



Product: MSH019 ☑

MachFlex[™] SERVO Hybrid 610BY, 3C+1G 4mm² Str BC, PP Ins, 1 Pr 0.75mm² + 1 Pr 1.0mm² BC, PP Ins IS + TC Brd, PVC Jkt

Product Description

MachFlex™ SERVO Hybrid 610BY, 3 Conductor + 1 Ground 4mm² Stranded Bare Copper, PP Insulation, 1 Pair 0.75mm² + 1 Pair 1.0mm² Bare Copper, PP Insulation, Aluminium Foil and 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
Canadio , applicatione.	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	4 mm²	Stranded	Class 5	BC - Bare Copper
Ground	1	4 mm²	Stranded	Class 5	BC - Bare Copper
Signal Pair #1	1	0.75 mm ²	Stranded	Class 5	BC - Bare Copper
Signal Pair #2	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	PP - Polypropylene	Yellow/Green
Signal Pair #1	PP - Polypropylene	Black #5&Black #6
Signal Pair #2	PP - Polypropylene	

Inner Shield

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

Outer Jacket

Material	
PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	14.9 mm (0.587 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

89.4 mm (3.52 in) 223.	(3.52 in)	223.5 mm (8.799 in)
		: 336 kg/kn

Standards and Compliance

Installation Min. Flexing Min

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: 0.31 Revision Date: 07-05-2024

Part Numbers

Variants

Item #	Color	Length
MSH019 010100M	Black	100 m
MSH019 010200M	Black	200 m
MSH019 010300M	Black	300 m

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