



Product: MSHCY002 ☑

MachFlex[™] SERVO Hybrid 610BCY, 3C+1G 0.75mm² Str BC, PP Ins, 1 Pr 0.5mm² BC, PP Ins Individual TC Brd, Overall TC Brd, PVC Jkt

Product Description

MachFlex™ SERVO Hybrid 610BCY, 3 Conductor +1 Ground 0.75mm² Stranded Bare Copper, PP Insulation, 1 Pair 0.5mm² 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
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	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)	1	0.5 mm ²	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&Black

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

Material	
PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	9.2 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

Standards and Compliance

Environmental Suitability:	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: 0.113 Revision Date: 07-15-2024

Part Numbers

Variants

Item #	Color	Length
MSHCY002 003100M	Orange, RAL 2003	100 m
MSHCY002 003200M	Orange, RAL 2003	200 m
MSHCY002 003300M	Orange, RAL 2003	300 m

© 2025 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.