



Product: 7117W ☑

MachFlex™, 24+1G C #18 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER

Request Sample

# **Product Description**

MachFlex™ for High Flex, 24+1G Conductor 18AWG (105x38) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

# **Technical Specifications**

## **Construction Details**

# Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	24	18 AWG	105x38	BC - Bare Copper
Ground Wire	1	18 AWG	105x38	BC - Bare Copper

#### Insulation

Elemen	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor	s) PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	0.089 in (2.3 mm)	Black and Numbered
Ground W	re PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	0.089 in (2.3 mm)	Green/Yellow

## Outer Shield

Material No Shield

#### **Outer Jacket**

Separator	Material	Nom. Thickness	Nom. Diameter
non-Woven Tape	TPE - Thermoplastic Elastomer	0.063 in (1.6 mm)	0.678 in
Overall Cable Diameter (Nominal): 0.678 in			

## **Electrical Characteristics**

#### Electricals

Element	Nom. Conductor DCR	Max. Current		
Conductor(s)	6.66 Ohm/1000ft	9 Amps per Conductor at 30°C		
Ground Wire	7.06 Ohm/1000ft (23.2 Ohm/km)	24 Amps per Conductor at 30°C		

## Voltage

UL Voltage Rating
1000 V (WTTC), 600 V (TC-ER)

## **Mechanical Characteristics**

#### Temperature

UL Temperature	Operating
UL : 90°C Dry, 75°C Wet; AWM 20328 : 105°C	-40°C To 105°C

## Bend Radius

	Stationary win.	installation win
	2.71 in (68.8 mm)	3.39 in
Ì	Max. Pull Tension:	

Bulk Cable Weight:	257 lbs/1000ft	
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#### **Standards and Compliance**

Environmental Suitability:	Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 336
AWM Compliance:	AWM 20328, AWM I/II A/B
CEC / C(UL) Compliance:	CIC, TC
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

#### History

Update and Revision:	Revision Number: 0.381 Revision Date: 05-05-2023
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## **Part Numbers**

## Variants

Item #	Color	Putup Type	Length	UPC
7117W 003250	Orange	Reel	250 ft	612825182283
7117W 0031000	Orange	Reel	1,000 ft	612825182276

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