




Part Number: 7415WS

MachFlex™, 11+1G C #18 Str BC, PVC-NYL Ins, OA TC Brd, TPE Jkt, 1000V WTTTC, 600V TC-ER

 Request Sample

Product Description

MachFlex™ for High Flex, 11+1G Conductor 18AWG (16x30) Bare Copper, PVC-NYL Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Outer Jacket, 1000V WTTTC, 600V TC-ER

Technical Specifications

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Conductors |
|-------------|-----|-----------|------------------|-------------------|
| | 18 | 16x30 | BC - Bare Copper | 11 |
| Ground Wire | 18 | 16x30 | BC - Bare Copper | 1 |

| | |
|------------------|--------|
| Conductor Count: | 12 |
| Conductor Size: | 18 AWG |

Insulation

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

Color Chart

| Number | Color |
|--------|-----------------------|
| 1 | Black and Numbered 1 |
| 2 | Black and Numbered 2 |
| 3 | Black and Numbered 3 |
| 4 | Black and Numbered 4 |
| 5 | Black and Numbered 5 |
| 6 | Black and Numbered 6 |
| 7 | Black and Numbered 7 |
| 8 | Black and Numbered 8 |
| 9 | Black and Numbered 9 |
| 10 | Black and Numbered 10 |
| 11 | Black and Numbered 11 |
| 12 | Green/Yellow |

Inner Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.424 in | 0.025 in |

Outer Shield Material

| Type | Material | Coverage [%] | Nominal Diameter |
|-------|--------------------|--------------|------------------|
| Braid | TC - Tinned Copper | 85 % | 0.452 in |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.578 in | 0.063 in |

Electrical Characteristics

Conductor DCR

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

Voltage

| |
|-------------------|
| UL Voltage Rating |
| 1000 V RMS |
| 600 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: | 196 lbs/1000ft |
| Max Recommended Pulling Tension: | 276 lbs |
| Min Bend Radius (Continuous Flexing): | 5.8 in |

Standards

| | |
|--------------------------|--------------|
| NEC/UL Specification: | TC-ER, WTTTC |
| CEC/C(UL) Specification: | CIC, TC |
| UL AWM Style: | 20328 |
| CSA AWM Specification: | 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 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| 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: | 1000 V RMS |

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | UPC | Length | Footnote |
|----------------|--------|--------------|----------|----------|
| 7415WS 0601000 | Chrome | 612825185963 | 1,000 ft | C |
| 7415WS 060250 | Chrome | 612825185970 | 250 ft | C |

Footnote: C - CRATE REEL PUT-UP.

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