



**Product:** [H5G6SY](#)

MachFlex™ 610 SY, 4C + 1G 6 mm<sup>2</sup> Str BC, PVC Ins, PVC Inner Jkt, GSW Brd, PVC Outer Jkt

## Product Description

MachFlex™ 610 SY Control Cable 4 Conductor + 1 Ground 6 mm<sup>2</sup> Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Galvanized Steel Wire Braiding Armor, 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)	4	6 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper
Ground	1	6 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper

#### Insulation

Element	Material	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	Black #1, Black #2, Black #3, Black #4
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):	19.4 mm (0.764 in)
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### Electrical Characteristics

#### Voltage

Voltage Rating
600 / 1000 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.
116.4 mm (4.583 in)	388 mm (15.3 in)

Bulk Cable Weight: 684 kg/km (460 lbs/1000ft)

## Standards and Compliance

Environmental Suitability:	UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 048233212, DIN EN 6033212
ISO/IEC Compliance:	IEC 60228
CENELEC Compliance:	EN 50290-2-22
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2)
Other Standard Compliance(s):	VDE 0295, DIN VDE 0207-363-4-1, IEC 60227-5, EN 50525-2-51, BS 6360

## History

Update and Revision: Revision Number: 0.19 Revision Date: 07-05-2024

## Part Numbers

### Variants

Item #	Color	Length
H5G6SY 010100M	Black	100 m
H5G6SY 010200M	Black	200 m
H5G6SY 010300M	Black	300 m
H5G6SY G8U100M	Gray, RAL 7001	100 m
H5G6SY G8U200M	Gray, RAL 7001	200 m
H5G6SY G8U300M	Gray, RAL 7001	300 m
H5G6SY 003100M	Orange	100 m
H5G6SY 003200M	Orange	200 m
H5G6SY 003300M	Orange	300 m

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