



Product: [76514TS](#)

MachFlex™, 14 Pr #26 Str TC, SRPVC Ins, OS+TC Brd, PVC Jkt, CMG

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Product Description

MachFlex™ for High Flex, 14 Pair 26AWG (7x34) Tinned Copper, SRPVC Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, PVC Outer Jacket, CMG

Technical Specifications

Product Overview

| | |
|------------------------|----------------------------------|
| Suitable Applications: | Robotics, Robot, Continuous Flex |
|------------------------|----------------------------------|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 14 | 26 AWG | 7x34 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---------|--------------------------|--------------------|--------------------------|---|
| Pair(s) | PVC - Polyvinyl Chloride | 0.010 in (0.25 mm) | 0.039 in (0.99 mm) | Black & Red, Black & white, Black & Green, Black & Blue, Black & Brown, Black & Yellow, Black & Orange, Red & Green, Red & White, Red & Blue, Red & Yellow, Red & Brown, Red & Orange, Green & Blue |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 26 AWG (7x34) TC |
| Braid | Tinned Copper (TC) | 85% | |

Outer Jacket

| Separator | Material | Nom. Thickness | Nom. Diameter |
|------------|--------------------------|-------------------|---------------|
| Paper Tape | PVC - Polyvinyl Chloride | 0.053 in (1.3 mm) | 0.426 in |

| | |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.426 in |
|-----------------------------------|----------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Characteristic Impedence |
|--------------------|-------------------------------|-------------------------------|
| 42 Ohm/1000ft | 21.4 pF/ft (70.2 pF/m) | 89 Ohm |

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. | Flexing Min. |
|------------------|-------------------|-----------------|
| 4.26 in (108 mm) | 6.4 in | 6.4 in (160 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 72 lbs (33 kg) |
| Bulk Cable Weight: | 102 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Sunlight Resistance |
| Flammability / Reaction to Fire: | UL1685 UL Loading, FT4 |
| NEC / UL Compliance: | Article 800, CM |
| AWM Compliance: | AWM 2661, AWM 10002, AWM I/II A/B |
| CEC / C(UL) Compliance: | CMG |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.135 Revision Date: 03-27-2024 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | UPC |
|-----------------|-------|------------|--------------|
| 76514TS 008100 | Gray | Reel | 612825411499 |
| 76514TS 0081000 | Gray | Reel | 612825411505 |
| 76514TS 008500 | Gray | Reel | 612825411512 |

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