



Product: <u>HF3G2.5CY</u> ☑

MachFlex[™] High Flex 350CY, 2 C + 1 G 2.5mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

Product Description

MachFlex™ High Flex Control 350CY VDE Certified, 2 Conductor + 1 Ground 2.5 mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Tinned Copper Braid Shield, PVC Outer Jacket

Technical Specifications

Product Overview

Suitable Applications:

Applicable for high flexible (up to 5 million flex cycles) installation connecting precision control sensors, multi axis control machines, temperature controllers, control panels, machine cutting 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)	2	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)	PVC - Polyvinyl Chloride	Black #1, Black #2
Ground	PVC - Polyvinyl Chloride	Yellow/Green

Outer Shield

Shield Type	Material	
Braid	Tinned Copper (TC)	

Inner Jacket



Outer Jacket

Material	
PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	11.0 mm (0.433 in)

Electrical Characteristics

Voltage



Mechanical Characteristics

Temperature

Installation	Continuous Flexing
-40°C to +80°C (Fixed Installation)	0°C to +70°C

Bend Radius

44 mm (1.7 in) 82.	(3.25 in)
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:	213 kg/km (143 lbs/1000ft)

Standards and Compliance

Installation Min. Flexing Min.

Environmental Suitability:	Indoor, Outdoor, Oil Resistance - EN 50290-2-22 (TM54), Oil Resistance	
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 048233212	
Third Party Performance Verification:	VDE Certification No. 40051701, VDE Registration No. F743	
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: 0.43 Revision Date: 03-20-2024
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Part Numbers

Variants

Item #	Color	Length
HF3G2.5CY 010100M	Black, RAL 9004	100 m
HF3G2.5CY 010200M	Black, RAL 9004	200 m
HF3G2.5CY 010300M	Black, RAL 9004	300 m
HF3G2.5CY G8U100M	Gray, RAL 7001	100 m
HF3G2.5CY G8U200M	Gray, RAL 7001	200 m
HF3G2.5CY G8U300M	Gray, RAL 7001	300 m
HF3G2.5CY 368100M	Transparent	100 m
HF3G2.5CY 368200M	Transparent	200 m
HF3G2.5CY 368300M	Transparent	300 m

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