



Product: [7404WS](#)

MachFlex™, 6+1G C #20 Str BC, PVC Ins, OA TC Brd, TPE Jkt, PLTC

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Product Description

MachFlex™ for High Flex, 6+1G Conductor 20AWG (19x32) Bare Copper, PVC Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Outer Jacket, PLTC

Technical Specifications

Construction Details

Conductor

| Element | Number of Element | Size | Stranding | Material |
|--------------|-------------------|--------|-----------|------------------|
| Conductor(s) | 6 | 20 AWG | 19x32 | BC - Bare Copper |
| Ground Wire | 1 | 20 AWG | 19x32 | BC - Bare Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|--------------------------|--------------------|--------------------------|--------------------|
| Conductor(s) | PVC - Polyvinyl Chloride | 0.015 in (0.38 mm) | 0.066 in (1.7 mm) | Black and Numbered |
| Ground Wire | PVC - Polyvinyl Chloride | 0.015 in (0.38 mm) | 0.066 in (1.7 mm) | Green/Yellow |

Outer Shield

| Shield Type | Material | Coverage |
|-------------|--------------------|----------|
| Braid | Tinned Copper (TC) | 84% |

Inner Jacket

| Separator | Material | Nom. Thickness | Nom. Diameter | Color |
|----------------|-------------------------------|--------------------|--------------------|--------|
| non-Woven Tape | TPE - Thermoplastic Elastomer | 0.025 in (0.64 mm) | 0.275 in (6.99 mm) | Chrome |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|-------------------------------|-------------------|---------------|
| TPE - Thermoplastic Elastomer | 0.053 in (1.3 mm) | 0.409 in |

Overall Cable Diameter (Nominal): 0.409 in

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Max. Current |
|--------------|-------------------------------|---------------------------------|
| Conductor(s) | 10.8 Ohm/1000ft | 6.3 Amps per Conductor at 30°C |
| Ground Wire | 10.7 Ohm/1000ft (35.1 Ohm/km) | 14.4 Amps per Conductor at 30°C |

Voltage

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

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|------------------------------|----------------|
| UL : 90°C, AWM 20327 : 105°C | -40°C To 105°C |

Bend Radius

| Stationary Min. | Installation Min. |
|------------------|-------------------|
| 4.09 in (104 mm) | 4.09 in |

| | |
|--------------------|-------------------|
| Max. Pull Tension: | 105 lbs (47.6 kg) |
| Bulk Cable Weight: | 103 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance |
| Flammability / Reaction to Fire: | UL1685 UL Loading, IEEE 1202 FT4 |
| NEC / UL Compliance: | Article 725, PLTC |
| AWM Compliance: | AWM 20327, AWM I/II A/B |
| European Directive Compliance: | EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.387 Revision Date: 05-05-2023 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|----------------|--------|------------|----------|--------------|
| 7404WS 060250 | Chrome | Reel | 250 ft | 612825185475 |
| 7404WS 0601000 | Chrome | Reel | 1,000 ft | 612825185468 |
| 7404WS 0605000 | Chrome | Reel | 5,000 ft | 612825185482 |

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