



Product: [H20G10L](#)

MachFlex™ 610HH, 19+1G C 1.0mm² Str BC, LSZH Ins, LSZH Jkt, UL AWM Style 21115

Product Description

MachFlex™ 610HH, 19 Conductor + 1 Ground 1.0mm² 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.
------------------------	--

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 #19, Green/Yellow

Outer Jacket	
Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	15.26mm

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.	
4 x OD	
Bulk Cable Weight:	368 kg/km (247 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-24, IEC 60332-3-25, 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: 0.12 Revision Date: 11-27-2023
----------------------	---

© 2024 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.