



Product: [H9X4L](#)



MachFlex™ 610HH, 9 C 4.0mm² Str BC, LSZH Ins, LSZH Jkt, UL AWM Style 21115

Product Description

MachFlex™ 610HH, 9 Conductor 4mm² 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)	4 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, ... , Black #9

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	19.31mm

Electrical Characteristics

Electricals

Max. Conductor DCR
4.95 Ohm/km (1.51 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: 680 kg/km (460 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: 0.20 Revision Date: 07-05-2024
----------------------	---

Part Numbers

Variants

Item #	Color	Length
H9X4L 010200M	Black, RAL 9005	200 m
H9X4L 010305M	Black, RAL 9005	305 m
H9X4L 010500M	Black, RAL 9005	500 m
H9X4L G8U200M	Gray, RAL 7001	200 m
H9X4L G8U305M	Gray, RAL 7001	305 m
H9X4L G8U500M	Gray, RAL 7001	500 m

© 2025 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.