



Product: [4G0.5SY](#)

MachFlex™ 350SY, 3C+1G 0.5 mm² Str BC, PVC Ins, PVC Inner Jkt, GSW Brd, PVC Outer Jkt

Product Description

MachFlex™ 350SY VDE Certified, 3 Conductor + 1 Ground 0.5 mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Galvanized Steel Wire Braid, PVC Outer Jacket Control Cable

Technical Specifications

Product Overview

Suitable Applications:	Application for occasional flexing or fixed installation connecting precision control sensors, multi axis control machines, temperature controllers, control panels, machine cutting tools, auxiliary equipment, motor speed control, production machinery and many more in harsh industrial environment.
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Construction Details

Conductor					
Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	3	0.5 mm²	Stranded	Class 5	BC - Bare Copper
Ground	1	0.5 mm²	Stranded	Class 5	BC - Bare Copper

Insulation		
Element	Material	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	Black #1, Black #2, Black #3
Ground	PVC - Polyvinyl Chloride	Yellow/Green

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):	8.2 mm (0.32 in)

Electrical Characteristics

Voltage	
Voltage Rating	300 / 500 V (Max. Operating Voltage)

Mechanical Characteristics

Temperature	
Operating	Installation
-15°C to +70°C (Occasional movement)	-40°C to +80°C(Fixed installation)

Bend Radius

Installation Min.	Flexing Min.
49.2 mm (1.94 in)	164 mm (6.46 in)

Bulk Cable Weight:	95 kg/km (64 lbs/1000ft)
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Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Oil Resistance - EN 50290-2-22 (TM54), Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 048233212
Third Party Performance Verification:	VDE Certification No. 40041970, VDE Registration No. 8770
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	VDE 0285-525-2-51, EN 50525-2-51, IEC 60227-5

History

Update and Revision:	Revision Number: 0.28 Revision Date: 03-19-2024
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Part Numbers

Variants

Item #	Color	Length
4G0.5SY 010100M	Black, RAL 9004	100 m
4G0.5SY 010200M	Black, RAL 9004	200 m
4G0.5SY 010300M	Black, RAL 9004	300 m
4G0.5SY G8U100M	Gray, RAL 7001	100 m
4G0.5SY G8U200M	Gray, RAL 7001	200 m
4G0.5SY G8U300M	Gray, RAL 7001	300 m
4G0.5SY 368100M	Transparent	100 m
4G0.5SY 368200M	Transparent	200 m
4G0.5SY 368300M	Transparent	300 m

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