



**Product:** [7438W](#)

MachFlex™, 6+1G C #14 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER

[Request Sample](#)

## Product Description

MachFlex™ for High Flex, 6+1G Conductor 14AWG (41x30) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
	14	41x30	BC - Bare Copper	6
Ground Wire	14	41x30	BC - Bare Copper	1

Conductor Count:

#### Insulation

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.117 in

#### Color Chart

Number	Color
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	Green/Yellow

#### Outer Shield

Material
No Shield

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.487 in	0.047 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
2.5 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:	162 lbs/1000ft
Max. Pull Tension:	469 lbs
Min. Bend Radius (Continuous Flexing):	4.9 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, LSOH, 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
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## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
7438W 060250	Chrome	Reel	250 ft	612825186663
7438W 0601000	Chrome	Reel	1,000 ft	612825186656
7438W 0605000	Chrome	Reel	5,000 ft	612825186670

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.364 Revision Date: 04-08-2022
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