



Product: [C7G0.5SY](#) 

MachFlex™ 375SY Control Cable, 6 C + 1 G 0.5 mm² Str BC, PVC Ins, PVC Inner Jkt, GSWB, PVC Outer Jkt

Product Description

MachFlex™ 375SY Control Cable, 6 Conductor + 1 Ground 0.5 mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Galvanized Steel Wire Braid, PVC Outer Jacket

Technical Specifications

Product Overview

Suitable Applications:	Designed for applications which are installed in occasional flexing and fixed locations. Cable applications include precision control sensors, multi axis control machines, temperature controllers, control panels, machine cutting tools, auxiliary equipment, motor speed control, production machinery and many more. Galvanized steel wire braid armor provides excellent mechanical protection.
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	6	0.5 mm ²	Stranded	Class 5	BC - Bare Copper
Ground	1	0.5 mm ²	Stranded	Class 5	BC - Bare Copper

Insulation

Element	Material	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	White, Black, Blue, Brown, Grey, Red
Ground	PVC - Polyvinyl Chloride	Yellow/Green

Inner Jacket

Material
PVC - Polyvinyl Chloride

Armor

Armor Type & Material
SWB - Steel Wire Braid Armor

Outer Jacket

Material
PVC - Polyvinyl Chloride

Overall Cable Diameter (Nominal):	9.5 mm (0.37 in)
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Electrical Characteristics

Voltage

Voltage Rating
300/500 V (Max. Operating Voltage), 4000 V (Testing Voltage)

Mechanical Characteristics

Temperature

Operating	Installation
-5°C to +70°C (Occasional movement)	-40°C to +80°C (Fixed installation)

Bend Radius

Installation Min.	Flexing Min.
57 mm (2.2 in)	190 mm

Bulk Cable Weight:	136 kg/km (91.4 lbs/1000ft)
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Standards and Compliance

Environmental Suitability:	Sunlight Resistance, UV Resistance, Oil Resistance - EN 50290-2-22 (TM54)
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2
ISO/IEC Compliance:	IEC 60228, IEC 60227-5
CENELEC Compliance:	EN 50290-2-22
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
Other Standard Compliance(s):	VDE 0295, DIN VDE 0207-363-4-1, EN 50525-2-51, BS 6360

History

Update and Revision:	Revision Number: 0.29 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Length
C7G0.5SY 010100M	Black, RAL 9004	100 m
C7G0.5SY 010200M	Black, RAL 9004	200 m
C7G0.5SY 010300M	Black, RAL 9004	300 m
C7G0.5SY G8U100M	Gray, RAL 7001	100 m
C7G0.5SY G8U200M	Gray, RAL 7001	200 m
C7G0.5SY G8U300M	Gray, RAL 7001	300 m
C7G0.5SY 368100M	Transparent	100 m
C7G0.5SY 368200M	Transparent	200 m
C7G0.5SY 368300M	Transparent	300 m

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