BELDEN

Product: MSC002 ☒

MachFlex™ SERVO Classic 610BCY, 3C+1G 2.5mm² Str BC, PP Ins, OS + TC Brd, PVC Jkt

Product Description

MachFlex™ SERVO Classic 610BCY, 3 Conductor +1 Ground 2.5mm² 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	2.5 mm²	Stranded	Class 5	BC - Bare Copper
Ground	1	2.5 mm²	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):	11.7 mm (0.461 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.
46.8 mm (1.84 in)	175.5 mm (6.909 in)

Bulk Cable Weight:	200 kg/km (130 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: 0.78 Revision Date: 07-05-2024

Part Numbers

Variants

Item #	Color	Length
MSC002 368100M	Clear, Transparent	100 m
MSC002 368200M	Clear, Transparent	200 m
MSC002 368300M	Clear, Transparent	300 m