



**Product:** [76403TS](#)

MachFlex™, 3 Pr #28 Str TC, SRPVC Ins, OS+TC Brd, PVC Jkt, CMG

[Request Sample](#)

## Product Description

MachFlex™ for High Flex, 3 Pair 28AWG (7x36) Tinned Copper, SRPVC Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, PVC Outer Jacket, CMG

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
28	7x36	TC - Tinned Copper	3

Conductor Count:	6
Total Number of Pairs:	3

#### Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.035 in	0.010 in

#### Outer Shield Material

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	100%	TC - Tinned Copper	26
Braid	Tinned Copper (TC)	85%		

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.240 in	0.040 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
67 Ohm/1000ft	4.4 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor
21.0 pF/ft

#### Inductance

Nominal Inductance
.22 µH/ft

#### Impedance

Nominal Characteristic Impedance
90 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:	34 lbs/1000ft
Max. Pull Tension:	14.4 lbs
Min Bend Radius (Continuous Flexing):	3.6 in
Min Bend Radius/Minor Axis:	2.4 in

## Standards

NEC/(UL) Compliance:	CM
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 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

## Suitability

Suitability - Sunlight Resistance:	Yes
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## Flammability, LSOH, Toxicity Testing

CSA Flammability:	FT4
UL voltage rating:	300 V RMS

## Part Number

### Variants

Item #	Color	Putup Type	UPC
76403TS 008100	Gray	Reel	612825411192
76403TS 0081000	Gray	Reel	612825411208
76403TS 008500	Gray	Reel	612825411215

## History

Update and Revision:	Revision Number: 0.59 Revision Date: 09-30-2020
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