



Product: <u>7438W</u> ☑

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 Co	unt:		7	

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



Outer Jacket

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

Electrical Characteristics

Conductor DCR



Voltage



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
UV 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, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

Plenum (Y/N):	No	

Related Part Numbers

Variants

	Item #	Color	Put-Up Type	Length	UPC
ľ	7438W 060250	Chrome	Reel	250 ft	612825186663
	7438W 0601000	Chrome	Reel	1,000 ft	612825186656
	7438W 0605000	Chrome	Reel	5,000 ft	612825186670
Ï	Footnote:				C - CRATE REEL

History

Update and Revision:	Revision Number: 0.372 Revision Date: 05-05-2023

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