



Product: [H7G6CH](#)

MachFlex™ 610CH, 6+1G C 6mm² Str BC, LSZH Ins, LSZH Inner Jkt, TCBS, LSZH Outer Jkt, UL AWM Style 21115

Product Description

MachFlex™ 610CH, 6 Conductor + 1 Ground 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.
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Construction Details

Conductor

Element	Size	Stranding	Material
Conductor(s)	6 mm ²	Class 5	BC - Bare Copper
Ground	6 mm ²	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, Green/Yellow

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)	19.24 mm

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.
6 x OD

Bulk Cable Weight: 789 kg/km (530 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)

History

Update and Revision:	Revision Number: 0.46 Revision Date: 07-05-2024
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Part Numbers

Variants

Item #	Color	Length
H7G6CH 010100M	Black, RAL 9005	100 m
H7G6CH 010200M	Black, RAL 9005	200 m
H7G6CH 010305M	Black, RAL 9005	305 m
H7G6CH G8U100M	Gray, RAL 7001	100 m
H7G6CH G8U200M	Gray, RAL 7001	200 m
H7G6CH G8U305M	Gray, RAL 7001	305 m
H7G6CH 003100M	Orange, RAL 2003	100 m
H7G6CH 003200M	Orange, RAL 2003	200 m
H7G6CH 003305M	Orange, RAL 2003	305 m

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