



Product: [7401W](#)

MachFlex™, 2+1G C #20 Str BC, PVC Ins, TPE Jkt, PLTC

[Request Sample](#)

Product Description

MachFlex™ for High Flex, 2+1G Conductor 20AWG (19x32) Bare Copper, PVC Insulation, TPE Outer Jacket, PLTC

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|------------------|-------------------|
| 20 | 19x32 | BC - Bare Copper | 2 |
| 20 | | BC - Bare Copper | 1 |

Conductor Count:

Insulation

| Material | Nominal Wall Thickness |
|--------------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.015 in |

Color Chart

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

Outer Shield Material

| Material |
|-----------|
| No Shield |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.211 in | 0.037 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 8.8 Ohm/1000ft |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS |

Temperature Range

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

Mechanical Characteristics

| | |
|---------------------------------------|------------------|
| Oil Resistance: | Yes |
| Flex Cycle Rating: | 1 Million Flexes |
| Bulk Cable Weight: | 29 lbs/1000ft |
| Max. Pull Tension: | 39 lbs |
| Min Bend Radius (Continuous Flexing): | 2.2 in |

Standards

| | |
|--------------------------|--------------|
| NEC/(UL) Compliance: | PLTC |
| UL AWM Style Compliance: | 20327 |
| 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: | 300 V RMS |

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|--------|------------|----------|--------------|
| 7401W 060250 | Chrome | Reel | 250 ft | 612825185284 |
| 7401W 0601000 | Chrome | Reel | 1,000 ft | 612825185277 |
| 7401W 0605000 | Chrome | Reel | 5,000 ft | 612825185291 |

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

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.281 Revision Date: 06-24-2020 |
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