



**Product:** [MSC005](#)

MachFlex™ SERVO Classic 610BCY, 3C+1G 10mm<sup>2</sup> Str BC, PP Ins, OS + TC Brd, PVC Jkt

## Product Description

MachFlex™ SERVO Classic 610BCY, 3 Conductor +1 Ground 10mm<sup>2</sup> Stranded Bare Copper, PP Insulation, Overall Aluminum Foil Plus Tinned Copper Braid Shield, PVC Outer Jacket, 1000V Flexible SERVO Motor Supply Cable

## Technical Specifications

### Product Overview

**Suitable Applications:** Designed for connecting frequency converter and motor. Cable applications include heavy industry, chemical industry and paper industry in dry, damp or wet interiors. This type of cables suitable for plant engineering both of static or flexible use. Double screened power cable for large servo drive systems with high electrical load.

### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	3	10 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper
Ground	1	10 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper

#### Insulation

Element	Material	Color Code
Conductor(s)	PP - Polypropylene	Brown, Black, Gray
Ground	PP - Polypropylene	Yellow/Green

#### Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	70%

#### Outer Jacket

Material
PVC - Polyvinyl Chloride

Overall Cable Diameter (Nominal): 18.1 mm (0.713 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.
72.4 mm (2.85 in)	271.5 mm (10.69 in)

Bulk Cable Weight:	579 kg/km (389 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: 0.78 Revision Date: 07-05-2024
----------------------	---

## Part Numbers

### Variants

Item #	Color	Length
MSC005 368100M	Clear, Transparent	100 m
MSC005 368200M	Clear, Transparent	200 m
MSC005 368300M	Clear, Transparent	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.