



Product: H3G10CY

MachFlex[™] 610CY Control & Power Cable, 2C+1G 10 mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

Product Description

MachFlex[™] 610CY Control & Power Cable, 2 Conductor + 1 Ground 10 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.
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	2	10 mm ²	Stranded	Class 5	BC - Bare Copper
Ground	1	10 mm ²	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

Material

PVC - Polyvinyl Chloride

Outer Jacket

Material PVC - Polyvinyl Chlorid	le
Overall Cable Diameter (Nominal):	20.1 mm (0.791 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.

 120.6 mm (4.748 in)
 402 mm (15.8 in)

Bulk Cable Weight: 698 kg/km (469 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:		
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: 0.48 Revision Date: 07-05-2024

Part Numbers

Variants ltem # Color Length H3G10CY 010100M Black 100 m H3G10CY 010200M Black 200 m H3G10CY 010300M 300 m Black H3G10CY G8U100M Gray, RAL 7001 100 m H3G10CY G8U200M Gray, RAL 7001 200 m H3G10CY G8U300M Gray, RAL 7001 300 m H3G10CY 003100M Orange 100 m H3G10CY 003200M Orange 200 m H3G10CY 003300M Orange 300 m

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