



Product: [76202WS](#)

MachFlex™, 2 C #24 Str TC, SRPVC Ins, OS+TC Srv, PVC Jkt, CMG

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Product Description

MachFlex™ for High Flex, 2 Conductor 24AWG (10x34) Tinned Copper, SRPVC Insulation, Overall Beldfoil®+Tinned Copper Serve(90%) Shield, PVC Outer Jacket, CMG

Technical Specifications

Physical Characteristics (Overall)

| Conductor        |     |           |                    |                   |
|------------------|-----|-----------|--------------------|-------------------|
| Element          | AWG | Stranding | Material           | No. of Conductors |
| Conductor(s)     | 24  | 10x34     | TC - Tinned Copper | 2                 |
| Conductor Count: |     |           |                    | 2                 |

| Insulation   |                          |                        |
|--------------|--------------------------|------------------------|
| Element      | Material                 | Nominal Wall Thickness |
| Conductor(s) | PVC - Polyvinyl Chloride | 0.010 in               |

| Outer Shield          |                         |              |                    |               |
|-----------------------|-------------------------|--------------|--------------------|---------------|
| Type                  | Material                | Coverage [%] | Drainwire Material | Drainwire AWG |
| Tape                  | Bi-Laminate (Alum+Poly) | 100%         | TC - Tinned Copper | 26            |
| Spiral Serve / Screen | Tinned Copper (TC)      | 90%          |                    |               |

| Outer Jacket             |                  |                        |
|--------------------------|------------------|------------------------|
| Material                 | Nominal Diameter | Nominal Wall Thickness |
| PVC - Polyvinyl Chloride | 0.192 in         | 0.040 in               |

Electrical Characteristics

| Conductor DCR         |                          |
|-----------------------|--------------------------|
| Nominal Conductor DCR | Nominal Outer Shield DCR |
| 29 Ohm/1000ft         | 6.6 Ohm/1000ft           |

| Capacitance                             |  |
|---|--|
| Nom. Capacitance Conductor to Conductor |  |
| 35 pF/ft                                |  |

| Inductance         |  |
|--------------------|--|
| Nominal Inductance |  |
| .19 µH/ft          |  |

| Impedance                        |  |
|----------------------------------|--|
| Nominal Characteristic Impedance |  |
| 54 Ohm                           |  |

| Voltage           |  |
|-------------------|--|
| UL Voltage Rating |  |
| 300 V             |  |

Temperature Range

|                              |   |
|------------------------------|---|
| UL Temp Rating:              | 105°C   |
| Operating Temperature Range: | -10°C To 105°C (Static), 5°C To 105°C (Flexing) |

Mechanical Characteristics

|  |                  |
|--|------------------|
| Flex Cycle Rating:                     | 6 Million Cycles |
| Bulk Cable Weight:                     | 25 lbs/1000ft    |
| Max. Pull Tension:                     | 10.7 lbs         |
| Min. Bend Radius (Continuous Flexing): | 1.5 in           |
| Min. Bend Radius/Minor Axis:           | 1.5 in           |

Standards

|                          |                     |
|--------------------------|---------------------|
| NEC/(UL) Compliance:     | CM                  |
| CEC/C(UL) Compliance:    | CMG                 |
| UL AWM Style Compliance: | AWM 2661, AWM 10002 |
| 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 - Sunlight Resistance: | Yes |
|------------------------------------|-----|

Flammability, LS0H, Toxicity Testing

|                    |           |
|--------------------|-----------|
| CSA Flammability:  | FT4       |
| UL voltage rating: | 300 V RMS |

Related Part Numbers

Variants

| Item #          | Color | Put-Up Type | UPC          |
|-----------------|-------|-------------|--------------|
| 76202WS 008100  | Gray  | Reel        | 612825410737 |
| 76202WS 0081000 | Gray  | Reel        | 612825410744 |
| 76202WS 008500  | Gray  | Reel        | 612825410751 |

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.139 Revision Date: 05-31-2024 |
|----------------------|--|

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