



Product: [H12X10L](#)



MachFlex™ 610HH, 12 C 1.0mm² Str BC, LSZH Ins, LSZH Jkt, UL AWM Style 21115

Product Description

MachFlex™ 610HH, 12 Conductor 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. |
|------------------------|--|

Construction Details

Conductor

| Element | Size | Stranding | Material |
|--------------|-------------------|-----------|------------------|
| Conductor(s) | 1 mm ² | Class 5 | BC - Bare Copper |

Insulation

| Material | Color Code |
|---|--|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, ..., Black #12 |

Outer Jacket

| Material | Nom. Diameter |
|---|---------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 12.38mm |

Electrical Characteristics

Electricals

| Max. Conductor DCR |
|-------------------------------|
| 19.5 Ohm/km (5.94 Ohm/1000ft) |

Voltage

| Voltage Rating |
|------------------|
| 600/1000 V (IEC) |

Mechanical Characteristics

Temperature

| Operating | Installation |
|----------------|----------------|
| -25°C to +70°C | -40°C to +80°C |

Bend Radius

| Installation Min. |
|-------------------|
| 4 x OD |

Bulk Cable Weight: 242 kg/km (163 lbs/1000ft)

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance, Oil Resistance |
| Flammability / Reaction to Fire: | IEC 60332-1-2, IEC 60332-3-24, IEC 60332-3-25, DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-3-24, IEC 60332-3-25 |
| AWM Compliance: | AWM 21115 |
| European Halogen Free Standards: | IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 μ S/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3 |
| European Directive Compliance: | EU Directive 2011/65/EU (RoHS 2) |
| Other Standard Compliance(s): | EN 50525-3-11 |

History

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|----------------------|---|
| Update and Revision: | Revision Number: 0.18 Revision Date: 07-15-2024 |
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