



Product: [7423W](#)

MachFlex™, 3+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, 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

Standards

| | |
|--------------------------|--|
| NEC/(UL) Specification: | TC-ER, WTTC |
| 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, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

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. |
|-----------|------------------------|

History

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