



**Product:** [7435WS](#) 

MachFlex™, 2+1G C #14 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, 2+1G Conductor 14AWG (41x30) 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
	14	41x30	BC - Bare Copper
Ground Wire	14	41x30	BC - Bare Copper

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PVC/Nylon - Polyvinyl Chloride + Nylon	0.117 in (2.97 mm)	Black and Numbered 1, Black and Numbered 2, 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)	0.285 in (7.24 mm)

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
TPE - Thermoplastic Elastomer	0.047 in (1.2 mm)	0.407 in

### Electrical Characteristics

#### Electricals

Nom. Conductor DCR
2.5 Ohm/1000ft (8.2 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

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

Max. Pull Tension:	201 lbs (91.2 kg)
Bulk Cable Weight:	119 lbs/1000ft (177 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: 0.284 Revision Date: 09-07-2025
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7435WS 060250	Chrome	Reel	250 ft	612825186595	C
7435WS 0601000	Chrome	Reel	1,000 ft	612825186588	
7435WS 0605000	Chrome	Reel	5,000 ft	612825186601	

Footnote:	C - CRATE REEL PUT-UP.
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