



Product: <u>UHF36G1.0CY</u> ☑

MachFlex™ High Flex 350CY UL Certified, 36 C 1 mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

## **Product Description**

MachFlex™ High Flex Control 350CY UL Certified, 36 Conductors 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.

### **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	35	1 mm²	Stranded	BC - Bare Copper
Ground	1	1 mm²	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, Black #18, Black #19, Black #29, Black #20, Black #21, Black #22, Black #23, Black #24, Black #25, Black #26, Black #27, Black #28, Black #29, Black #30, Black #31, Black #32, Black #33, Black #34, Black #35
Ground	PVC - Polyvinyl Chloride	Yellow/Green

### **Outer Shield**

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

## Inner Jacket



#### **Outer Jacket**

Material	
PVC - Polyvinyl Chlor	ride
Overall Cable	21.6 mm (0.8

Overall Cable
Diameter (Nominal):

21.6 mm (0.850 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 : 1n Cycles"	n Travel Distance, Travel Speed 2m/s, Acceleratio

### Bend Radius

ationary Min. Installation Min.	
2 mm (6.38 in) 86.4 mm (3.40 in)	
k Cable Weight: 790 kg/km (530 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 0473-811-404, DIN EN 60811-404
NOICS.	General Reference Standards : DIN VDL 0243, DIN VDL 0207-303-3, DIN VDL 0473-011-404, DIN LIN 00011-404

### **History**

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Update and Revision:	Revision Number: 0.5 Revision Date: 10-22-2024
11011010111	

#### **Part Numbers**

#### Variants

Item #	Color	Length
UHF36G1.0CY 010200M	Black	200 m
UHF36G1.0CY 010300M	Black	300 m
UHF36G1.0CY 010500M	Black	500 m
UHF36G1.0CY 006200M	Blue	200 m
UHF36G1.0CY 006300M	Blue	300 m
UHF36G1.0CY 006500M	Blue	500 m
UHF36G1.0CY G8U200M	Gray, RAL 7001	200 m
UHF36G1.0CY G8U300M	Gray, RAL 7001	300 m
UHF36G1.0CY G8U500M	Gray, RAL 7001	500 m

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