

Product: [3G16](#) 



MachFlex™ 350YY, 2+1G C 16mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ 350YY Control VDE Certified, 2 Conductor + 1 Ground 16mm² 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)	16 mm ²	Class 5	BC - Bare Copper	2
Ground	16 mm ²	Class 5	BC - Bare Copper	1

Conductor Count: 3

Insulation

Material
PVC - Polyvinyl Chloride

Color Chart

Color
Black #1
Black #2
Green/Yellow

Outer Jacket

Nominal Diameter
18.1 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
1.21 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

Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	708 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

Part Number

Variants

Item #	Color	Length
3G16 010200M	Black, RAL 9005	200 m
3G16 010305M	Black, RAL 9005	305 m
3G16 G8U200M	Gray, RAL 7001	200 m
3G16 G8U305M	Gray, RAL 7001	305 m

History

Update and Revision:	Revision Number: 0.18 Revision Date: 12-15-2021
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