

<u>é</u>	Product: <u>7125W</u> ☑					
	MachFlex™, 6+1G C #16 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER					
	🛱 Request Sample					

Product Description

MachFlex™ for High Flex, 6+1G Conductor 16AWG (168(7x24) x38) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

Technical Specifications

Product Overview

Suitable Applications:		Robotic	Robotics, Robot, Continuous Flex				
Constructi	on Details						
onductor	onductor						
Element	No. of Elements	Size	Stranding	Material			
Conductor(s)	6	16 AWG	168x38	BC - Bare Copper			
Ground Wire	1	16 AWG	168x38	BC - Bare Copper			
nsulation							
Element	Ma	aterial		Nom. Thickness	Nom. Insulation Diameter	Color Code	
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon		de + Nylon	0.021 in (0.53 mm)	0.109 in (2.77 mm)	Black and Numbered	
Ground Wire	PVC/Nylon - Polyvinyl Chloride + Nylon		de + Nylon	0.021 in (0.53 mm)	0.109 in (2.77 mm)	Green/Yellow	
Outer Shield	vuter Shield						
Material							
No Shield							
Outer Jacket							

Separator	Material	Nom. Thickness	Nom. Diameter
non-Woven Tape	TPE - Thermoplastic Elastomer	0.047 in (1.2 mm)	0.46 in
Overall Cable Dia	meter (Nominal): 0.46 in		

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current	
Conductor(s)	4.18 Ohm/1000ft	13.3 Amps per Conductor at 30°C	
Ground Wire	4.45 Ohm/1000ft (14.6 Ohm/km)	30.4 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.
1.84 in (46.7 mm)	2.3 in
Max. Pull Tensior	1:
Bulk Cable Weigh	nt:

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:

Part Numbers

Revision Number: 0.385 Revision Date: 01-10-2024

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7125W 003250	Orange	Reel	250 ft	612825182368	С
7125W 0035000	Orange	Reel	5,000 ft	612825182375	

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7125W 003250