



Product: <u>7429WS</u> ☑

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

## **Technical Specifications**

### **Product Overview**

Suitable Applications:		R	obotics, Robot, Contin	uous Flex	
Physical Characteristics (Overall)					
Conductor					
Conductor					
Conductor Element	AWG	Stranding	Material	No. of Conductors	
	AWG	Stranding 26x30	Material BC - Bare Copper		

# Insulation

Conductor Count:

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.101 in

### Color Chart

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3
4	Black and Numbered 4
5	Black and Numbered 5
6	Black and Numbered 6
7	Black and Numbered 7
8	Black and Numbered 8
9	Black and Numbered 9
10	Black and Numbered 10
11	Black and Numbered 11
12	Black and Numbered 12
13	Black and Numbered 13
14	Black and Numbered 14
15	Black and Numbered 15
16	Black and Numbered 16
17	Black and Numbered 17
18	Black and Numbered 18
19	Black and Numbered 19
20	Black and Numbered 20
21	Black and Numbered 21
22	Black and Numbered 22
23	Black and Numbered 23

24	Black and Numbered 24
25	Green/Yellow

#### Inner Jacket

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.676 in	0.025 in

## Outer Shield

Type	Material	Coverage [%]	Nominal Diameter
Braid	Tinned Copper (TC)	85%	0.704 in

### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.87 in	0.083 in

### **Electrical Characteristics**

#### Conductor DCR

Nominal Conductor DCR 4 Ohm/1000ft

### Voltage

UL Voltage Rating 1000 V RMS 600 V RMS

# **Temperature Range**

UL Temp Rating:	75°C Dry, 90°C Wet
Other Temp Range:	Flexing: -5°C To +90 °C

### **Mechanical Characteristics**

Oil Resistance:	Yes
Flex Cycle Rating:	1 Million Flexes
Bulk Cable Weight:	488 lbs/1000ft
Max. Pull Tension:	875 lbs
Min. Bend Radius (Continuous Flexing):	8.7 in

## **Standards**

NEC/(UL) Compliance:	TC-ER, WTTC
CEC/C(UL) Compliance:	CIC, TC
UL AWM Style Compliance:	AWM 20328
CSA AWM Compliance:	AWM I/II A/B

# **Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Non-Halogenated:	No
Suitability - Oil Resistance:	Yes - Oil Res II
Suitability - Sunlight Resistance:	Yes

# Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	1000 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):	No

#### **Related Part Numbers**

#### Variants

Item #	Color	Put-Up Type	Length	UPC
7429WS 060250	Chrome	Reel	250 ft	612825186526
7429WS 0601000	Chrome	Reel	1,000 ft	612825186519
Footnote:			С	- CRATE REEL

# **History**

Update and Revision:	Revision Number: 0.376 Revision Date: 02-03-2025
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