



Product: [MSH005](#)

MachFlex™ SERVO Hybrid 610BY, 3C+1G 2.5mm² Str BC, PP Ins, 1 Pr 0.75mm² BC, PP Ins TC Brd, PVC Jkt

Product Description

MachFlex™ SERVO Hybrid 610BY, 3 Conductor + 1 Ground 2.5mm² Stranded Bare Copper, PP Insulation, 1 Pair 0.75mm² 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.
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	3	2.5 mm ²	Stranded	Class 5	BC - Bare Copper
Ground	1	2.5 mm ²	Stranded	Class 5	BC - Bare Copper
Signal Pair(s)	1	0.75 mm ²	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):	11.1 mm (0.437 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.

66.6 mm (2.62 in) 166.5 mm (6.555 in)

Bulk Cable Weight: 192 kg/km (129 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
GENELEC 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

Item #	Color	Length
MSH005 010100M	Black	100 m
MSH005 010200M	Black	200 m
MSH005 010300M	Black	300 m

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