



Product: 7409W ☑

MachFlex™, 2 C #18 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC

Request Sample

Product Description

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

Technical Specifications

Suitable Applications: Robotics, Robot, Co		ontinuous Flex				
onstructi	onstruction Details					
onductor						
Element	No. of Elements	Size	Stranding	Material		
Conductor(s)	2	18 AWG	16x30	BC - Bare Copper		
sulation Element	M	aterial		Nom Thickness	Nom. Insulation Diameter	Color Code
Lienient						
Conductor(s)			ide + Nylon		0.089 in (2.3 mm)	Black and Numbered

Material No Shield

Outer Jacket

Separati	OI .	Waterial	Nom. Inchiess	Nom. Diameter
non-Woven	Tape	TPE - Thermoplastic Elasto	ner 0.047 in (1.2 mm)	0.276 in
Overall Cab	le Dia	meter (Nominal): 0.276 in		

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
6.5 Ohm/1000ft	15 Amps per Conductor at 30°C

Voltage

1000 V (WTTC), 600 V (TC)

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.
1.10 in (27.9 mm)	1.38 in
	1.00
Max. Pull Tension	: 4
Max. Pull Tension	:

Bulk Cable Weight:	37 lbs/1000ft
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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: 0.381 Revision Date: 02-15-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7409W 060250	Chrome	Reel	250 ft	612825185680	С
7409W 0601000	Chrome	Reel	1,000 ft	612825185673	С
7409W 0605000	Chrome	Reel	5,000 ft	612825185697	

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