



**Product:** [H7X6L](#)



MachFlex™ 610HH, 7 C 6.0mm<sup>2</sup> Str BC, LSZH Ins, LSZH Jkt, UL AWM Style 21115

## Product Description

MachFlex™ 610HH, 7 Conductor 6mm<sup>2</sup> 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.
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### Construction Details

#### Conductor

Element	Size	Stranding	Material
Conductor(s)	6 mm <sup>2</sup>	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 #7

#### Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	20.71mm

### Electrical Characteristics

#### Electricals

Max. Conductor DCR
3.3 Ohm/km (1.0 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: 814 kg/km (547 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 $\mu$ 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: 0.17 Revision Date: 07-05-2024
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## Part Numbers

### Variants

Item #	Color	Length
H7X6L 010100M	Black, RAL 9005	100 m
H7X6L 010200M	Black, RAL 9005	200 m
H7X6L 010305M	Black, RAL 9005	305 m
H7X6L G8U100M	Gray, RAL 7001	100 m
H7X6L G8U200M	Gray, RAL 7001	200 m
H7X6L G8U305M	Gray, RAL 7001	305 m

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