



**Product:** [H3G1.0](#)

MachFlex™ 610YY Control & Power Cable, 2+1G C 1.0mm<sup>2</sup> Str BC, PVC Ins, PVC Jkt

### Product Description

MachFlex™ 610YY Control & Power Cable, 2 Conductor + 1 Ground 1.0mm<sup>2</sup> Stranded Bare Copper, PVC Insulation, PVC 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.

#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	2	1 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper
Ground	1	1 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper

##### Insulation

Element	Material	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	Black #1, Black #2
Ground	PVC - Polyvinyl Chloride	Yellow/Green

##### Outer Jacket

Material
PVC - Polyvinyl Chloride

Overall Cable Diameter (Nominal): 8.9 mm (0.35 in)

#### 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.
35.6 mm (1.40 in)	133.5 mm (5.256 in)

Bulk Cable Weight: 109 kg/km (73.2 lbs/1000ft)

#### 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 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):	IEC 60227-5, EN 50525-2-51, DIN VDE 0207-363-4-1, VDE 0295, BS 6360

## History

Update and Revision:	Revision Number: 0.24 Revision Date: 11-27-2023
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## Part Numbers

### Variants

Item #	Color	Length
H3G1.0 010100M	Black	100 m
H3G1.0 010200M	Black	200 m
H3G1.0 010300M	Black	300 m
H3G1.0 006100M	Blue	100 m
H3G1.0 006200M	Blue	200 m
H3G1.0 006300M	Blue	300 m
H3G1.0 G8U100M	Gray, RAL 7001	100 m
H3G1.0 G8U200M	Gray, RAL 7001	200 m
H3G1.0 G8U300M	Gray, RAL 7001	300 m

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