



**Product:** [76405TS](#)

MachFlex™, 5 Pr #28 Str TC, SRPVC Ins, OS+TC Brd, PVC Jkt, CMG

[Request Sample](#)

**Product Description**

MachFlex™ for High Flex, 5 Pair 28AWG (7x36) Tinned Copper, SRPVC Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, PVC Outer Jacket, CMG

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

Element	AWG	Stranding	Material	No. of Pairs
Conductor(s)	28	7x36	TC - Tinned Copper	5

Conductor Count:	10
Total Number of Pairs:	5

**Insulation**

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	PVC - Polyvinyl Chloride	0.035 in	0.010 in

**Outer Shield**

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	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.274 in	0.040 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Nominal Outer Shield DCR
67 Ohm/1000ft	3.2 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 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:	43 lbs/1000ft
Max. Pull Tension:	21.2 lbs
Min. Bend Radius (Continuous Flexing):	4.1 in
Min. Bend Radius/Minor Axis:	2.7 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 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
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## Flammability, LSOH, Toxicity Testing

CSA Flammability:	FT4
UL voltage rating:	300 V RMS

## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	UPC
76405TS 008100	Gray	Reel	612825411246
76405TS 0081000	Gray	Reel	612825411253
76405TS 008500	Gray	Reel	612825411260

## History

Update and Revision:	Revision Number: 0.129 Revision Date: 04-08-2022
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