



Product: <u>H3G35CY</u> ☑

MachFlex<sup>™</sup> 610CY Control & Power Cable, 2C+1G 35 mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

## **Product Description**

MachFlex™ 610CY Control & Power Cable, 2 Conductor + 1 Ground 35 mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Tinned Copper Braid Shield, 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. Tinned copper braid shield ensures cables with excellent noise immunity.

#### **Construction Details**

#### Conductor

	Element	No. of Elements	Size	Stranding	Stranding Class	Material
С	Conductor(s)	2	35 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper
G	round	1	35 mm²	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 Shield

Shield Type	Material	
Braid	Tinned Copper (TC)	

# Inner Jacket



## Outer Jacket



Overall Cable Diameter (Nominal):

28.5 mm (1.12 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.
171 mm (6.73 in)	570 mm (22 in)

Bulk Cable Weight: 1716 kg/km (1153 lbs/1000ft)

## **Standards and Compliance**

Environmental Suitability:	Sunlight Resistance, UV 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):	VDE 0295, DIN VDE 0207-363-4-1, IEC 60227-5, EN 50525-2-51, BS 6360

#### **History**

Update and Revision:	Revision Number: 0.68 Revision Date: 07-05-2024

#### **Part Numbers**

#### Variants

Color	Length
Black	100 m
Black	200 m
Black	300 m
Gray, RAL 7001	100 m
Gray, RAL 7001	200 m
Gray, RAL 7001	300 m
Orange	100 m
Orange	200 m
Orange	300 m
	Black Black Black Gray, RAL 7001 Gray, RAL 7001 Gray, RAL 7001 Orange Orange

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