



Product: <u>76002WS</u> ☑

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

Request Sample

Product Description

MachFlex™ for High Flex, 2 Conductor 28AWG (7x36) Tinned Copper, SRPVC Insulation, Overall Beldfoil®+Tinned Copper Serve(90%) Shield, PVC Outer Jacket, CMG

Technical Specifications

Product Overview

Suitable Applications:	Robotics, Robot, Continuous Flex	

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	28 AWG	7x36	TC - Tinned Copper

Insulation

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

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	26 AWG (7x34) TC
Spiral Serve / Screen	Tinned Copper (TC)	90%	

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape	PVC - Polyvinyl Chloride	0.040 in (1.0 mm)	0.174 in

Overall Cable Diameter (Nominal): 0.174 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence
66 Ohm/1000ft	27 pF/ft (89 pF/m)	70 Ohm

Voltage

UL Voltage Rating 300 V

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min. Installation Min. Flexing Min.

1.74 in (44.2 mm) 1.74 in	1.4 in (36 mm)
Max. Pull Tension:	6.9 lbs (3.1 kg)
Bulk Cable Weight:	19 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Sunlight Resistance
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: 0.145 Revision Date: 05-31-2024	

Part Numbers

Variants

Item #	Color	Putup Type	UPC
76002WS 008100	Gray	Reel	612825410324
76002WS 0081000	Gray	Reel	612825410331

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