

**Part Number: 76703TS**



MachFlex™ Continuous 300V Data, (3 pr) 22 AWG (19x34) TC, PVC/PVC, Foil+TC Braid Shld, AWM, CE, CM

## Product Description

Three 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

AWG	Stranding	Material	No. of Pairs
22	19x34	TC - Tinned Copper	3

Conductor Count:	6
Total Number of Pairs:	3
Conductor Size:	22 AWG

#### Insulation

Material	Nominal Diameter	Nominal Wall Thickness
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	0.301 in	0.040 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
15.6 Ohm/1000ft	3.6 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor
29 pF/ft

Shielding:	Foil + Braid(s)
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#### Inductance

Nominal Inductance
17 µH/ft

#### Impedance

Nominal Characteristic Impedance
87 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:	55 lbs/1000ft
Max Recommended Pulling Tension:	53 lbs
Min Bend Radius (Continuous Flexing):	4.5 in
Min Bend Radius/Minor Axis:	3.0 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
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## Flammability, LS0H, Toxicity Testing

CSA Flammability:	FT4
UL voltage rating:	300 V RMS

## Part Number

### Variants

Item #	Color
76703TS 008100	Gray
76703TS 0081000	Gray
76703TS 008500	Gray

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