



Product: [MSC006](#)

MachFlex™ SERVO Classic 610BCY, 3C+1G 16mm² Str BC, PP Ins, OS + TC Brd, PVC Jkt

Product Description

MachFlex™ SERVO Classic 610BCY, 3 Conductor +1 Ground 16mm² 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 | 16 mm ² | Stranded | Class 5 | BC - Bare Copper |
| Ground | 1 | 16 mm ² | 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): 21.9 mm (0.862 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. |
|-------------------|---------------------|
| 87.6 mm (3.45 in) | 328.5 mm (12.93 in) |

| | |
|--------------------|----------------------------|
| Bulk Cable Weight: | 942 kg/km (633 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 |
|----------------|--------------------|--------|
| MSC006 368100M | Clear, Transparent | 100 m |
| MSC006 368200M | Clear, Transparent | 200 m |
| MSC006 368300M | Clear, Transparent | 300 m |

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