

4	Product: <u>7453W</u> ☑
	MachFlex™, 3+1 C #6 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER
	😭 Request Sample

Product Description

MachFlex™ for High Flex, 3+1 Conductor 6AWG (259(7x37)x30) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

Technical Specifications

Product Overview

Suitable Applications: Robotics, Robot, Co		Continuous Flex						
Construction Details								
Conductor	onductor							
Element	No. of Elements	Size	Stranding	Material				
Conductor(s)	3	6 AWG	259x30	BC - Bare Copper				
Ground Wire	1	6 AWG	259x30	BC - Bare Copper	1			
nsulation					m			
Element	Ma	aterial		Nom. Thicknes	s Nom. Insulation Diameter	Color Code		
Conductor(s)	PVC/Nylon - Poly	vinyl Chle	oride + Nyloi	n 0.033 in (0.84 mi	n) 0.276 in (7.01 mm)	Black and Numbered		
Ground Wire	Wire PVC/Nylon - Polyvinyl Chloride + Nylon		n 0.033 in (0.84 mi	n) 0.276 in (7.01 mm)	Green/Yellow			
Duter Shield Material No Shield Duter Jacket								
Separator	Ma	aterial	N	lom. Thickness	om. Diameter			
	ape TPE - Thermo	oplastic E	lastomer 0	.085 in (2.2 mm) 0	.875 in			
non-Woven Ta			overall Cable Diameter (Nominal): 0.875 in					

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	0.41 Ohm/1000ft	62 Amps per Conductor at 25°C
Ground Wire	0.41 Ohm/1000ft (1.3 Ohm/km)	62 Amps per Conductor at 25°C

Voltage

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

Mechanical Characteristics

Temperature

UL Temperature	Operating
TC-ER: 90°C Dry, 75°C Wet; AWM 20328: 105°C; AWM I/II A/B: 105°C	-40°C To +105°C

Bend Radius

Stationary Min.	Installation Min.	
3.5 in (89 mm)	4.37 in	
Max. Pull Tensior	n:	1346.8 lbs (610.90 kg)
Bulk Cable Weight:		591 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight 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: 0.259 Revision Date: 01-10-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7453W 060250	Chrome	Reel	250 ft	612825187035	С

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