



Product: [7422WS](#) 

MachFlex™, 2+1G C #16 Str BC, PVC-NYL Ins, OA TC Brd, TPE Jkt, TPE Jkt, 1000V WTTTC, 600V TC-ER

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Product Description

MachFlex™ for High Flex, 2+1G Conductor 16AWG (26x30) Bare Copper, PVC-NYL Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Inner Jacket, TPE Outer Jacket, 1000V WTTTC, 600V TC-ER

Technical Specifications

Product Overview

Suitable Applications:	Robotics, Robot, Continuous Flex
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Construction Details

Conductor

Element	Size	Stranding	Material
	16	26x30	BC - Bare Copper
Ground Wire	16	26x30	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PVC/Nylon - Polyvinyl Chloride + Nylon	0.101 in (2.57 mm)	Black and Numbered 1, Black and Numbered 2, Green/Yellow
		Chrome

Outer Shield

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	85%

Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
TPE - Thermoplastic Elastomer	0.025 in (0.64 mm)	0.272 in (6.91 mm)	No

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
TPE - Thermoplastic Elastomer	0.047 in (1.2 mm)	0.394 in

Electrical Characteristics

Electricals

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

Voltage

UL Voltage Rating
1000 V RMS, 600 V RMS

Mechanical Characteristics

Temperature

UL Temperature
75°C Dry, 90°C Wet

Bend Radius

Flexing Min.
3.2 in

Max. Pull Tension:	105 lbs (47.6 kg)
Bulk Cable Weight:	65 lbs/1000ft (97 kg/km)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading, 1202
NEC / UL Compliance:	TC-ER, WTTC
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: 0.382 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7422WS 060250	Chrome	Reel	250 ft	612825186205	C
7422WS 0601000	Chrome	Reel	1,000 ft	612825186199	

Footnote:	C - CRATE REEL PUT-UP.
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