Product: H18G1.0

MachFlex™ 610YY Control & Power Cable, 17+1G C 1.0mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ 610YY Control & Power Cable, 17 Conductor + 1 Ground 1.0mm² 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.

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	17	1 mm²	Stranded	Class 5	BC - Bare Copper
Ground	1	1 mm²	Stranded	Class 5	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 Chloride

Overall Cable Diameter (Nominal):	16.1 mm (0.634 in)

Electrical Characteristics

Voltage

Voltage Rating
600/1000 V (Max. Operating Voltage), 4000 V (Testing Voltage)

Mechanical Characteristics

Temperature

Operating	Installation
-5°C to +70°C(Occasional movement)	-40°C to +80°C(Fixed installation)

Bend Radius

Installation Min.	Flexing Min.
64.4 mm (2.54 in)	241.5 mm (9.508 in)

Bulk Cable Weight:	385 kg/km (259 lbs/1000ft)

Standards and Compliance

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

Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 048233212, DIN EN 6033212
ISO/IEC Compliance:	IEC 60228
CENELEC Compliance:	EN 50290-2-22
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2)
Other Standard Compliance(s):	IEC 60227-5, EN 50525-2-51, DIN VDE 0207-363-4-1, VDE 0295, BS 6360

History

Update and Revision:	Revision Number: 0.66 Revision Date: 07-15-2024

Part Numbers

Variants

Item #	Color	Length
H18G1.0 010100M	Black	100 m
H18G1.0 010200M	Black	200 m
H18G1.0 010300M	Black	300 m
H18G1.0 006100M	Blue	100 m
H18G1.0 006200M	Blue	200 m
H18G1.0 006300M	Blue	300 m
H18G1.0 G8U100M	Gray, RAL 7001	100 m
H18G1.0 G8U200M	Gray, RAL 7001	200 m
H18G1.0 G8U300M	Gray, RAL 7001	300 m

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