

M	Product: <u>7413W</u> ⊠					
	MachFlex™, 6+1G C #18 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER					

## **Product Description**

MachFlex™ for High Flex, 6+1G Conductor 18AWG (16x30) 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)	6	18 AWG	16x30	BC - Bare Cop	per			
Ground Wire	1	18 AWG	16x30	BC - Bare Copp	ber			
nsulation								
Element 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 Wire PVC/Nylon - Polyvinyl Chloride + Nylon 0.021 in (0.53 mm) 0.089 in (2.3 mm) Green/Yellow								
Ground Wire	PVC/Nyion - Polyvinyi	Chioride -	+ Nylon U.	021 in (0.53 mm)	0.089 in (2.3 mm)	Green/Yellow		
Outer Shield								
Material								
No Shield								
No officia								
Outer Jacket								
Separator	Materi	al	Nom.	Thickness Non	n. Diameter			
non-Woven Ta	ape TPE - Thermoplas	tic Elastor	mer 0.047	in (1.2 mm) 0.39	) in			
Overall Cable	Diameter (Nominal): 0	.39 in						
Electrical (	Characteristics							
Electricals								
Element	Nom. Conductor	DCR		Max. Current				
Conductor(s)	6.5 Ohm/1000ft		10.5 Amp	os per Conductor	at 30°C			
Ground Wire	7.06 Ohm/1000ft (23.2	2 Ohm/km)	24 Amps	per Conductor at	30°C			
/oltage								
-	age Rating							
1000 V (WTTC), 600 V (TC-ER)								
loobonioo	I Characteristics							
nechanica	Il Characteristics	•						
<b>Femperature</b>								
UL Temperature Operating								
UL : 90°C Dry, 75°C Wet; AWM 20328 : 105°C -40°C To 105°C								
02.30 C Diy	, 10 0 1101, AVIN 2002	0.1000	-10 0 10					
Bend Radius								
Stationary Min. Installation Min.								
1.56 in (39.6 mm) 1.95 in								
Max. Pull Tension: 145.6 lbs (66.04 kg)								
max. I uli Tell		-5.0 105 (0	55.04 kg)					

Bulk Cable Weight:	Bulk	Cable	Weight:	
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87 lbs/1000ft

**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: 0.369 Revision Date: 05-05-2023

### **Part Numbers**

### Variants

Item #	Color	Putup Type	Length	UPC
7413W 060250	Chrome	Reel	250 ft	612825185864
7413W 0601000	Chrome	Reel	1,000 ft	612825185857

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