



Product: [76514TS](#)

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

Request Sample

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: 0.136 Revision Date: 05-31-2024 |
|----------------------|--------------------------------------------------|

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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