



Product: [H16G1.5L](#)

MachFlex™ 610HH, 15+1G C 1.5mm² Str BC, LSZH Ins, LSZH Jkt, UL AWM Style 21115

Product Description

MachFlex™ 610HH, 15 Conductor + 1 Ground 1.5mm² 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.
------------------------	--

Physical Characteristics (Overall)

Conductor				
Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	1.5 mm²	Class 5	BC - Bare Copper	15
Ground	1.5 mm²	Class 5	BC - Bare Copper	1
Conductor Count:		16		

Insulation
Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Color Chart

Color
Black #1
Black #2
Black #3
Black #4
Black #5
...
Black #15
Green/Yellow

Outer Jacket	
Material	Nominal Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	15.87mm

Electrical Characteristics

Conductor DCR
Max. Conductor DCR
13.3 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:	431 kg/km
Min. Bend Radius During Installation:	4 x OD
Min. Bend Radius During Operation:	15 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
-----------------------------------	-----

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, IEC 60332-3-24, IEC 60332-3-25
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

Related Part Numbers

Variants

Item #	Color	Length
H16G1.5L 010200M	Black, RAL 9005	200 m
H16G1.5L 010305M	Black, RAL 9005	305 m
H16G1.5L 010500M	Black, RAL 9005	500 m
H16G1.5L 0101000M	Black, RAL 9005	1,000 m
H16G1.5L G8U200M	Gray, RAL 7001	200 m
H16G1.5L G8U305M	Gray, RAL 7001	305 m
H16G1.5L G8U500M	Gray, RAL 7001	500 m
H16G1.5L G8U1000M	Gray, RAL 7001	1,000 m

History

Update and Revision:	Revision Number: 0.11 Revision Date: 11-09-2022
----------------------	---

© 2022 Belden, Inc
All Rights Reserved.
Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.
Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.
All sales of Belden products are subject to Belden's standard terms and conditions of sale.
Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief

at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.