Product: H5X2.5CH

MachFlex™ 610CH, 5 C 2.5mm² Str BC, LSZH Ins, LSZH Inner Jkt, TCBS, LSZH Outer Jkt, UL AWM Style 21115

Product Description

MachFlex™ 610CH, 5 Conductor 2.5mm² 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)	2.5 mm²	Class 5	BC - Bare Copper	5

Conductor Count:	5

Insulation

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Color Chart

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

Outer Shield

Type	Material
Braid	Tinned Copper (TC)

Outer Jacket

Material	Nominal Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	14.17 mm

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 Temperature Range:	-40°C to +80°C
Operating Temperature Range:	25°C to +70°C

Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	359 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

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, LS0H, 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

Related Part Numbers

Variants

Item #	Color	Length
H5X2.5CH 010200M	Black, RAL 9005	200 m
H5X2.5CH 010305M	Black, RAL 9005	305 m
H5X2.5CH 010500M	Black, RAL 9005	500 m
H5X2.5CH 0101000M	Black, RAL 9005	1,000 m
H5X2.5CH G8U200M	Gray, RAL 7001	200 m
H5X2.5CH G8U305M	Gray, RAL 7001	305 m
H5X2.5CH G8U500M	Gray, RAL 7001	500 m
H5X2.5CH G8U1000M	Gray, RAL 7001	1,000 m
H5X2.5CH 003200M	Orange, RAL 2003	200 m
H5X2.5CH 003305M	Orange, RAL 2003	305 m
H5X2.5CH 003500M	Orange, RAL 2003	500 m
H5X2.5CH 0031000M	Orange, RAL 2003	1,000 m

History

Update and Revision:	Revision Number: 0.12 Revision Date: 04-08-2022

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