



Product: [H3X4CH](#)

MachFlex™ 610CH, 3 C 4mm² Str BC, LSZH Ins, LSZH Inner Jkt, TCBS, LSZH Outer Jkt, UL AWM Style 21115

Product Description

MachFlex™ 610CH, 3 Conductor 4mm² Stranded Bare Copper, LSZH Insulation, LSZH Inner Jacket, Tinned Copper Braid Shield, LSZH Outer 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. Tinned copper braid shield ensures cables with excellent noise immunity. 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) | 4 mm ² | Class 5 | BC - Bare Copper |

Insulation

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

Outer Shield

| Shield Type | Material |
|-------------|--------------------|
| Braid | Tinned Copper (TC) |

Outer Jacket

| Material | Nom. Diameter |
|---|---------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 13.55 mm |

Electrical Characteristics

Electricals

| Max. Conductor DCR |
|-------------------------------|
| 4.95 Ohm/km (1.51 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. |
|-------------------|
|-------------------|

6 x OD

Bulk Cable Weight: 339 kg/km (228 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, 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) |

History

| | |
|----------------------|---|
| Update and Revision: | Revision Number: 0.18 Revision Date: 07-05-2024 |
|----------------------|---|

Part Numbers

Variants

| Item # | Color | Length |
|-----------------|------------------|---------|
| H3X4CH 010200M | Black, RAL 9005 | 200 m |
| H3X4CH 010305M | Black, RAL 9005 | 305 m |
| H3X4CH 010500M | Black, RAL 9005 | 500 m |
| H3X4CH 0101000M | Black, RAL 9005 | 1,000 m |
| H3X4CH G8U200M | Gray, RAL 7001 | 200 m |
| H3X4CH G8U305M | Gray, RAL 7001 | 305 m |
| H3X4CH G8U500M | Gray, RAL 7001 | 500 m |
| H3X4CH G8U1000M | Gray, RAL 7001 | 1,000 m |
| H3X4CH 003200M | Orange, RAL 2003 | 200 m |
| H3X4CH 003305M | Orange, RAL 2003 | 305 m |
| H3X4CH 003500M | Orange, RAL 2003 | 500 m |
| H3X4CH 0031000M | Orange, RAL 2003 | 1,000 m |

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