



Product: [7127W](#)

MachFlex™, 11+1G C #16 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER

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Product Description

MachFlex™ for High Flex, 11+1G Conductor 16AWG (168(7x24) x38) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
16	163x38	BC - Bare Copper	11
16		BC - Bare Copper	1

Conductor Count:

Insulation

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.109 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	Black and Numbered
8	Black and Numbered
9	Black and Numbered
10	Black and Numbered
11	Black and Numbered
12	Green/Yellow

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.582 in	0.063 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
5.7 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: 10 Million Flexes

Bulk Cable Weight: 199 lbs/1000ft

Max. Pull Tension: 456 lbs

Min Bend Radius (Continuous Flexing): 5.8 in

Standards

NEC/(UL) Compliance: TC-ER, WTTTC

CEC/C(UL) Compliance: CIC, TC

UL AWM Style Compliance: 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 II): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive 2015/863/EU: Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU RoHS Compliance Date (yyyy-mm-dd): 2005-10-01

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

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
7127W 003250	Orange	Reel	250 ft	612825182436
7127W 0031000	Orange	Reel	1,000 ft	612825182429
7127W 0035000	Orange	Reel	5,000 ft	612825182443

Footnote: C - CRATE REEL PUT-UP.

History

Update and Revision: Revision Number: 0.290 Revision Date: 06-24-2020

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