



**Product:** [7423W](#)

MachFlex™, 3C+1G #16 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER

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### Product Description

MachFlex™ for High Flex, 3+1G Conductor 16AWG (26x30) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

### Technical Specifications

#### Product Overview

Suitable Applications:	C-Track Systems, Automated Assembly systems, Material Handling Systems, Pick and Place Systems, Gantry Systems, Multi-Axis Machining
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#### Construction Details

##### Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	3	16 AWG	26x30	BC - Bare Copper
Ground	1	16 AWG	26x30	BC - Bare Copper

##### Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	Black and Numbered
Ground	PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	Green / Yellow Stripe

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
TPE - Thermoplastic Elastomer	0.047 in (1.2 mm)	0.342 in (8.69 mm)

Overall Cable Diameter (Nominal): 0.342 in (8.69 mm)

#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR
Conductor(s)	4 Ohm/1000ft (13 Ohm/km)
Ground	4 Ohm/1000ft (13 Ohm/km)

##### Voltage

UL Voltage Rating
(WTTC), 600 V (TC-ER, UL AWM 20328)

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating
90°C Dry, 75°C Wet	-40°C to +90°C

##### Bend Radius

Stationary Min.	Installation Min.	Flexing Min.
1.4 in (36 mm)	1.4 in (36 mm)	3.4 in (86 mm)

Max. Pull Tension: 140 lbs (64 kg)

Bulk Cable Weight:	79 lbs/1000ft (120 kg/km)
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## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 (FT4 Loading), FT4, 1202
NEC / UL Compliance:	Article 336, Article 760, TC-ER, WTTTC
AWM Compliance:	AWM 20328, AWM 2587, AWM 21486, I/II A/B
CEC / C(UL) Compliance:	CIC, TC

## History

Update and Revision:	Revision Number: 0.337 Revision Date: 05-05-2023
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
7423W 060250	Chrome	Reel	250 ft	612825186229
7423W 0601000	Chrome	Reel	1,000 ft	612825186212
7423W 0605000	Chrome	Reel	5,000 ft	612825186236

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