



Product: [HF12G1.0CP](#)

MachFlex™ High Flex 350CP, 11+1G C 1.0mm² Str BC, PVC Ins, PUR Inner Jkt, TCBS, PUR Outer Jkt

Product Description

MachFlex™ High Flex Control 350CP, 11 Conductor + 1 Ground 1.0mm² Stranded Bare Copper, PVC Insulation, PUR Inner Jacket, Tinned Copper Braid Shield, PUR Outer 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 ensures 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. Shielding would highly enable the cables be qualified with excellent immunity.
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	1 mm ²	Class 6	BC - Bare Copper	11
Ground	1 mm ²	Class 6	BC - Bare Copper	1

Conductor Count: 12

Insulation

Material
PVC - Polyvinyl Chloride

Color Chart

Color
Black #1
Black #2
Black #3
Black #4
Black #5
...
Black #11
Green/Yellow

Inner Jacket

Material
PUR - Polyurethane

Outer Shield

Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material	Nominal Diameter
PUR - Polyurethane	13.9 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
19.5 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:	-5°C to +70°C

Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	299 kg/km
Min. Bend Radius During Installation:	4 x OD
Min. Bend Radius During Operation:	7.5 x OD
Min No. of Drag Chain Cycles:	≥ 5,000,000 Cycles (1MT Traverse Distance, 20cycles/min, 1.5m/s) ≥ 200,000 Cycles (5MT Traverse Distance, 20cycles/min, 1.5m/s)

Standards

Other Specification:	VDE 0285, VDE 0285-525-2-51
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Applicable Environmental and Other Programs

EU Directive 2011/65/EU (RoHS 2):	Yes
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Suitability

Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
Other Flammability:	DIN VDE 0482-332-1-2, DIN EN 60332-1-2

History

Update and Revision:	Revision Number: 0.14 Revision Date: 12-15-2021
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