overall)	
onductor				
Element	AWG	Stranding	Material	No. of Conductors
Element	AWG 20	Stranding 74x38	Material BC - Bare Copper	

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

Outer Shield

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

Outer Jacket

Material Nominal Diameter Nominal Wall Thickness

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 Temperature Range:	-50°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:	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:	AWM 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 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:	IEEE 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
7106WS 003250	Orange	Reel	250 ft	612825182047
7106WS 0031000	Orange	Reel	1,000 ft	612825182030

7106WS 0035000	Orange	Reel	5,000 ft	612825182054
Footnote:	Footnote:			- CRATE REEL
History				

History

Update and Revision:	Revision Number: 0.382 Revision Date: 01-10-2024

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