



Product: [73403WS](#)

MachFlex™, 3 C #14 Str BC, PVC Ins, OA TC Brd, PVC Jkt, PVC Jkt, AWM 2587 CLASS K

Request Sample

Product Description

MachFlex™ for Moderate Flex, 3 Conductor 14AWG (41x30) Bare Copper, PVC Insulation, Overall Tinned Copper Braid(85%) Shield, PVC Inner Jacket, PVC Outer Jacket, AWM 2587 CLASS K

Technical Specifications

Physical Characteristics (Overall)

| Conductor        |     |           |                  |                   |
|------------------|-----|-----------|------------------|-------------------|
| Element          | AWG | Stranding | Material         | No. of Conductors |
| Conductor(s)     | 14  | 41x30     | BC - Bare Copper | 2                 |
| Ground           | 14  | 41x30     | BC - Bare Copper | 1                 |
| Conductor Count: |     |           |                  | 3                 |

| Insulation   |                          |                  |                        |
|--------------|--------------------------|------------------|------------------------|
| Element      | Material                 | Nominal Diameter | Nominal Wall Thickness |
| Conductor(s) | PVC - Polyvinyl Chloride | 0.118 in         | 0.022 in               |
| Ground       | PVC - Polyvinyl Chloride |                  |                        |

| Color Chart        |  |
|--------------------|--|
| Color              |  |
| Black and Numbered |  |

| Inner Jacket             |                  |                        |
|--------------------------|------------------|------------------------|
| Material                 | Nominal Diameter | Nominal Wall Thickness |
| PVC - Polyvinyl Chloride | .331 in          | .035 in                |

| Outer Shield |                    |              |
|--------------|--------------------|--------------|
| Type         | Material           | Coverage [%] |
| Braid        | Tinned Copper (TC) | 85%          |

| Outer Jacket             |                  |                        |
|--------------------------|------------------|------------------------|
| Material                 | Nominal Diameter | Nominal Wall Thickness |
| PVC - Polyvinyl Chloride | 0.443 in         | 0.042 in               |

Electrical Characteristics

| Conductor DCR         |                          |
|-----------------------|--------------------------|
| Nominal Conductor DCR | Nominal Outer Shield DCR |
| 2.6 Ohm/1000ft        | 2.6 Ohm/1000ft           |

| Capacitance                             |  |
|-----------------------------------------|--|
| Nom. Capacitance Conductor to Conductor |  |
| 57 pF/ft                                |  |

| Inductance         |  |
|--------------------|--|
| Nominal Inductance |  |

|            |
|------------|
| .170 μH/ft |
|------------|

Voltage

|                   |
|-------------------|
| UL Voltage Rating |
| 600 V             |

Temperature Range

|                              |                                                |
|------------------------------|------------------------------------------------|
| UL Temp Rating:              | 90°C                                           |
| Operating Temperature Range: | -40°C To 90°C (Static), -5°C To 90°C (Flexing) |

Mechanical Characteristics

|                                        |                  |
|----------------------------------------|------------------|
| Oil Resistance:                        | Yes              |
| Flex Cycle Rating:                     | 1 Million Cycles |
| Bulk Cable Weight:                     | 261 lbs/1000ft   |
| Max. Pull Tension:                     | 106 lbs          |
| Min. Bend Radius (Continuous Flexing): | 3.5 in           |
| Min. Bend Radius/Minor Axis:           | 3.5 in           |

Standards

|                          |              |
|--------------------------|--------------|
| UL AWM Style Compliance: | AWM 2587     |
| CSA AWM Compliance:      | AWM I/II A/B |

Applicable Environmental and Other Programs

|                                              |                               |
|----------------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):               | Yes                           |
| EU Directive 2003/11/EC (BFR):               | 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) |
| EU CE Mark:                                  | Yes                           |

Suitability

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

Flammability, LS0H, Toxicity Testing

|                    |           |
|--------------------|-----------|
| CSA Flammability:  | FT1       |
| UL voltage rating: | 600 V RMS |

Related Part Numbers

Variants

| Item #          | Color | Put-Up Type | UPC          |
|-----------------|-------|-------------|--------------|
| 73403WS 008100  | Gray  | Reel        | 612825409465 |
| 73403WS 0081000 | Gray  | Reel        | 612825409472 |
| 73403WS 008500  | Gray  | Reel        | 612825409489 |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.140 Revision Date: 05-31-2024 |
|----------------------|--------------------------------------------------|