



Product: [H2X1.0SY](#) 

MachFlex™ 610 SY, 2C 1 mm² Str BC, PVC Ins, PVC Inner Jkt, GSW Brd, PVC Outer Jkt

Product Description

MachFlex™ 610 SY Control Cable 2 Conductor 1 mm² 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)	2	1 mm ²	Stranded	Class 5	BC - Bare Copper

Insulation

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

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):	11.1 mm (0.437 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.
66.6 mm (2.62 in)	222 mm (8.74 in)

Bulk Cable Weight: 165 kg/km (111 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: 0.18 Revision Date: 07-15-2024

Part Numbers

Variants

Item #	Color	Length
H2X1.0SY 010100M	Black	100 m
H2X1.0SY 010200M	Black	200 m
H2X1.0SY 010300M	Black	300 m
H2X1.0SY G8U100M	Gray, RAL 7001	100 m
H2X1.0SY G8U200M	Gray, RAL 7001	200 m
H2X1.0SY G8U300M	Gray, RAL 7001	300 m
H2X1.0SY 003100M	Orange	100 m
H2X1.0SY 003200M	Orange	200 m
H2X1.0SY 003300M	Orange	300 m

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