



**Product:** [HF4G1.0](#)

MachFlex™ High Flex 350YY, 3+1G C 1.0mm<sup>2</sup> Str BC, PVC Ins, PVC Jkt

## Product Description

MachFlex™ High Flex 350YY Control VDE Certified, 3 Conductor + 1 Ground 1.0mm<sup>2</sup> Stranded Bare Copper, PVC Insulation, PVC Jacket

## Technical Specifications

### Product Overview

Suitable Applications:	Applicable for high flexible (up to 5 million flex cycles) 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)	3	1 mm <sup>2</sup>	Stranded	Class 6	BC - Bare Copper
Ground	1	1 mm <sup>2</sup>	Stranded	Class 6	BC - Bare Copper

#### Insulation

Element	Material	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	Black #1, Black #2, Black #3
Ground	PVC - Polyvinyl Chloride	Yellow/Green

#### Outer Jacket

Material	
PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	7.2 mm (0.28 in)

### Electrical Characteristics

#### Voltage

Voltage Rating
300/500 V (Max. Operating Voltage)

### Mechanical Characteristics

#### Temperature

Installation	Continuous Flexing
-40°C to +80°C(Fixed installation)	0°C to +70°C

#### Bend Radius

Installation Min.	Flexing Min.
28.8 mm (1.13 in)	54 mm (2.1 in)

Table Notes:	Drag Chain Performance : 1m Travel Distance, Travel Speed 2m/s, Acceleration 4m/s <sup>2</sup> ≥ 5,000,000 Cycles; 3m Travel Distance, Travel Speed 3m/s, Acceleration 10m/s <sup>2</sup> ≥ 1,000,000 Cycles; 5m Travel Distance, Travel Speed 3m/s, Acceleration 10m/s <sup>2</sup> ≥ 200,000 Cycles
Bulk Cable Weight:	81 kg/km (54 lbs/1000ft)

### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance - EN 50290-2-22 (TM54), Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2
Third Party Performance Verification:	VDE Certification No. 40051701, VDE Registration No. F743
European Directive Compliance:	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 0285-525-2-11, VDE 0285-525-2-51

## History

Update and Revision:	Revision Number: 0.26 Revision Date: 07-15-2024
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## Part Numbers

### Variants

Item #	Color	Length
HF4G1.0 010100M	Black, RAL 9004	100 m
HF4G1.0 010200M	Black, RAL 9004	200 m
HF4G1.0 010300M	Black, RAL 9004	300 m
HF4G1.0 G8U100M	Gray, RAL 7001	100 m
HF4G1.0 G8U200M	Gray, RAL 7001	200 m
HF4G1.0 G8U300M	Gray, RAL 7001	300 m

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