

**Product:** [12X4](#) 



MachFlex™ 350YY, 12 C 4mm<sup>2</sup> Str BC, PVC Ins, PVC Jkt

## Product Description

MachFlex™ 350YY Control VDE Certified, 12 Conductor 4mm<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.

### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	4 mm <sup>2</sup>	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

Nominal Diameter
18.3 mm

### Electrical Characteristics

#### Conductor DCR

Max. Conductor DCR
4.95 Ohm/km

#### Voltage

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

### Temperature Range

Installation Temp Range: -40°C to +80°C

Operating Temp Range:	-15°C to +70°C
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## Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	685 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
12X4 010305M	Black, RAL 9005	305 m
12X4 010500M	Black, RAL 9005	500 m
12X4 G8U305M	Gray, RAL 7001	305 m
12X4 G8U500M	Gray, RAL 7001	500 m

## History

Update and Revision:	Revision Number: 0.16 Revision Date: 12-15-2021
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