



Product: <u>76406TS</u> ☑

MachFlex™, 6 Pr #28 Str TC, SRPVC Ins, OS+TC Brd, PVC Jkt, CMG

Request Sample

Product Description

MachFlex™ for High Flex, 6 Pair 28AWG (7x36) Tinned Copper, SRPVC Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, PVC Outer Jacket, CMG

Technical Specifications

| Product Overview | | | | | | | | | | |
|------------------------------------|----------|--------------|----------------|----------|----------------------------------|-------|----------|----------|---------|--|
| Suitable Appli | cations: | | | | Robotics, Robot, Continuous Flex | | | | | |
| Physical Characteristics (Overall) | | | | | | | | | | |
| Conductor | | | | | | | | | | |
| Element | AWG | Stranding | | Material | | No. | of Pairs | | | |
| Conductor(s) | 28 | 7x36 | TC - Tinned Co | | pper | 6 | | | | |
| Conductor Co | unt: | | | | 12 | | | | | |
| Total Number of Pairs: | | | | 6 | | | | | | |
| Insulation | | | | | | | | | | |
| Element | | Material | | Nominal | Dian | neter | Nomina | I Wall T | hicknes | |
| Conductor(s) | PVC - | Polyvinyl Ch | loride | 0.035 in | | | 0.010 in | | | |

Outer Shield

| Ту | ре | Material | Coverage [%] | Drainwire Material | Drainwire AWG |
|-----|-----|-------------------------|--------------|--------------------|---------------|
| Та | ре | Bi-Laminate (Alum+Poly) | 100% | TC - Tinned Copper | 26 |
| Bra | aid | Tinned Copper (TC) | 85% | | |

Outer Jacket

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.293 in | 0.040 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | | |
|-----------------------|--------------------------|--|--|
| 67 Ohm/1000ft | 3.5 Ohm/1000ft | | |

Capacitance

Nom. Capacitance Conductor to Conducto
19.7 pF/ft

Inductance

Nominal Inductance

Impedance

Nominal Characteristic Impedance
97 Ohm

Voltage



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: | 48 lbs/1000ft |
| Max. Pull Tension: | 24 lbs |
| Min. Bend Radius (Continuous Flexing): | 4.4 in |
| Min. Bend Radius/Minor Axis: | 2.9 in |

Standards

| NEC/(UL) Compliance: | СМ |
|--------------------------|---------------------|
| 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 |
|-----------------|-------|-------------|--------------|
| 76406TS 008100 | Gray | Reel | 612825411277 |
| 76406TS 0081000 | Gray | Reel | 612825411284 |

History

| Update and Revision: | Revision Number: 0.134 Revision Date: 05-31-2024 |
|----------------------|--------------------------------------------------|

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