



Product: [20G1.0L](#)

MachFlex™ 350HH, 19C+1G 1 mm² Str BC, PP Ins, LSZH Jkt

Product Description

MachFlex™ 350HH, 19 Conductor + 1 Ground 1 mm² Stranded Bare Copper, PP Insulation, LSZH 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 LSZH material emits limited smoke and no halogen when exposed to high sources of heat. It can considerably reduce the amount and density of the smoke, toxic and corrosive gas emitted during a fire, enable easier evacuation as well as safer firefighting operations.
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Construction Details

Conductor					
Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	19	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)	PP - Polypropylene	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
Ground	PP - Polypropylene	Yellow/Green

Outer Jacket	
Material	
LSZH - Low Smoke Zero Halogen (Flame Retardant)	
Overall Cable Diameter (Nominal):	13.7 mm (0.539 in)

Electrical Characteristics

Voltage
Voltage Rating
300/500 V (Max. Operating Voltage), 4000 V (Testing Voltage)

Mechanical Characteristics

Temperature	
Operating	Installation
-30°C to +70°C(Occasional movement)	-40°C to +80°C(Fixed installation)

Bend Radius	
Installation Min.	Flexing Min.
54.8 mm (2.16 in)	137 mm (5.39 in)

Bulk Cable Weight: 301 kg/km (202 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance, UV Resistance, Oil Resistance - 70°C x 4h
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2
ISO/IEC Compliance:	IEC 60228, IEC 60227-5
CENELEC Compliance:	EN 60228, EN 50290-2-25, EN 50290-2-27, EN 50525-3-11
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2)

Product Notes

Notes:	General Reference Standards : DIN VDE 0295, BS 6360 Smoke/Halogen Properties : IEC 61034-2, IEC 60754-1, IEC 60754-2, VDE 0482-754-1, VDE 0482-754-2
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History

Update and Revision:	Revision Number: 0.32 Revision Date: 07-04-2024
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Part Numbers

Variants

Item #	Color	Length
20G1.0L 010100M	Black	100 m
20G1.0L 010200M	Black	200 m
20G1.0L 010300M	Black	300 m
20G1.0L 006100M	Blue	100 m
20G1.0L 006200M	Blue	200 m
20G1.0L 006300M	Blue	300 m
20G1.0L G8U100M	Gray, RAL 7001	100 m
20G1.0L G8U200M	Gray, RAL 7001	200 m
20G1.0L G8U300M	Gray, RAL 7001	300 m

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