



Product: [H9X6CH](#) 

MachFlex™ 610CH, 9 C 6mm² Str BC, LSZH Ins, LSZH Inner Jkt, TCBS, LSZH Outer Jkt, UL AWM Style 21115

Product Description

MachFlex™ 610CH, 9 Conductor 6mm² 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.

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	6 mm ²	Class 5	BC - Bare Copper	9

Conductor Count: 9

Insulation

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Color Chart

Color
Black #1
Black #2
Black #3
Black #4
Black #5
...
Black #9

Outer Shield

Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material	Nominal Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	23.84 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
3.3 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:	1062 kg/km
Min. Bend Radius During Installation:	6 x OD
Min. Bend Radius During Operation:	20 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
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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
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%
UL voltage rating:	1000 V RMS

Part Number

Variants

Item #	Color	Length
H9X6CH 010100M	Black, RAL 9005	100 m
H9X6CH 010200M	Black, RAL 9005	200 m
H9X6CH G8U100M	Gray, RAL 7001	100 m
H9X6CH G8U200M	Gray, RAL 7001	200 m
H9X6CH 003100M	Orange, RAL 2003	100 m
H9X6CH 003200M	Orange, RAL 2003	200 m

History

Update and Revision:	Revision Number: 0.10 Revision Date: 12-15-2021
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