


**Product:** [76007WS](#)
**MachFlex™, 7 C #28 Str TC, SRPVC Ins, OS+TC Srv, PVC Jkt, CMG**
[Request Sample](#)
**Product Description**

MachFlex™ for High Flex, 7 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, Robots, Continuous Flex
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**Construction Details**
**Conductor**

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	7	28	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 (0.89 mm)	Black, Red, White, Green, Orange, Blue, Brown

**Outer Shield**

Shield Type	Material	Coverage	Drainwire Type
Tape	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)	0.223 in

Overall Cable Diameter (Nominal): 0.223 in (5.66 mm)

**Electrical Characteristics**
**Electricals**

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Inductance	Max. Current
66 Ohm/1000ft	25 pF/ft (82 pF/m)	.220 $\mu$ H/ft (0.722 $\mu$ H/m)	1.4 Amps per Conductor at 25°C

Nom Outer Shield DCR: 5.4 Ohm/1000ft (18 Ohm/km)

**Voltage**

UL Voltage Rating	Voltage Rating
300 V (AWM 2661)	300 V (CSA AWM I/II A/B)

**Mechanical Characteristics**
**Temperature**

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

**Bend Radius**

Flexing Min.

1.8 in

Max. Pull Tension: 14.8 lbs (6.71 kg)

Bulk Cable Weight: 31 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 UL loading, FT4
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: 0.256 Revision Date: 09-07-2025

## Part Numbers

### Variants

Item #	Color	Putup Type	UPC
76007WS 008100	Gray	Reel	612825410430
76007WS 0081000	Gray	Reel	612825410447
76007WS 008500	Gray	Reel	612825410454

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