



Product: MSHCY030 ☑

MachFlex<sup>™</sup> SERVO Hybrid 610BCY, 3C+1G 10mm<sup>2</sup> Str BC, PP Ins, 1 Pr 1.0mm<sup>2</sup> BC, PP Ins IS, Overall TC Brd, PVC Jkt

# **Product Description**

MachFlex™ SERVO Hybrid 610BCY, 3 Conductor +1 Ground 10mm² Stranded Bare Copper, PP Insulation, 1 Pair 1.0mm² Bare Copper, PP Insulation, Aluminium Foil Plus Tinned Copper Braid Shield Over Each pair, Overall Tinned Copper Braid Shield, PVC Outer 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
Cultubio / (ppiloutiono:	suitable for plant engineering both of static or flexible use. Signal pair shield plus overall shield ensure good performance on EMI/RFI resistance.

## **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	3	10 mm²	Stranded	Class 5	BC - Bare Copper
Ground	1	10 mm²	Stranded	Class 5	BC - Bare Copper
Signal Pair(s)	1	1 mm²	Stranded	Class 5	BC - Bare Copper

## Insulation

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

#### Inner Shield

Element	Shield Type	Material	Coverage
Each Pair	Таре	Bi-Laminate (Alum+Poly)	100%
Each Pair	Braid	Tinned Copper (TC)	85%

# Outer Shield

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

# Outer Jacket

PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	18.7 mm (0.736 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.
112.2 mm (4.417 in)	280.5 mm (11.04 in)
Bulk Cable Weight:	651 kg/km (437

## **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 50290-2-25EN 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

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ate: 07-05-2024	

## **Part Numbers**

#### Variants

Item #	Color	Length
MSHCY030 003100M	Orange, RAL 2003	100 m
MSHCY030 003200M	Orange, RAL 2003	200 m
MSHCY030 003300M	Orange, RAL 2003	300 m

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