



Product: [7435WS](#)

MachFlex™, 2+1G C #14 Str BC, PVC-NYL Ins, OA TC Brd, TPE Jkt, TPE Jkt, 1000V WTTTC, 600V TC-ER

Request Sample

Product Description

MachFlex™ for High Flex, 2+1G Conductor 14AWG (41x30) Bare Copper, PVC-NYL Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Inner Jacket, TPE Outer Jacket, 1000V WTTTC, 600V TC-ER

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material         | No. of Conductors |
|-----|-----------|------------------|-------------------|
| 14  | 41x30     | BC - Bare Copper | 2                 |
| 14  |           | BC - Bare Copper | 1                 |

Conductor Count:3

Insulation

| Material                               | Nominal Diameter |
|--|------------------|
| PVC/Nylon - Polyvinyl Chloride + Nylon | 0.117 in         |

Color Chart

| Number | Color                |
|--------|----------------------|
| 1      | Black and Numbered 1 |
| 2      | Black and Numbered 2 |
| 3      | Green/Yellow         |

Inner Jacket Material

| Material                      | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.285 in         | 0.025 in               |

Outer Shield Material

| Type  | Material           | Coverage [%] | Nominal Diameter |
|-------|--------------------|--------------|------------------|
| Braid | Tinned Copper (TC) | 85%          | 0.313 in         |

Outer Jacket Material

| Material                      | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.407 in         | 0.047 in               |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 2.5 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:                    | 119 lbs/1000ft   |
| Max. Pull Tension:                    | 201 lbs          |
| Min Bend Radius (Continuous Flexing): | 4.1 in           |

Standards

|                          |              |
|--------------------------|--------------|
| NEC/(UL) Compliance:     | TC-ER, 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 - 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  | Putup Type | Length   | UPC          |
|----------------|--------|------------|----------|--------------|
| 7435WS 060250  | Chrome | Reel       | 250 ft   | 612825186595 |
| 7435WS 0601000 | Chrome | Reel       | 1,000 ft | 612825186588 |
| 7435WS 0605000 | Chrome | Reel       | 5,000 ft | 612825186601 |

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

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.248 Revision Date: 09-30-2020 |
|----------------------|--|

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