



**Product:** [MSS003](#)

MachFlex™ SERVO Symmetrical 610BCY, 3C4mm<sup>2</sup> + 3G0.75mm<sup>2</sup> Str BC, PP Ins, OS + TC Brd, PVC Jkt

## Product Description

MachFlex™ SERVO Symmetrical 610BCY, 3 Conductor 4mm<sup>2</sup> + 3 Ground 0.75mm<sup>2</sup> Stranded Bare Copper, PP Insulation, Overall Aluminum Foil Plus Tinned Copper Braid Shield, Black PVC Jacket, 1000V Flexible SERVO Motor Supply Cable

## Technical Specifications

### Product Overview

**Suitable Applications:** Designed for connecting servo controller with motor. Cable applications include motor speed control, printing machine, production machinery and machine tools. This type of cables suitable for plant engineering both of static or flexible use. Double screened power cable for large servo drive systems with high electrical load.

### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	3	4 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper
Ground	3	0.75 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper

#### Insulation

Element	Material	Color Code
Conductor(s)	PP - Polypropylene	Brown, Black, Gray
Ground	PP - Polypropylene	Yellow/Green #1, Yellow/Green #2, Yellow/Green #3

#### Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	70%

#### Outer Jacket

Material
PVC - Polyvinyl Chloride

Overall Cable Diameter (Nominal): 13.5 mm (0.531 in)

### Electrical Characteristics

#### Voltage

UL Voltage Rating	Voltage Rating
1000 V (Max. Operating Voltage)	600/1000 V (Max. Operating Voltage), 4000 V (Testing Voltage)

### Mechanical Characteristics

#### Temperature

Operating	Installation
-5°C to +80 °C ( Occasional movement)	-40°C to +80°C (Fixed installation)

#### Bend Radius

Installation Min.	Flexing Min.
54 mm (2.1 in)	202.5 mm (7.972 in)

Bulk Cable Weight:	287 kg/km (193 lbs/1000ft)
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## Standards and Compliance

Environmental Suitability:	Sunlight Resistance, UV Resistance, Oil Resistance - 70°C x 4h
Flammability / Reaction to Fire:	VW-1, FT1, IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2
AWM Compliance:	AWM 2570
CENELEC Compliance:	EN 50290-2-25, EN 50363-4-1
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2)

## History

Update and Revision:	Revision Number: 0.81 Revision Date: 07-05-2024
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## Part Numbers

### Variants

Item #	Color	Length
MSS003 010100M	Black	100 m
MSS003 010200M	Black	200 m
MSS003 010300M	Black	300 m
MSS003 F2V100M	Gray, RAL 7032	100 m
MSS003 F2V200M	Gray, RAL 7032	200 m
MSS003 F2V300M	Gray, RAL 7032	300 m

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