



Product: [7102W](#)

MachFlex™, 3+1G C #20 Str BC, PVC Ins, TPE Jkt, PLTC

 Request Sample

Product Description

MachFlex™ for High Flex, 3+1G Conductor 20AWG (74x38) Bare Copper, PVC Insulation, TPE Outer Jacket, PLTC

Technical Specifications

Physical Characteristics (Overall)

Conductor

| Element     | AWG | Stranding | Material         | No. of Conductors |
|-------------|-----|-----------|------------------|-------------------|
|             | 20  | 74x38     | BC - Bare Copper | 3                 |
| Ground Wire | 20  | 74x38     | BC - Bare Copper |                   |

Conductor Count: 4

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      | Black and Numbered 3 |
| 4      | Green/Yellow         |

Outer Shield Material

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

Outer Jacket Material

| Material                      | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.256 in         | 0.037 in               |

Electrical Characteristics

Conductor DCR

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

Voltage

| UL Voltage Rating |
|-------------------|
| 600 V RMS         |
| 300 V RMS         |

Temperature Range

|                       |                              |
|-----------------------|------------------------------|
| UL Temp Rating:       | 90°C                         |
| Operating Temp Range: | -50°C (-5°C Flexing) To 90°C |

|                   |                         |
|-------------------|-------------------------|
| Other Temp Range: | Flexing: -5°C To +90 °C |
|-------------------|-------------------------|

Mechanical Characteristics

|                                       |                   |
|---------------------------------------|-------------------|
| Oil Resistance:                       | Yes               |
| Flex Cycle Rating:                    | 10 Million Flexes |
| Bulk Cable Weight:                    | 49 lbs/1000ft     |
| Max. Pull Tension:                    | 59 lbs            |
| Min Bend Radius (Continuous Flexing): | 2.6 in            |

Standards

|                          |              |
|--------------------------|--------------|
| NEC/(UL) Compliance:     | TC           |
| 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 2003/96/EC (BFR):        | 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: | 600 V RMS         |

Plenum/Non-Plenum

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

Part Number

Variants

| Item #        | Color  | Putup Type | Length   | UPC          |
|---------------|--------|------------|----------|--------------|
| 7102W 003250  | Orange | Reel       | 250 ft   | 612825181941 |
| 7102W 0031000 | Orange | Reel       | 1,000 ft | 612825181934 |
| 7102W 0035000 | Orange | Reel       | 5,000 ft | 612825181958 |

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.285 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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#### Как с нами связаться

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