



Product: <u>HF12G2.5ECP</u> ☑

MachFlex™ High Flex Super 350ECP Control Cable, 11C+1G 2.5mm² Str BC, TPE Ins, TPE Inner Jkt, TCBS, PU Outer Jkt

Product Description

MachFlex™ High Flex Super 350ECP Control Cable 11 Conductor + 1 Ground, 2.5mm², Stranded Bare Copper, TPE Insulation, TPE Inner Jacket, Tinned Copper Braid Shield, PU Outer Jacket

Technical Specifications

Product Overview

Suitable Applications:	Applicable for high flexible (5 million flex cycles) installation connecting precision control sensors, multi axis control machines, temperature controllers, control panels, machine cutting
Callable / (ppiloations:	tools, auxiliary equipment, motor speed control, production machinery and many more in noisy industrial environment

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	11	2.5 mm ²	Stranded	Class 6	BC - Bare Copper
Ground	1	2.5 mm ²	Stranded	Class 6	BC - Bare Copper

Insulation

Element	Material	Color Code
Conductor(s)	TPE - Thermoplastic Elastomer	Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, Black #7, Black #8, Black #9, Black #10, Black #11
Ground	TPE - Thermoplastic Elastomer	Yellow/Green

Outer Shield

Shield Type	Material	
Braid	Tinned Copper (TC)	

Inner Jacket



Outer Jacket



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

76.8 mm (3.02 in) 144 mm (5.67		
	Table Notes:	Drag Chain Performance : 1m Travel Distance, Travel Speed 2m/s, Acceleration $4m/s^2 \ge 5,000,000$ Cycles; 3m Travel Distance, Travel Speed 3m/s, Acceleration $10m/s^2 \ge 1,000,000$ Cycles; 5m Travel Distance, Travel Speed 3m/s, Acceleration $10m/s^2 \ge 200,000$ Cycles
	Bulk Cable Weight:	570 kg/km (380 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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
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: 0.27 Revision Date: 03-20-2024
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Part Numbers

Variants

Item #	Color	Length
HF12G2.5ECP 010100M	Black, RAL 9004	100 m
HF12G2.5ECP 010200M	Black, RAL 9004	200 m
HF12G2.5ECP 010500M	Black, RAL 9004	500 m
HF12G2.5ECP G8U100M	Gray, RAL 7001	100 m
HF12G2.5ECP G8U200M	Gray, RAL 7001	200 m
HF12G2.5ECP G8U500M	Gray, RAL 7001	500 m

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