



Product: [HF12G0.5P](#)

MachFlex™ High Flex 350YP, 11+1G C 0.5mm² Str BC, PVC Ins, PUR Jkt

Product Description

MachFlex™ High Flex Control 350YP, 11 Conductor + 1 Ground 0.5mm² 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.
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Physical Characteristics (Overall)

Conductor				
Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	0.5 mm²	Class 6	BC - Bare Copper	11
Ground	0.5 mm²	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

Outer Jacket	
Material	Nominal Diameter
PUR - Polyurethane	9.7 mm

Electrical Characteristics

Voltage		
Dielectric Withstand Voltage	Non-UL Description	Non-UL Voltage Rating
4000 V	IEC:	300/500 V

Temperature Range

Installation Temperature Range:	-40°C to +80°C
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Operating Temperature Range:	-5°C to +70°C
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Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	130 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, LSOH, Toxicity Testing

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

Related Part Numbers

Variants

Item #	Color	Length
HF12G0.5P 010500M	Black, RAL 9005	500 m
HF12G0.5P 0101000M	Black, RAL 9005	1,000 m
HF12G0.5P G8U500M	Gray, RAL 7001	500 m
HF12G0.5P G8U1000M	Gray, RAL 7001	1,000 m

History

Update and Revision:	Revision Number: 0.18 Revision Date: 04-08-2022
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