


Product: [7409W](#) 

MachFlex™, 2 C #18 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTTC, 600V TC



 [Request Sample](#)

Product Description

MachFlex™ for High Flex, 2 Conductor 18AWG (16x30) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTTC, 600V TC

Technical Specifications

Construction Details

Conductor

| Element | Number of Element | Size | Stranding | Material |
|--------------|-------------------|--------|-----------|------------------|
| Conductor(s) | 2 | 18 AWG | 16x30 | 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) | 0.089 in (2.3 mm) | Black and Numbered |

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) | 0.276 in |

Overall Cable Diameter (Nominal): 0.276 in

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Max. Current |
|--------------------|-------------------------------|
| 6.5 Ohm/1000ft | 15 Amps per Conductor at 30°C |

Voltage

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

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. |
|-------------------|-------------------|
| 1.10 in (27.9 mm) | 1.38 in |

| | |
|--------------------|---------------|
| Max. Pull Tension: | 41.6 lbs |
| Bulk Cable Weight: | 37 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance |
| Flammability / Reaction to Fire: | UL1685 UL Loading, FT4, IEEE 1202 FT4 |
| NEC / UL Compliance: | Article 336, TC, WTTTC |
| AWM Compliance: | UL AWM Style 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: 0.371 Revision Date: 12-20-2021 |
|----------------------|--|

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|--------|------------|----------|--------------|
| 7409W 060250 | Chrome | Reel | 250 ft | 612825185680 |
| 7409W 0601000 | Chrome | Reel | 1,000 ft | 612825185673 |
| 7409W 0605000 | Chrome | Reel | 5,000 ft | 612825185697 |

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