



# Product: MSH007

MachFlex<sup>™</sup> SERVO Hybrid 610BY, 3C+1G 2.5mm<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 2.5mm<sup>2</sup> Stranded Bare Copper, PP Insulation, 1 Pair 1.5mm<sup>2</sup> Bare Copper, PP Insulation, Tinned Copper Braid Shield Over Each Pair, 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.

### **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	3	2.5 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper
Ground	1	2.5 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper
Signal Pair(s)	1	1.5 mm <sup>2</sup>	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):	12.0 mm (0.472 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.

72 mm (2.8 in) 180 mm (7.1 in)

Bulk Cable Weight: 220 kg/km (150 lbs/1000ft)

## 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: 07-05-2024

#### **Part Numbers**

#### Variants

ltem #	Color	Length
MSH007 010100M	Black	100 m
MSH007 010200M	Black	200 m
MSH007 010300M	Black	300 m

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