



Product: MSH004 ☑

MachFlex<sup>™</sup> SERVO Hybrid 610BY, 3C+1G 1.5mm<sup>2</sup> Str BC, PP Ins, 1 Pr 1.5mm<sup>2</sup> BC, PP Ins TC Brd, PVC Jkt

# **Product Description**

MachFlex™ SERVO Hybrid 610BY, 3 Conductor + 1 Ground 1.5mm² Stranded Bare Copper, PP Insulation, 1 Pair 1.5mm² Bare Copper, PP Insulation, Tinned Copper Braid Shield Over Each Pair, PVC Jacket, 1000V Flexible SERVO Motor Supply Cable

## **Technical Specifications**

### **Product Overview**

	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.

#### **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	3	1.5 mm²	Stranded	Class 5	BC - Bare Copper
Ground	1	1.5 mm²	Stranded	Class 5	BC - Bare Copper
Signal Pair(s)	1	1.5 mm²	Stranded	Class 5	BC - Bare Copper

## Insulation

Element	Material	Color Code	
Conductor(s)	PP - Polypropylene	Black #1, Black #2, Black #3	
Ground	PP - Polypropylene	Yellow/Green	
Signal Pair(s)	PP - Polypropylene	White&Black	

### Inner Shield

Element	Shield Type	Material	Coverage
Each Pair	Braid	Tinned Copper (TC)	85%

### **Outer Jacket**

Material	
PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	10.6 mm (0.417 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.

63.6 mm (2.50 in) 159 mm (6.26 in)

### **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: 0.94 Revision Date: 07-04-2024

## **Part Numbers**

### Variants

Item #	Color	Length
MSH004 010100M	Black	100 m
MSH004 010200M	Black	200 m
MSH004 010300M	Black	300 m

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