



# Product: UHF18G1.0

MachFlex<sup>™</sup> High Flex 350YY UL Certified, 17 C + 1 G 1 mm<sup>2</sup> Str BC, PVC Ins, PVC Outer Jkt

# **Product Description**

MachFlex™ High Flex Control 350YY UL Certified, 17 Conductors + Ground 1 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	1
Suitable Applicat	ons: 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	l
	would be ideally applied to drag chain and the frequently moving fields. This product group also meets UL standard requirements.	L

# **Construction Details**

### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	17	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, Black #5, Black #6, Black #7, Black #8, Black #9, Black #10, Black #11, Black #12, Black #13, Black #14, Black #15, Black #16, Black #17
Ground	PVC - Polyvinyl Chloride	Yellow/Green

#### Outer Jacket

Material PVC - Polyvinyl Chlori	de
Overall Cable Diameter (Nominal):	13.8 mm (0.543 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		
C	Operating	Installation
0°C to +70°C ( UL: +8	80°C ) (Continuous movement)	40°C to +80°C ( UL: +80°C ) (Fixed installation)
Table Notes: Drag Chain Performance : 1m Travel Distance, Travel Speed 2m/s, Acceleration 4m/s² ≥ 5,000,000 Cycles; 5m Travel Distance, Travel Speed 3m/s, Acceleration 10m/s² ≥ Cycles		
Bend Radius		
Stationary Min.	Installation Min.	
103.5 mm (4.075 in)	55.2 mm (2.17 in)	
Bulk Cable Weight:	323 kg/km (217 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**

Notes:

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

### History

Update and Revision: Revision Number: 0.5 Revision Date: 10-22-2024

### Part Numbers

#### Variants Colo Length UHF18G1.0 010200M Black 200 m UHF18G1.0 010300M 300 m Black UHF18G1.0 010500M Black 500 m UHF18G1.0 006200M Blue 200 m UHF18G1.0 006300M Blue 300 m UHF18G1.0 006500M Blue 500 m UHF18G1.0 G8U200M Gray, RAL 7001 200 m UHF18G1.0 G8U300M Gray, RAL 7001 300 m UHF18G1.0 G8U500M Gray, RAL 7001 500 m

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