



Product: MSH001 ☑

MachFlex[™] SERVO Hybrid 610BY, 3C+1G 0.75mm² Str BC, PP Ins, 2 Pr 0.34mm² BC, PP Ins IS + TC Brd, PVC Jkt

Product Description

MachFlex™ SERVO Hybrid 610BY, 3 Conductor + 1 Ground 0.75mm² Stranded Bare Copper, PP Insulation, 2 Pair 0.34mm² 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
Cultural of Applications.	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	0.75 mm ²	Stranded	Class 5	BC - Bare Copper
Ground	1	0.75 mm ²	Stranded	Class 5	BC - Bare Copper
Signal Pair(s)	2	0.34 mm ²	Stranded	Class 5	BC - Bare Copper

Insulation

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

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):	9.1 mm (0.36 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.
54.6 mm (2.15 in)	136.5 mm (5.374 in)

Bulk Cable Weight: 121 kg/km (81.3 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 50290-2-25EN 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

Update and Revision: Revision Number: 0.99 Revision Date: 11-28-2023	
--	--

Part Numbers

Variants

Item #	Color	Length
MSH001 010100M	Black	100 m
MSH001 010200M	Black	200 m
MSH001 010300M	Black	300 m

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.