



Product: [UHF25G0.5](#)

MachFlex™ High Flex 350YY UL Certified, 24 C + 1 G 0.5 mm² Str BC, PVC Ins, PVC Outer Jkt

Product Description

MachFlex™ High Flex Control 350YY UL Certified, 24 Conductors + Ground 0.5 mm² Stranded Bare Copper, PVC Insulation, PVC 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. This product group also meets UL standard requirements.

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	24	0.5 mm ²	Stranded	BC - Bare Copper
Ground	1	0.5 mm ²	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 #20, Black #21, Black #22, Black #23, Black #24
Ground	PVC - Polyvinyl Chloride	Yellow/Green

Outer Jacket

Material	
PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	13.9 mm (0.547 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 : 1m Travel Distance, Travel Speed 2m/s, Acceleration 4m/s² ≥ 5,000,000 Cycles; 5m Travel Distance, Travel Speed 3m/s, Acceleration 10m/s² ≥ 200,000 Cycles****

Bend Radius

Stationary Min.	Installation Min.
104.25 mm (4.1043 in)	55.6 mm (2.19 in)
Bulk Cable Weight:	271 kg/km (182 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
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History

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

Variants

Item #	Color	Length
UHF25G0.5 010200M	Black	200 m
UHF25G0.5 010300M	Black	300 m
UHF25G0.5 010500M	Black	500 m
UHF25G0.5 006200M	Blue	200 m
UHF25G0.5 006300M	Blue	300 m
UHF25G0.5 006500M	Blue	500 m
UHF25G0.5 G8U200M	Gray, RAL 7001	200 m
UHF25G0.5 G8U300M	Gray, RAL 7001	300 m
UHF25G0.5 G8U500M	Gray, RAL 7001	500 m

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