



**Product:** [C18X1.0CH](#)

MachFlex™ 375 CH, 18 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, 18 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.
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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	18	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, Red, Violet, Pink, Orange, Green, Beige, Black/White, Blue/White, Brown/White, Grey/White, Red/White, Violet/White, Pink/White

#### 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):	15 mm (0.59 in)
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### 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.
90 mm (3.5 in)	300 mm (12 in)

Bulk Cable Weight: 408 kg/km (274 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
CENELEC 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
C18X1.0CH 010100M	Black	100 m
C18X1.0CH 010200M	Black	200 m
C18X1.0CH 010300M	Black	300 m
C18X1.0CH G8U100M	Gray, RAL 7001	100 m
C18X1.0CH G8U200M	Gray, RAL 7001	200 m
C18X1.0CH G8U300M	Gray, RAL 7001	300 m

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