



Product: 7111WS ☑

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

# **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**

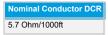
Type	Material	Coverage [%]	Nominal Diameter
Braid	Tinned Copper (TC)	85%	0.297 in

## **Outer Jacket Material**

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

# **Electrical Characteristics**

#### Conductor DCR



# Voltage



## **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, WTTC
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	

## **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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