



# Product: <u>UHF4X1.0CY</u> ☑

MachFlex<sup>™</sup> High Flex 350CY UL Certified, 4 C 1 mm<sup>2</sup> Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

# **Product Description**

MachFlex™ High Flex Control 350CY UL Certified, 4 Conductors 1 mm<sup>2</sup> 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 <sup>2</sup>	Stranded	BC - Bare Copper
Ground	1	1 mm <sup>2</sup>	Stranded	BC - Bare Copper

### Insulation

Element	Material	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	Black #1, Black #2, Black #3, Black #4

### **Outer Shield**

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

### Inner Jacket

Material PVC - Polyvinyl Chloride

### Outer Jacket

Material	
PVC - Polyvinyl Chlo	ride
Overall Cable Diameter (Nominal):	9.1 mm (0.36 in)
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# **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:
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## Bend Radius

 Stationary Min.
 Installation Min.

 68.25 mm (2.687 in)
 36.4 mm (1.43 in)

 Bulk Cable Weight:
 129 kg/km (86.7 lbs/1000ft)

### **Standards and Compliance**

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

### **Product Notes**

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

Update and Revision:

n: Revision Number: 0.5 Revision Date: 10-22-2024

### **Part Numbers**

#### Variants

Item #	Color	Length
UHF4X1.0CY 010200M	Black	200 m
UHF4X1.0CY 010300M	Black	300 m
UHF4X1.0CY 010500M	Black	500 m
UHF4X1.0CY 006200M	Blue	200 m
UHF4X1.0CY 006300M	Blue	300 m
UHF4X1.0CY 006500M	Blue	500 m
UHF4X1.0CY G8U200M	Gray, RAL 7001	200 m
UHF4X1.0CY G8U300M	Gray, RAL 7001	300 m
UHF4X1.0CY G8U500M	Gray, RAL 7001	500 m

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