



Product: [76401TS](#)

MachFlex™, 2 C #28 Str TC, SRPVC Ins, OS+TC Brd, PVC Jkt, CMG

Request Sample

Product Description

MachFlex™ for High Flex, 2 Conductor 28AWG (7x36) Tinned Copper, SRPVC Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, PVC Outer Jacket, CMG

Technical Specifications

Product Overview

Suitable Applications:	Robotics, Robot, Continuous Flex
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	28 AWG	7x36	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.010 in (0.25 mm)	0.035 in (0.89 mm)	Black and Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	26 AWG (7x34) TC
Braid	Tinned Copper (TC)	85%	

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape	PVC - Polyvinyl Chloride	0.040 in (1.0 mm)	0.186 in

Overall Cable Diameter (Nominal):	0.186 in
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedence	Nom. Inductance Cond-Grnd	Max. Current
Pair(s)	65 Ohm/1000ft	27 pF/ft (89 pF/m)	49 pF/ft (160 pF/m)	70 Ohm	0.22 µH/ft	1.3 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-10°C To 105°C (Static), 5°C To 105°C (Dynamic)

Bend Radius

Stationary Min.	Installation Min.
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1.86 in (47.2 mm)	1.86 in
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Max. Pull Tension:	7.6 lbs (3.4 kg)
Bulk Cable Weight:	22 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	Article 800, CM
AWM Compliance:	AWM 2661, AWM 10002, AWM I/II A/B
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.146 Revision Date: 02-15-2024
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Part Numbers

Variants

Item #	Color	Putup Type	UPC
76401TS 008100	Gray	Reel	612825411154
76401TS 0081000	Gray	Reel	612825411161

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