



Product: [7423W](#)

MachFlex™, 3+1G C #16 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER

 Request Sample

Product Description

MachFlex™ for High Flex, 3+1G Conductor 16AWG (26x30) 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
	16	26x30	BC - Bare Copper	3
Ground Wire	16	26x30	BC - Bare Copper	

Conductor Count: 4

Insulation

Material	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride/Nylon Skin	0.015 in
PVC - Polyvinyl Chloride	0.005 in
Nylon	

Color Chart

Number	Color
Individually Numbered	Black

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.342 in	0.047 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
4 Ohm/1000ft

Temperature Range

UL Temp Rating:	90°C (UL AWM Style 2587)
Operating Temp Range:	-40°C To +90°C
Other Temp Range:	Flexing: -5°C To +90 °C

Mechanical Characteristics

Flex Cycle Rating:	1 Million Flexes
Bulk Cable Weight:	79 lbs/1000ft
Max Recommended Pulling Tension:	140 lbs

Min Bend Radius (Continuous Flexing):	3.4 in
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Standards

NEC/(UL) Specification:	TC-ER, W TTC
CEC/C(UL) Specification:	600V Type CIC TC
UL AWM Style:	UL Style 2587 (600 V 90°C), UL Style 21486 (1000 V 90°C)
CSA AWM Specification:	AWM I/II A/B

Applicable Environmental and Other Programs

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
MII Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1685 (FT4 Loading)Test
IEEE Flammability:	IEEE 1202

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
7423W 060250	Chrome	Reel	250 ft	612825186229
7423W 0601000	Chrome	Reel	1,000 ft	612825186212
7423W 0605000	Chrome	Reel	5,000 ft	612825186236

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.268 Revision Date: 04-28-2020
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