



**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

### Product Overview

Suitable Applications:	Robotics, Robot, Continuous Flex
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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	18 AWG	16x30	BC - Bare Copper

#### Insulation

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

#### Outer Shield

Material
No Shield

#### Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
non-Woven Tape	TPE - Thermoplastic Elastomer	0.047 in (1.2 mm)	0.276 in

Overall Cable Diameter (Nominal):	0.276 in
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### Electrical Characteristics

#### Electricals

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

#### Voltage

UL Voltage Rating
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

Max. Pull Tension:	41.6 lbs (18.9 kg)
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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: 0.383 Revision Date: 09-07-2025
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Part Numbers

Variants

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

Footnote:	C - CRATE REEL PUT-UP.
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