


**Product:** [16G0.5](#) 



MachFlex™ 350YY, 15+1G C 0.5mm<sup>2</sup> Str BC, PVC Ins, PVC Jkt

## Product Description

MachFlex™ 350YY Control VDE Certified, 15 Conductor + 1 Ground 0.5mm<sup>2</sup> 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)

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	0.5 mm <sup>2</sup>	Class 5	BC - Bare Copper	15
Ground	0.5 mm <sup>2</sup>	Class 5	BC - Bare Copper	1

Conductor Count: 16

#### Insulation

Material
PVC - Polyvinyl Chloride

#### Color Chart

Color
Black #1
Black #2
Black #3
Black #4
Black #5
...
Black #15
Green/Yellow

#### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	10.3 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
Operating Temperature Range:	-15°C to +70°C

## Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	164 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, LS0H, 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
16G0.5 010500M	Black, RAL 9005	500 m
16G0.5 0101000M	Black, RAL 9005	1,000 m
16G0.5 G8U500M	Gray, RAL 7001	500 m
16G0.5 G8U1000M	Gray, RAL 7001	1,000 m

## History

Update and Revision:	Revision Number: 0.42 Revision Date: 04-08-2022
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