

h	Product: <u>7410W</u> ⊠
	MachFlex™, 2+1G C #18 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER
	Request Sample

# **Product Description**

MachFlex™ for High Flex, 2+1G Conductor 18AWG (16x30) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

## **Technical Specifications**

#### Product Overview

			, , , -	ontinuous Flex		
Constructi	on Details					
onductor						
Element	No. of Elements	Size	Stranding	Material		
Conductor(s)	2	18 AWG	16x30	BC - Bare Copper		
Ground Wire	1	18 AWG	16x30	BC - Bare Copper		
nsulation						
	Μά	aterial		Nom. Thickness	Nom. Insulation Diameter	Color Code
Element						
Conductor(s)	PVC/Nylon - Poly	vinyl Chlor	ide + Nylon	0.021 in (0.53 mm)	0.089 in (2.3 mm)	Black and Numbered

# Material

No Shield

Outer Jacket					
Separator	Material	Nom. Thickness	Nom. Diameter		
non-Woven Tape	TPE - Thermoplastic Elastomer	0.047 in (1.2 mm)	0.289 in		
Overall Cable Diameter (Nominal): 0.289 in					

### **Electrical Characteristics**

#### Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	6.5 Ohm/1000ft	15 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 Min.	Installation Min.
1.15 in (29.2 mm)	1.44 in
Max. Pull Tension	: 6
Bulk Cable Weigh	t: 4

#### **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: 0.374 Revision Date: 01-10-2024

#### **Part Numbers**

#### Variants

ltem #	Color	Putup Type	Length	UPC	Footnote
7410W 060250	Chrome	Reel	250 ft	612825185710	С
7410W 0601000	Chrome	Reel	1,000 ft	612825185703	С
7410W 0605000	Chrome	Reel	5,000 ft	612825185727	

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