



**Product:** [7422W](#)

MachFlex™, 2+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, 2+1G Conductor 16AWG (26x30) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

Technical Specifications

Construction Details

Conductor

| Element      | Number of Element | Size   | Stranding | Material         |
|--------------|-------------------|--------|-----------|------------------|
| Conductor(s) | 2                 | 16 AWG | 26x30     | BC - Bare Copper |
| Ground Wire  | 1                 | 16 AWG | 26x30     | BC - Bare Copper |

Insulation

| Element      | Material                               | Nom. Thickness     | Nom. Insulation Diameter | Color Code         |
|--------------|----------------------------------------|--------------------|--------------------------|--------------------|
| Conductor(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.021 in (0.53 mm) | 0.101 in (2.57 mm)       | Black and Numbered |
| Ground Wire  | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.021 in (0.53 mm) | 0.101 in (2.57 mm)       | Green/Yellow       |

Outer Shield

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

Outer Jacket

| Separator      | Material                      | Nom. Thickness    | Nom. Diameter |
|----------------|-------------------------------|-------------------|---------------|
| non-Woven Tape | TPE - Thermoplastic Elastomer | 0.047 in (1.2 mm) | 0.316 in      |

|                                   |          |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.316 in |
|-----------------------------------|----------|

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR            | Max. Current                    |
|--------------|-------------------------------|---------------------------------|
| Conductor(s) | 4.18 Ohm/1000ft               | 19 Amps per Conductor at 30°C   |
| Ground Wire  | 4.45 Ohm/1000ft (14.6 Ohm/km) | 30.4 Amps per Conductor at 30°C |

Voltage

| UL Voltage Rating            |
|------------------------------|
| 1000 V (WTTC), 600 V (TC-ER) |

Mechanical Characteristics

Temperature

| UL Temperature                             | Operating      |
|--------------------------------------------|----------------|
| UL : 90°C Dry, 75°C Wet; AWM 20328 : 105°C | -40°C To 105°C |

Bend Radius

| Stationary Min.   | Installation Min. |
|-------------------|-------------------|
| 1.26 in (32.0 mm) | 1.58 in           |

|                    |                 |
|--------------------|-----------------|
| Max. Pull Tension: | 120 lbs (54 kg) |
|--------------------|-----------------|

|                    |               |
|--------------------|---------------|
| Bulk Cable Weight: | 65 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 336                                                                                                   |
| AWM Compliance:                  | AWM 20328, AWM I/II A/B                                                                                       |
| CEC / C(UL) Compliance:          | CIC, TC                                                                                                       |
| 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: 0.363 Revision Date: 05-05-2023 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color  | Putup Type | Length   | UPC          |
|---------------|--------|------------|----------|--------------|
| 7422W 060250  | Chrome | Reel       | 250 ft   | 612825186175 |
| 7422W 0601000 | Chrome | Reel       | 1,000 ft | 612825186168 |
| 7422W 0605000 | Chrome | Reel       | 5,000 ft | 612825186182 |

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