




**Product:** [7429WS](#) 

MachFlex™, 24+1G C #16 Str BC, PVC-NYL Ins, OA TC Brd, TPE Jkt, TPE Jkt, 1000V WTTTC, 600V TC-ER

 [Request Sample](#)

## Product Description

MachFlex™ for High Flex, 24+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, Black and Numbered 3, Black and Numbered 4, Black and Numbered 5, Black and Numbered 6, Black and Numbered 7, Black and Numbered 8, Black and Numbered 9, Black and Numbered 10, Black and Numbered 11, Black and Numbered 12, Black and Numbered 13, Black and Numbered 14, Black and Numbered 15, Black and Numbered 16, Black and Numbered 17, Black and Numbered 18, Black and Numbered 19, Black and Numbered 20, Black and Numbered 21, Black and Numbered 22, Black and Numbered 23, Black and Numbered 24, Green/Yellow

#### Outer Shield

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

#### Inner Jacket

Material	Nom. Thickness	Nom. Diameter
TPE - Thermoplastic Elastomer	0.025 in (0.64 mm)	0.676 in (17.2 mm)

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
TPE - Thermoplastic Elastomer	0.083 in (2.1 mm)	0.87 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

<b>UL Temperature</b>
75°C Dry, 90°C Wet

#### Bend Radius

<b>Flexing Min.</b>
8.7 in

Max. Pull Tension:	875 lbs (397 kg)
Bulk Cable Weight:	488 lbs/1000ft (726 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: 0.377 Revision Date: 09-07-2025
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#### Part Numbers

##### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7429WS 060250	Chrome	Reel	250 ft	612825186526	C
7429WS 0601000	Chrome	Reel	1,000 ft	612825186519	C

Footnote:	C - CRATE REEL PUT-UP.
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