



Product: <u>UHF12X1.5</u> ☑

MachFlex™ High Flex 350YY UL Certified, 12 C 1.5 mm² Str BC, PVC Ins, PVC Outer Jkt

# **Product Description**

MachFlex™ High Flex Control 350YY UL Certified, 12 Conductors 1.5 mm² Stranded Bare Copper, PVC Insulation, PVC Jacket

# **Technical Specifications**

### **Product Overview**

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. This product group also meets UL standard requirements.

# **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	12	1.5 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, Black #5, Black #6, Black #7, Black #8, Black #9, Black #10, Black #11, Black #12		

#### **Outer Jacket**

Material

PVC - Polyvinyl Chloric	de
Overall Cable Diameter (Nominal):	13 mm (0.51 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:	Drag Chain Performance : 1r	m Travel Distance, Travel Speed 2m/s, Acceleration

### Bend Radius

Stationary Min. Installation	Min.
97.5 mm (3.84 in) 52 mm (2.0	in)
Bulk Cable Weight: 290 kg/kg	m (190 lbs/1000ft)

## **Standards and Compliance**

Environmental Suitability:	UV Resistance, Oil Resistance - EN 50290-2-22 (TM54)
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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**

Notes:	General Reference Standards : DIN VDE 0245, DIN VDE 0207-363-3, DIN VDE 0473-811-2-1, DIN EN 60811-2-1
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### **History**

	n Number: 0.5 Revision Date: 10-22-2024
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#### **Part Numbers**

#### Variants

Item #	Color	Length
UHF12X1.5 010200M	Black	200 m
UHF12X1.5 010300M	Black	300 m
UHF12X1.5 010500M	Black	500 m
UHF12X1.5 006200M	Blue	200 m
UHF12X1.5 006300M	Blue	300 m
UHF12X1.5 006500M	Blue	500 m
UHF12X1.5 G8U200M	Gray, RAL 7001	200 m
UHF12X1.5 G8U300M	Gray, RAL 7001	300 m
UHF12X1.5 G8U500M	Gray, RAL 7001	500 m

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