



Product: <u>7447WS</u> ☑

MachFlex[™], 3+1G C #10 Str BC, PVC-NYL Ins, OA TC Brd, TPE Jkt, TPE Jkt, 1000V WTTC, 600V TC-ER

😭 Request Sample

Product Description

MachFlex™ for High Flex, 3+1G Conductor 10AWG (105x30) Bare Copper, PVC-NYL Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Inner Jacket, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

Technical Specifications

Product Overview

| Suitable Ap | plications | : | | F | Robotics, | Robot, Contir | nuous Flex |
|-------------|------------|---------------|--------|-------------|-----------|---------------|------------|
| hysical | Chara | cteristics | (Ov | erall) | | | |
| onductor | | | | | | | |
| Element | AWG | Stranding | N | laterial | No. of | Conductors | |
| | 10 | 105x30 | BC - I | Bare Copper | 3 | | |
| Ground Wi | re 10 | 105x30 | BC - I | Bare Copper | • 1 | | 1 |
| Conductor | Count: | | | 4 | | | - |
| sulation | Mate | rial | | Nominal D | iameter | | |
| PVC/Nylon | - Polyviny | /I Chloride + | Nylon | 0.172 in | | | |
| olor Charl | | olor | | | | | |
| 1 E | Black and | Numbered 1 | | | | | |
| 2 1 | Black and | Numbered 2 | 1 | | | | |
| | Black and | Numbered 3 | 1 | | | | |
| , 1 | | | | | | | |

Inner Jacket

| Material | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.49 in | 0.035 in |

Outer Shield

| Туре | Material | Coverage [%] | Nominal Diameter |
|-------|--------------------|--------------|------------------|
| Braid | Tinned Copper (TC) | 85% | 0.518 in |

Outer Jacket

| Material | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.644 in | 0.063 in |

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR 1 Ohm/1000ft 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 |
| Bulk Cable Weight: | 296 lbs/1000ft |
| Max. Pull Tension: | 546 lbs |
| Min. Bend Radius (Continuous Flexing): | 6.5 in |

Standards

| NEC/(UL) Compliance: | TC-ER, WTTC |
|--------------------------|--------------|
| | |
| CEC/C(UL) Compliance: | CIC, TC |
| | |
| UL AWM Style Compliance: | AWM 20328 |
| 004 49484 0 | |
| 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 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| MII Order #39 (China RoHS): | Yes |
| | |

Suitability

| Suitability - Non-Halogenated: | No |
|------------------------------------|------------------|
| 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: | 1000 V RMS |

Plenum/Non-Plenum

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

Related Part Numbers

Variants

| ltem # | Color | Put-Up Type | Length | UPC |
|----------------|--------|-------------|----------|--------------|
| 7447WS 060250 | Chrome | Reel | 250 ft | 612825186946 |
| 7447WS 0601000 | Chrome | Reel | 1,000 ft | 612825186939 |
| 7447WS 0605000 | Chrome | Reel | 5,000 ft | 612825186953 |
| Footnote: | | | C | - CRATE REEL |

History

| Update and Revision: | Revision Number: 0.304 Revision Date: 01-10-2024 |
|----------------------|--------------------------------------------------|

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