

Product: [H14X25L](#) 



MachFlex™ 610HH, 14 C 2.5mm² Str BC, LSZH Ins, LSZH Jkt, UL AWM Style 21115

Product Description

MachFlex™ 610HH, 14 Conductor 2.5mm² 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) | 2.5 mm ² | Class 5 | BC - Bare Copper | 14 |

Conductor Count: 14

Insulation

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

Color Chart

| Color |
|-----------|
| Black #1 |
| Black #2 |
| Black #3 |
| Black #4 |
| Black #5 |
| Black #6 |
| ... |
| Black #14 |

Outer Jacket

| Material | Nominal Diameter |
|---|------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 18.34mm |

Electrical Characteristics

Conductor DCR

| Max. Conductor DCR |
|--------------------|
| 7.98 Ohm/km |

Voltage

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

Temperature Range

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

Mechanical Characteristics

| | |
|---------------------------------------|-----------|
| Oil Resistance: | Yes |
| UV Resistance: | Yes |
| Bulk Cable Weight: | 593 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 |
| Other Specification: | EN 50525-3-11 |

Applicable Environmental and Other Programs

| | |
|-----------------------------------|-----|
| EU Directive 2011/65/EU (RoHS 2): | Yes |
|-----------------------------------|-----|

Suitability

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

Flammability, LSOH, Toxicity Testing

| | |
|--|--|
| IEC Flammability: | IEC 60332-1-2, IEC 60332-3-24 and 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

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| Update and Revision: | Revision Number: 0.7 Revision Date: 12-15-2021 |
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