

	Product: <u>7414W</u> 🖄						
	MachFlex™, 8+1G C #18 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER						
	🛱 Request Sample						

Product Description

MachFlex™ for High Flex, 8+1G Conductor 18AWG (16X30) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

Technical Specifications

Product Overview

onductor						
Element	No. of Elements	Size	Stranding	Material		
Conductor(s)	8	18 AWG	16x30	BC - Bare Copper	1	
Ground Wire	1	18 AWG	16x30	BC - Bare Copper		
-						
				Nom Thickness	New Insulation Dismotor	Color Code
Element		aterial	ida i Nulan	Nom. Thickness	Nom. Insulation Diameter	
nsulation Element Conductor(s) Ground Wire	PVC/Nylon - Poly	vinyl Chlor			0.089 in (2.3 mm)	Color Code Black and Numbered Green/Yellow

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	
TPE - Thermoplastic Elastomer	0.047 in (1.2 mm)	0.451 in	
Overall Cable Diameter (Nomina			

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current	
Conductor(s)	6.5 Ohm/1000ft	10.5 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

St	ationary Min.	Installation Min
1.8	80 in (45.7 mm)	2.25 in
Ma	ax. Pull Tension:	
Bu	lk Cable Weight	:

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: 0.377 Revision Date: 01-10-2024

Part Numbers

Variants

ltem #	Color	Putup Type	Length	UPC	Footnote
7414W 060250	Chrome	Reel	250 ft	612825185918	С
7414W 0601000	Chrome	Reel	1,000 ft	612825185901	С

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