



Product: [H2X1.5CH](#)

MachFlex™ 610CH, 2 C 1.5mm<sup>2</sup> Str BC, LSZH Ins, LSZH Inner Jkt, TCBS, LSZH Outer Jkt, UL AWM Style 21115

### Product Description

MachFlex™ 610CH, 2 Conductor 1.5mm<sup>2</sup> 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.
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#### Construction Details

##### Conductor

Element	Size	Stranding	Material
Conductor(s)	1.5 mm <sup>2</sup>	Class 5	BC - Bare Copper

##### Insulation

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

##### Outer Shield

Shield Type	Material
Braid	Tinned Copper (TC)

##### Inner Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

##### Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	10.12 mm

#### Electrical Characteristics

##### Electricals

Max. Conductor DCR
13.3 Ohm/km (4.05 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: 162 kg/km (109 lbs/1000ft)

#### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance, Oil Resistance
Flammability / Reaction to Fire:	FT2, 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 µS/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

Update and Revision:	Revision Number: 0.39 Revision Date: 02-15-2024
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