



Product: [C20G1.0CH](#) 

MachFlex™ 375 CH, 19 C + 1 G 1 mm² Str BC, LSZH Ins, LSZH Inner Jkt, TCBS, LSZH Outer Jkt

Product Description

MachFlex™ 375CH LSZH Power and Control Cables, 19 Conductors + 1 Ground 1 mm² 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) | 19 | 1 mm ² | Stranded | Class 5 | BC - Bare Copper |
| Ground | 1 | 1 mm ² | 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, Orange/White |
| Ground | LSZH - Low Smoke Zero Halogen (Flame Retardant) | Yellow/Green |

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): | 15.6 mm (0.614 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. |
|-------------------|------------------|
| 93.6 mm (3.69 in) | 312 mm (12.3 in) |

Bulk Cable Weight: 437 kg/km (294 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 |
|-------------------|----------------|--------|
| C20G1.0CH 010100M | Black | 100 m |
| C20G1.0CH 010200M | Black | 200 m |
| C20G1.0CH 010300M | Black | 300 m |
| C20G1.0CH G8U100M | Gray, RAL 7001 | 100 m |
| C20G1.0CH G8U200M | Gray, RAL 7001 | 200 m |
| C20G1.0CH G8U300M | Gray, RAL 7001 | 300 m |

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