



Product: [7123WS](#)

MachFlex™, 3+1G C #16 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, 3+1G Conductor 16AWG (168(7x24) x38) Bare Copper, PVC-NYL Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Inner Jacket, TPE Outer Jacket, 1000V WTTTC, 600V TC-ER

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|------------------|-------------------|
| 16 | 168x38 | BC - Bare Copper | 3 |
| 16 | | BC - Bare Copper | 1 |

Conductor Count: 4

Insulation

| Material | Nominal Diameter |
|--|------------------|
| PVC/Nylon - Polyvinyl Chloride + Nylon | 0.109 in |

Color Chart

| Number | Color |
|--------|----------------------|
| 1 | Black and Numbered 1 |
| 2 | Black and Numbered 2 |
| 3 | Black and Numbered 3 |
| 4 | Green/Yellow |

Inner Jacket Material

| Material | Nominal Wall Thickness |
|-------------------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.025 in |

Outer Shield Material

| Type | Material | Coverage [%] |
|-------|--------------------|--------------|
| Braid | Tinned Copper (TC) | 85% |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.435 in | 0.047 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: | 133 lbs/1000ft |
| Max. Pull Tension: | 152 lbs |
| Min Bend Radius (Continuous Flexing): | 4.5 in |

Standards

| | |
|--------------------------|--------------|
| NEC/(UL) Compliance: | TC-ER, WTTC |
| 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, 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 |
|---------------|----|

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|----------------|--------|------------|----------|--------------|
| 7123WS 003250 | Orange | Reel | 250 ft | 612825182344 |
| 7123WS 0031000 | Orange | Reel | 1,000 ft | 612825358923 |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.298 Revision Date: 09-30-2020 |
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