



**Product:** [C5X1.0CH](#)

MachFlex™ 375 CH, 5 C 1 mm<sup>2</sup> Str BC, LSZH Ins, LSZH Inner Jkt, TCBS, LSZH Outer Jkt

## Product Description

MachFlex™ 375CH LSZH Power and Control Cables, 5 Conductors 1 mm<sup>2</sup> Stranded Bare Copper, LSZH Insulation, LSZH Inner Jacket, Tinned Copper Braid Shield, LSZH Outer Jacket, UL AWM 21310

## Technical Specifications

### Product Overview

Suitable Applications:	Applicable for occasional flexing or fixed installation connecting precision control sensors, multi axis control machines, temperature controllers, control panels, machine cutting tools, auxiliary equipment, motor speed control, production machinery and many more in limited smoke and no halogen required noisy environment.
------------------------	---

### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	5	1 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper

#### Insulation

Element	Material	Color Code
Conductor(s)	LSZH - Low Smoke Zero Halogen (Flame Retardant)	White, Black, Blue, Brown, Grey

#### Outer Shield

Shield Type	Material
Braid	Tinned Copper (TC)

#### Inner Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

#### Outer Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Overall Cable Diameter (Nominal):	9.8 mm (0.39 in)
-----------------------------------	------------------

### Electrical Characteristics

#### Voltage

UL Voltage Rating	Voltage Rating
600 V (Max. Operating Voltage)	300 / 500 V (EN Voltage Rating)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating	Installation
80°C	-25°C to +70°C	-40°C to +80°C

#### Bend Radius

Installation Min.	Flexing Min.

58.8 mm (2.31 in) 196 mm (7.72 in)

Bulk Cable Weight: 168 kg/km (113 lbs/1000ft)

## Standards and Compliance

Environmental Suitability: Indoor/Outdoor, UV Resistance, Oil Resistance

Flammability / Reaction to Fire: FT2, IEC 60332-1-2, IEC 60332-3-24, IEC 60332-3-25, DIN VDE 048233212, DIN EN 6033212

AWM Compliance: AWM 21310

GENELEC Compliance: EN 50525-3-11

European Directive Compliance: EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

APAC Compliance: China RoHS II (GB/T 26572-2011)

## Product Notes

Notes: Smoke/Halogen Properties : IEC 61034-2, IEC 60754-1, IEC 60754-2

## History

Update and Revision: Revision Number: 0.7 Revision Date: 12-20-2024

## Part Numbers

### Variants

Item #	Color	Length
C5X1.0CH 010100M	Black	100 m
C5X1.0CH 010200M	Black	200 m
C5X1.0CH 010300M	Black	300 m
C5X1.0CH G8U100M	Gray, RAL 7001	100 m
C5X1.0CH G8U200M	Gray, RAL 7001	200 m
C5X1.0CH G8U300M	Gray, RAL 7001	300 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.