



Part Number: 76710TS

MachFlex™ Continuous 300V Data, (10 pr) 22 AWG (19x34) TC, PVC/PVC, Foil+TC Braid Shld, AWM, CE, CM

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Product Description

Ten 22 AWG pairs stranded (19x34) tinned copper conductors, twisted pairs, lubricated semi-rigid PVC insulation, overall foil plus tinned copper braid shield (85% coverage), oil-resistant PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Pairs |
|-----------|-----|-----------|--------------------|--------------|
| Conductor | 22 | 19x34 | TC - Tinned Copper | 10 |

| | |
|------------------------|--------|
| Conductor Count: | 20 |
| Total Number of Pairs: | 10 |
| Conductor Size: | 22 AWG |

Insulation

| Element | Material | Nominal Diameter | Nominal Wall Thickness |
|-----------|--------------------------|------------------|------------------------|
| Conductor | PVC - Polyvinyl Chloride | 0.052 in | 0.010 in |

Outer Shield Material

| Type | Material | Coverage [%] | Drainwire Material | Drainwire AWG |
|-------|--------------------|--------------|--------------------|---------------|
| Tape | Aluminum/Mylar | 100 % | TC - Tinned Copper | 26 |
| Braid | TC - Tinned Copper | 85 % | | |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.497 in | 0.053 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 15.6 Ohm/1000ft | 2.4 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor |
|---|
| 26 pF/ft |

| | |
|------------|-----------------|
| Shielding: | Foil + Braid(s) |
|------------|-----------------|

Inductance

| Nominal Inductance |
|--------------------|
| .17 µH/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 73 Ohm |

Voltage

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

Temperature Range

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

Mechanical Characteristics

| | |
|---------------------------------------|------------------|
| Flex Cycle Rating: | 6 Million Cycles |
| Bulk Cable Weight: | 139 lbs/1000ft |
| Max Recommended Pulling Tension: | 130 lbs |
| Min Bend Radius (Continuous Flexing): | 7.5 in |
| Min Bend Radius/Minor Axis: | 5.0 in |

Standards

| | |
|--------------------------|---------------------|
| NEC/(UL) Specification: | CM |
| CEC/C(UL) Specification: | CMG |
| UL AWM Style: | AWM 2661, AWM 10002 |
| CSA AWM Specification: | 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 II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |

Suitability

| | |
|------------------------------------|-----|
| Suitability - Sunlight Resistance: | Yes |
|------------------------------------|-----|

Flammability, LS0H, Toxicity Testing

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

Part Number

Variants

| Item # | Color |
|-----------------|-------|
| 76710TS 008100 | Gray |
| 76710TS 0081000 | Gray |

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