



Product: [7111WS](#)

MachFlex™, 3+1G C #18 Str BC, PVC-NYL Ins, TPE Jkt, TPE Jkt, 1000V WTTC, 600V TC-ER

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Product Description

MachFlex™ for High Flex, 3+1G Conductor 18AWG (105x38) Bare Copper, PVC-NYL Insulation, TPE Inner Jacket, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

Technical Specifications

Physical Characteristics (Overall)

Conductor				
Element	AWG	Stranding	Material	No. of Conductors
	18	105x38	BC - Bare Copper	3
Ground Wire	18	105x38	BC - Bare Copper	1
Conductor Count:				4

Insulation	
Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride/Nylon Skin	0.089 in

Color Chart	
Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3
4	Green/Yellow

Inner Jacket Material		
Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.269 in	0.025 in

Outer Shield Material			
Type	Material	Coverage [%]	Nominal Diameter
Braid	Tinned Copper (TC)	85%	0.297 in

Outer Jacket Material		
Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.391 in	0.047 in

Electrical Characteristics

Conductor DCR	
Nominal Conductor DCR	
5.7 Ohm/1000ft	

Voltage	
UL Voltage Rating	
1000 V RMS	
600 V RMS	

Temperature Range

UL Temp Rating:	75°C Dry, 90°C Wet
Other Temp Range:	Flexing: -5°C To +90 °C

Mechanical Characteristics

Oil Resistance:	Yes
Flex Cycle Rating:	10 Million Flexes
Bulk Cable Weight:	96 lbs/1000ft
Max. Pull Tension:	92 lbs
Min Bend Radius (Continuous Flexing):	3.9 in

Standards

NEC/(UL) Compliance:	TC-ER, WTTTC
CEC/C(UL) Compliance:	CIC, TC
UL AWM Style Compliance:	20328
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, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	1000 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
7111WS 0031000	Orange	Reel	1,000 ft	612825182184
7111WS 0035000	Orange	Reel	5,000 ft	612825182207
Footnote:			C - CRATE REEL PUT-UP.	

History

Update and Revision:	Revision Number: 0.294 Revision Date: 04-28-2020
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Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.