



**Product:** [HF3G1.0EP](#)

MachFlex™ High Flex Super 350EP Control Cable 2 +1G C, 1 mm<sup>2</sup> Str BC, TPE Ins, PUR Jkt

## Product Description

MachFlex™ High Flex Super 350EP Control Cable 2 Conductor + 1 Ground, 1 mm<sup>2</sup>, Stranded Bare Copper, Thermoplastic Elastomer Insulation, Polyurethane Jacket

## Technical Specifications

### Product Overview

Suitable Applications:	Applicable for high flexible (5 millionflex cycles) installationconnecting precision control sensors, multi axis control machines, temperature controllers, control panels, machine cutting tools, auxiliary equipment, motor speed control, production machinery and many morein industrial environment.
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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	2	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)	TPE - Thermoplastic Elastomer	Black #1, Black #2
Ground	TPE - Thermoplastic Elastomer	Yellow/Green

#### Outer Jacket

Material	
PUR - Polyurethane	
Overall Cable Diameter (Nominal):	6.5 mm (0.26 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.
26 mm (1.0 in)	48.75 mm (1.919 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:	62 kg/km (42 lbs/1000ft)

### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Oil Resistance - 70°C x 4h
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 048233212
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
Other Standard Compliance(s):	VDE 0285-525-2-11, VDE 0285-525-2-51, VDE-PB-0022, EN 50525-2-11, EN 50525-2-51

## History

Update and Revision:	Revision Number: 0.33 Revision Date: 03-20-2024
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## Part Numbers

### Variants

Item #	Color	Length
HF3G1.0EP 010100M	Black, RAL 9004	100 m
HF3G1.0EP 010200M	Black, RAL 9004	200 m
HF3G1.0EP 010500M	Black, RAL 9004	500 m
HF3G1.0EP G8U100M	Gray, RAL 7001	100 m
HF3G1.0EP G8U200M	Gray, RAL 7001	200 m
HF3G1.0EP G8U500M	Gray, RAL 7001	500 m

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