



**Product:** [34G1.0](#)

MachFlex™ 350YY, 33C+1G 1 mm<sup>2</sup> Str BC, PVC Ins, PVC Jkt

## Product Description

MachFlex™ 350YY Control VDE Certified, 33 Conductor + 1 Ground 1 mm<sup>2</sup> Stranded Bare Copper, PVC Insulation, PVC Jacket

## Technical Specifications

### Product Overview

Suitable Applications:	Applicable 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.
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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	33	1 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper
Ground	1	1 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper

#### Insulation

Element	Material	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, Black #7, Black #8, Black #9, Black #10, Black #11, Black #12, Black #13, Black #14, Black #15, Black #16, Black #17, Black #18, Black #19, Black #20, Black #21, Black #22, Black #23, Black #24, Black #25, Black #26, Black #27, Black #28, Black #29, Black #30, Black #31, Black #32, Black #33
Ground	PVC - Polyvinyl Chloride	Yellow/Green

#### Outer Jacket

Material	
PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	17.7 mm (0.697 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.
70.8 mm (2.79 in)	177 mm (6.97 in)

Bulk Cable Weight:	534 kg/km (359 lbs/1000ft)
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### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Oil Resistance - EN 50290-2-22 (TM54)
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 048233212, DIN EN 6033212
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, IEC 60227-5, EN 50525-2-51

## History

Update and Revision:	Revision Number: 0.68 Revision Date: 03-19-2024
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## Part Numbers

### Variants

Item #	Color	Length
34G1.0 010100M	Black, RAL 9004	100 m
34G1.0 010200M	Black, RAL 9004	200 m
34G1.0 010300M	Black, RAL 9004	300 m
34G1.0 F2V100M	Gray, RAL 7001	100 m
34G1.0 G8U100M	Gray, RAL 7001	100 m
34G1.0 F2V200M	Gray, RAL 7001	200 m
34G1.0 G8U200M	Gray, RAL 7001	200 m
34G1.0 G8U300M	Gray, RAL 7001	300 m

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