Product: H18G1.0CH

MachFlex™ 610CH, 17+1G C 1.0mm² Str BC, LSZH Ins, LSZH Inner Jkt, TCBS, LSZH Outer Jkt, UL AWM Style 21115

Product Description

MachFlex™ 610CH, 17 Conductor + 1 Ground 1.0mm² 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.

Construction Details

Conductor

Element	Size	Stranding	Material
Conductor(s)	1 mm²	Class 5	BC - Bare Copper
Ground	1 mm²	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 #17, 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)	16.95 mm

Electrical Characteristics

Electricals

Max. Conductor DCR
19.5 Ohm/km (5.94 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:	485 kg/km (326 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: 07-15-2024

Part Numbers

Variants

Item #	Color	Length
H18G1.0CH 010500M	Black, RAL 9005	500 m
H18G1.0CH 0101000M	Black, RAL 9005	1,000 m
H18G1.0CH G8U500M	Gray, RAL 7001	500 m
H18G1.0CH G8U1000M	Gray, RAL 7001	1,000 m
H18G1.0CH 003500M	Orange, RAL 2003	500 m
H18G1.0CH 0031000M	Orange, RAL 2003	1,000 m

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