



Product: <u>UHF5G1.0CY</u> ☑

MachFlex[™] High Flex 350CY UL Certified, 4 C + 1 G 1 mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

Product Description

MachFlex[™] High Flex Control 350CY UL Certified, 4 Conductors + Ground 1 mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Tinned Copper Braid Shield, PVC 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. This type of cables with flex cycles more than 5 millions would be ideally applied to drag chain and the frequently moving fields. Shielding would highly enable the cables be qualified with excellent immunity. This product group also meets UL standard requirements.
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	4	1 mm ²	Stranded	BC - Bare Copper
Ground	1	1 mm ²	Stranded	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 Shield

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	80%

Inner Jacket

Material PVC - Polyvinyl Chloride

Outer Jacket

Material PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal): 9.9 mm (0.39 in)	

Electrical Characteristics

Voltage

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

Mechanical Characteristics

Temperature

Operating	Installation
0°C to +70°C (UL: +80°C) (Continuous movement)	40°C to +80°C (UL: +80°C) (Fixed installation)

Table Notes: C	"Drag Chain Performance : 1m Travel Distance, Travel Speed 2m/s, Acceleration 4m/s ² ≥ 5,000,000 Cycles; 5m Travel Distance, Travel Speed 3m/s, Acceleration 10m/s ² ≥ 200,000 Cycles"		
Bend Radius			
Stationary Min. In	Installation Min.		
74.25 mm (2.923 in) 39	39.6 mm (1.56 in)		
Bulk Cable Weight: 15	154 kg/km (103 lbs/1000ft)		

Environmental UV Resistance, Oil Resistance - EN 50290-2-22 (TM54) Suitability: Flammability / FT 1, VW-1, IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2 Reaction to Fire: AWM Compliance: AWM 2464, AWM I/II A/B ISO/IEC IEC 60228 Compliance: CENELEC EN 50363-4-1 EN 50363-3 Compliance: European Directive EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2) Compliance: Other Standard Compliance(s): VDE 0285, UL 1581, VDE 0295, DIN VDE 0207-363-4-1, BS 6360

Product Notes

	Notes:	General Reference Standards : DIN VDE 0245, DIN VDE 0207-363-3, DIN VDE 0473-811-404, DIN EN 60811-404
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History

Update and Revision:

Part Numbers

Variants

ltem #	Color	Length
UHF5G1.0CY 010200M	Black	200 m
UHF5G1.0CY 010300M	Black	300 m
UHF5G1.0CY 010500M	Black	500 m
UHF5G1.0CY 006200M	Blue	200 m
UHF5G1.0CY 006300M	Blue	300 m
UHF5G1.0CY 006500M	Blue	500 m
UHF5G1.0CY G8U200M	Gray, RAL 7001	200 m
UHF5G1.0CY G8U300M	Gray, RAL 7001	300 m
UHF5G1.0CY G8U500M	Gray, RAL 7001	500 m

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