



**Product:** [12X0.5](#) 

MachFlex™ 350YY, 12 C 0.5mm² Str BC, PVC Ins, PVC Jkt

**Product Description**

MachFlex™ 350YY Control VDE Certified, 12 Conductor 0.5mm² Stranded Bare Copper, PVC Insulation, PVC 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.
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**Physical Characteristics (Overall)**

<b>Conductor</b>				
Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	0.5 mm²	Class 5	BC - Bare Copper	12
Conductor Count:		12		

Insulation
Material
PVC - Polyvinyl Chloride

**Color Chart**

Color
Black #1
Black #2
Black #3
Black #4
Black #5
...
Black #12

Outer Jacket	
Material	Nominal Diameter
PVC - Polyvinyl Chloride	9.2 mm

**Electrical Characteristics**

Conductor DCR
Max. Conductor DCR
39 Ohm/km

Voltage		
Dielectric Withstand Voltage	Non-UL Description	Non-UL Voltage Rating
4000 V	IEC:	300/500 V

**Temperature Range**

Installation Temperature Range:	-40°C to +80°C
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Operating Temperature Range:	-15°C to +70°C
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Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	126 kg/km
Min. Bend Radius During Installation:	4 x OD
Min. Bend Radius During Operation:	10 x OD

Standards

Other Specification:	IEC 60227-5, EN 50525-2-51, VDE 0281-13
Third Party Performance Verification:	VDE Certification No. 40041970, VDE Registration No. 8770

Applicable Environmental and Other Programs

EU Directive 2011/65/EU (RoHS 2):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LSOH, Toxicity Testing

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

Related Part Numbers

Variants

Item #	Color	Length
12X0.5 010500M	Black, RAL 9005	500 m
12X0.5 0101000M	Black, RAL 9005	1,000 m
12X0.5 G8U500M	Gray, RAL 7001	500 m
12X0.5 G8U1000M	Gray, RAL 7001	1,000 m

History

Update and Revision:	Revision Number: 0.37 Revision Date: 04-08-2022
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