


Product: [7409W](#) 



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

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Product Description

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

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|------------------|-------------------|
| 18 | 16x30 | BC - Bare Copper | 2 |

Conductor Count:

Insulation

| Material | Nominal Diameter |
|---|------------------|
| PVC/Nylon - Polyvinyl Chloride/Nylon Skin | 0.089 in |

Color Chart

| Number | Color |
|--------|----------------------|
| 1 | Black and Numbered 1 |
| 2 | Black and Numbered 2 |

Outer Shield Material

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

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.276 in | 0.047 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 6.5 Ohm/1000ft |

Voltage

| UL Voltage Rating |
|-------------------|
| 600 V RMS |
| 1000 V RMS |

Temperature Range

| | |
|-------------------|-------------------------|
| UL Temp Rating: | 75°C Dry, 90°C Wet |
| Other Temp Range: | Flexing: -5°C To +90 °C |

Mechanical Characteristics

| | |
|-----------------|-----|
| Oil Resistance: | Yes |
|-----------------|-----|

| | |
|---------------------------------------|------------------|
| Flex Cycle Rating: | 1 Million Flexes |
| Bulk Cable Weight: | 33 lbs/1000ft |
| Max. Pull Tension: | 50 lbs |
| Min Bend Radius (Continuous Flexing): | 4 in |
| Min Bend Radius/Minor Axis: | 2.7 in |

Standards

| | |
|--------------------------|--------------|
| NEC/(UL) Compliance: | TC, WTTC |
| CEC/C(UL) Compliance: | CIC, TC |
| UL AWM Style Compliance: | 20328 |
| 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 - Oil Resistance: | Yes - Oil Res II |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LS0H, 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 |
|---------------|--------|------------|----------|--------------|
| 7409W 060250 | Chrome | Reel | 250 ft | 612825185680 |
| 7409W 0601000 | Chrome | Reel | 1,000 ft | 612825185673 |
| 7409W 0605000 | Chrome | Reel | 5,000 ft | 612825185697 |

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

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.290 Revision Date: 06-24-2020 |
|----------------------|--|

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