



**Product:** [MSS006](#)

MachFlex™ SERVO Symmetrical 610BCY, 3C16mm<sup>2</sup> + 3G2.5mm<sup>2</sup> Str BC, PP Ins, OS + TC Brd, PVC Jkt

## Product Description

MachFlex™ SERVO Symmetrical 610BCY, 3 Conductor 16mm<sup>2</sup> + 3 Ground 2.5mm<sup>2</sup> Stranded Bare Copper, PP Insulation, Overall Aluminum Foil Plus Tinned Copper Braid Shield, Black 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. 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               | 16 mm <sup>2</sup>  | Stranded  | Class 5         | BC - Bare Copper |
| Ground       | 3               | 2.5 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 #1, Yellow/Green #2, Yellow/Green #3 |

#### 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): | 20.1 mm (0.791 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.        |
|-------------------|---------------------|
| 80.4 mm (3.17 in) | 301.5 mm (11.87 in) |

|                    |                            |
|--------------------|----------------------------|
| Bulk Cable Weight: | 799 kg/km (537 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: 0.81 Revision Date: 07-05-2024 |
|----------------------|---|

## Part Numbers

### Variants

| Item #         | Color          | Length |
|----------------|----------------|--------|
| MSS006 010100M | Black          | 100 m  |
| MSS006 010200M | Black          | 200 m  |
| MSS006 010300M | Black          | 300 m  |
| MSS006 F2V100M | Gray, RAL 7032 | 100 m  |
| MSS006 F2V200M | Gray, RAL 7032 | 200 m  |
| MSS006 F2V300M | Gray, RAL 7032 | 300 m  |

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