



Product: [10C0.5HH](#)

MachFlex™ LiHH, 10 C 0.5mm<sup>2</sup> Str BC, PE Ins, LSZH Jkt

### Product Description

MachFlex™ LiHH LSZH Control & Signal Cables, 10 Conductor 0.5mm<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. |
|------------------------|---|

#### Construction Details

##### Conductor

| Element      | No. of Elements | Size                | Stranding | Material         |
|--------------|-----------------|---------------------|-----------|------------------|
| Conductor(s) | 10              | 0.5 mm <sup>2</sup> | Stranded  | BC - Bare Copper |

##### Insulation

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

##### Outer Jacket

| Material  |
|---|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) |

Overall Cable Diameter (Nominal): 7.6 mm (0.30 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.     |
|-------------------|------------------|
| 45.6 mm (1.80 in) | 114 mm (4.49 in) |

Bulk Cable Weight: 80 kg/km (54 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 50290-2-23EN 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 |
|--------|---|

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.30 Revision Date: 01-09-2024 |
|----------------------|---|

## Part Numbers

### Variants

| Item #           | Color          | Length |
|------------------|----------------|--------|
| 10C0.5HH 010100M | Black          | 100 m  |
| 10C0.5HH 010200M | Black          | 200 m  |
| 10C0.5HH 010300M | Black          | 300 m  |
| 10C0.5HH 006100M | Blue           | 100 m  |
| 10C0.5HH 006200M | Blue           | 200 m  |
| 10C0.5HH 006300M | Blue           | 300 m  |
| 10C0.5HH F2V100M | Gray, RAL 7032 | 100 m  |
| 10C0.5HH F2V200M | Gray, RAL 7032 | 200 m  |
| 10C0.5HH F2V300M | Gray, RAL 7032 | 300 m  |

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