



Product: H12G10L ☑

MachFlex<sup>™</sup> 610HH, 11+1G C 1.0mm<sup>2</sup> Str BC, LSZH Ins, LSZH Jkt, UL AWM Style 21115

# **Product Description**

MachFlex™ 610HH, 11 Conductor + 1 Ground 1.0mm² Stranded Bare Copper, LSZH Insulation, LSZH Jacket , UL AWM Style 21115

# **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. Utilizing 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.

# **Physical Characteristics (Overall)**

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	1 mm²	Class 5	BC - Bare Copper	11
Ground	1 mm²	Class 5	BC - Bare Copper	1

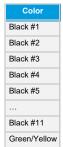
Conductor Count: 12

### Insulation

Material

LSZH - Low Smoke Zero Halogen (Flame Retardant)

#### Color Chart



#### **Outer Jacket**

Material	Nominal Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	12.38mm

# **Electrical Characteristics**

### **Conductor DCR**

Max. Conductor DCR 19.5 Ohm/km

# Voltage

Dielectric Withstand Voltage	Non-UL Description	Non-UL Voltage Rating
4000 V	IEC:	600/1000 V

# **Temperature Range**

Installation Temperature Range:	-40°C to +80°C
Operating Temperature Range:	-25°C to +70°C

# **Mechanical Characteristics**

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	242 kg/km
Min. Bend Radius During Installation:	4 x OD
Min. Bend Radius During Operation:	15 x OD

#### **Standards**

UL AWM Style Compliance: AWM 21115

# **Applicable Environmental and Other Programs**

EU Directive 2011/65/EU (RoHS 2):	Yes				
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# **Suitability**

Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

# Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2, IEC 60332-3-24, IEC 60332-3-25
Other Flammability:	DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-3-24, IEC 60332-3-25
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	10 μS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	60

# **History**

Update and Revision:	Revision Number: 0.11 Revision Date: 11-09-2022

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