



**Product:** [HF5G1.0P](#)

**MachFlex™ High Flex Super 350YP Control Cable 4C+1G 1mm<sup>2</sup> Str BC, PVC Ins, PUR Jkt**

## Product Description

MachFlex™ High Flex Super 350YP Control Cable 4 Conductor + 1 Ground 1mm<sup>2</sup> Stranded Bare Copper, PVC Insulation, PUR 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. PUR jacket ensure the cable with excellent abrasion resistance and flex cycles more than 5 million would be ideally applied to drag chain and the frequently moving fields.

### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	4	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, Black #4
Ground	PVC - Polyvinyl Chloride	Yellow/Green

#### Outer Jacket

Material	
PUR - Polyurethane	
Overall Cable Diameter (Nominal):	7.9 mm (0.31 in)

### Electrical Characteristics

#### Voltage

Voltage Rating
300/500 V (Max. Operating Voltage), 4000 V (Testing Voltage)

### Mechanical Characteristics

#### Temperature

Operating	Installation
-5°C to +70°C(Occasional movement)	-40°C to +80°C(Fixed installation)

**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"

#### Bend Radius

Installation Min.	Flexing Min.
31.6 mm (1.24 in)	59.25 mm (2.333 in)

**Bulk Cable Weight:** 96 kg/km (65 lbs/1000ft)

### Standards and Compliance

Environmental Suitability:	Sunlight Resistance, UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2
ISO/IEC Compliance:	IEC 60228
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2)
Other Standard Compliance(s):	VDE 0285, EN 50525-2-51, VDE 0285-525-2-51, VDE 0295, EN 50363-3, EN 50363-10-2, BS 6360

## Product Notes

Notes:	General Reference Standards : VDE 0207-363-3, VDE 0207-363-10-2
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## History

Update and Revision:	Revision Number: 0.27 Revision Date: 03-20-2024
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## Part Numbers

### Variants

Item #	Color	Length
HF5G1.0P 010100M	Black, RAL 9004	100 m
HF5G1.0P 010200M	Black, RAL 9004	200 m
HF5G1.0P 010300M	Black, RAL 9004	300 m
HF5G1.0P 006100M	Blue	100 m
HF5G1.0P 006200M	Blue	200 m
HF5G1.0P 006300M	Blue	300 m
HF5G1.0P G8U100M	Gray, RAL 7001	100 m
HF5G1.0P G8U200M	Gray, RAL 7001	200 m
HF5G1.0P G8U300M	Gray, RAL 7001	300 m

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