



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:	Robotics, Robot, Continuous Flex
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Construction Details

Conductor

Element	No. of Elements	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)

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, WTTC
AWM Compliance:	AWM 20328, AWM 2587, AWM 21486, I/II A/B
CEC / C(UL) Compliance:	CIC, TC

History

Update and Revision:	Revision Number: 0.340 Revision Date: 01-10-2024
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Part Numbers

Variants

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

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