




**Product:** [H12G2.5CY](#) 

MachFlex™ 610CY, 11+1G C 2.5mm<sup>2</sup> Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

## Product Description

MachFlex™ 610CY, 11 Conductor + 1 Ground 2.5mm<sup>2</sup> 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.
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### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	2.5 mm <sup>2</sup>	Class 5	BC - Bare Copper	11
Ground	2.5 mm <sup>2</sup>	Class 5	BC - Bare Copper	1

Conductor Count: 12

#### Insulation

Material
PVC - Polyvinyl Chloride

#### Color Chart

Color
Black #1
Black #2
Black #3
Black #4
Black #5
...
Black #11
Green/Yellow

#### Inner Jacket

Material
PVC - Polyvinyl Chloride

#### Outer Shield

Type	Material
Braid	Tinned Copper (TC)

#### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	21.6 mm

### Electrical Characteristics

## Conductor DCR

<b>Max. Conductor DCR</b>
7.98 Ohm/km

## Voltage

Dielectric Withstand Voltage	Non-UL Description	Non-UL Voltage Rating
4000 V	IEC:	600/1000 V

## Temperature Range

Installation Temp Range:	-40°C to +80°C
Operating Temp Range:	-5°C to +70°C

## Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	766 kg/km
Min. Bend Radius During Installation:	6 x OD
Min. Bend Radius During Operation:	20 x OD

## Standards

Other Specification:	IEC 60227-5, EN 50525-2-51, VDE 0281-13
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## Applicable Environmental and Other Programs

EU Directive 2011/65/EU (RoHS 2):	Yes
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## Suitability

Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

## Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
Other Flammability:	DIN VDE 0482-332-1-2, DIN EN 60332-1-2

## Part Number

### Variants

Item #	Color	Length
H12G2.5CY 010200M	Black, RAL 9005	200 m
H12G2.5CY 010305M	Black, RAL 9005	305 m
H12G2.5CY G8U200M	Gray, RAL 7001	200 m
H12G2.5CY G8U305M	Gray, RAL 7001	305 m
H12G2.5CY 003200M	Orange, RAL 2003	200 m
H12G2.5CY 003305M	Orange, RAL 2003	305 m

## History

Update and Revision:	Revision Number: 0.36 Revision Date: 12-15-2021
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