



Product: [MSHCY033](#)

MachFlex™ SERVO Hybrid 610BCY, 3C+1G 10mm² Str BC, PP Ins, 1 Pr 1.0mm² + 1 Pr 1.5mm² BC, PP Ins IS + TC Brd, 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 +1 Pair 1.5mm² 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 suitable for plant engineering both of static or flexible use. Signal pair shield plus overall shield ensure good performance on EMI/RFI resistance.
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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 #1	1	1 mm²	Stranded	Class 5	BC - Bare Copper
Signal Pair #2	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 Wire	PP - Polypropylene	Yellow/Green
Pair(s)	PP - Polypropylene	Black #5&Black#6
Pair(s)		

Inner Shield

Element	Shield Type	Material	Coverage
Each Pair	Tape	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

Material
PVC - Polyvinyl Chloride

Overall Cable Diameter (Nominal):	21.2 mm (0.835 in)
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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.
127.2 mm (5.008 in)	318 mm (12.5 in)

Bulk Cable Weight: 805 kg/km (541 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: 0.110 Revision Date: 07-05-2024
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Part Numbers

Variants

Item #	Color	Length
MSHCY033 003100M	Orange, RAL 2003	100 m
MSHCY033 003200M	Orange, RAL 2003	200 m
MSHCY033 003300M	Orange, RAL 2003	300 m

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