



Product: [12C1.0HH](#)

MachFlex™ LiHH, 12 C 1 mm<sup>2</sup> Str BC, PE Ins, LSZH Jkt

### Product Description

MachFlex™ LiHH LSZH Control & Signal Cables, 12 Conductor 1 mm<sup>2</sup> Stranded Bare Copper, Polyethylene 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, pressure gauge, temperature controllers, control panels, vibration monitoring systems, intelligent security controllers, 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	Material
Conductor(s)	12	1 mm <sup>2</sup>	Stranded	BC - Bare Copper

##### Insulation

Material	Color Code
PE - Polyethylene	White, Brown, Green, Yellow, Gray, Pink, Blue, Red, Black, Violet, Gray/Pink, Red/Blue

##### Outer Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Overall Cable Diameter (Nominal): 9.6 mm (0.38 in)

#### Electrical Characteristics

##### Electricals

Nom. Capacitance Cond-to-Cond
80 pF/m (24 pF/ft)

##### Voltage

Voltage Rating
500 V (Max. Operating Voltage), 2500 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.
57.6 mm (2.27 in)	144 mm (5.67 in)

Bulk Cable Weight: 158 kg/km (106 lbs/1000ft)

## Standards and Compliance

Environmental Suitability:	Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2
ISO/IEC Compliance:	IEC 60228
CENELEC Compliance:	EN 50290-2-23, EN 50290-2-27
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):	EN 61034-2, VDE 0812, DIN 47100, BS 6360

## Product Notes

Notes:	Smoke/Halogen Properties : IEC 60754-1, IEC 60754-2, VDE 0482-754-1, VDE 0482-754-2
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## History

Update and Revision:	Revision Number: 0.30 Revision Date: 01-09-2024
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## Part Numbers

### Variants

Item #	Color	Length
12C1.0HH 010100M	Black	100 m
12C1.0HH 010200M	Black	200 m
12C1.0HH 010300M	Black	300 m
12C1.0HH 006100M	Blue	100 m
12C1.0HH 006200M	Blue	200 m
12C1.0HH 006300M	Blue	300 m
12C1.0HH F2V100M	Gray, RAL 7032	100 m
12C1.0HH F2V200M	Gray, RAL 7032	200 m
12C1.0HH F2V300M	Gray, RAL 7032	300 m

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