



**Product:** [C12X2.5CH](#)

MachFlex™ 375 CH, 12 C 2.5 mm<sup>2</sup> Str BC, LSZH Ins, LSZH Inner Jkt, TCBS, LSZH Outer Jkt

### Product Description

MachFlex™ 375CH LSZH Power and Control Cables, 12 Conductors 2.5 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) | 12              | 2.5 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 |

##### 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): | 17.5 mm (0.689 in) |
|-----------------------------------|--------------------|

#### Electrical Characteristics

##### Voltage

| UL Voltage Rating              | Voltage Rating                  |
|--------------------------------|---------------------------------|
| 600 V (Max. Operating Voltage) | 450 / 750 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. |
|-------------------|--------------|
|                   |              |

105 mm (4.13 in) 350 mm (14 in)

Bulk Cable Weight: 580 kg/km (390 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: 0.38 Revision Date: 12-20-2024

## Part Numbers

### Variants

| Item #            | Color           | Length |
|-------------------|-----------------|--------|
| C12X2.5CH 010100M | Black           | 100 m  |
| C12X2.5CH 010200M | Black           | 200 m  |
| C12X2.5CH 010300M | Black           | 300 m  |
| C12X2.5CH 010200M | Black, RAL 9005 | 200 m  |
| C12X2.5CH G8U100M | Gray, RAL 7001  | 100 m  |
| C12X2.5CH G8U200M | Gray, RAL 7001  | 200 m  |
| C12X2.5CH G8U200M | Gray, RAL 7001  | 200 m  |
| C12X2.5CH G8U300M | Gray, RAL 7001  | 300 m  |

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