



Product: [3G16L](#)

MachFlex™ 350HH, 2C+1G 16 mm² Str BC, PP Ins, LSZH Jkt

### Product Description

MachFlex™ 350HH, 2 Conductor + 1 Ground 16 mm² Stranded Bare Copper, PP Insulation, LSZH Jacket

### 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. This 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      | No. of Elements | Size   | Stranding | Stranding Class | Material         |
|--------------|-----------------|--------|-----------|-----------------|------------------|
| Conductor(s) | 2               | 16 mm² | Stranded  | Class 5         | BC - Bare Copper |
| Ground       | 1               | 16 mm² | Stranded  | Class 5         | BC - Bare Copper |

##### Insulation

| Element      | Material           | Color Code         |
|--------------|--------------------|--------------------|
| Conductor(s) | PP - Polypropylene | Black #1, Black #2 |
| Ground       | PP - Polypropylene | Yellow/Green       |

##### Outer Jacket

| Material  |
|---|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) |

Overall Cable Diameter (Nominal): 18.1 mm (0.713 in)

#### Electrical Characteristics

##### Voltage

| Voltage Rating   |
|--|
| 300/500 V (Max. Operating Voltage), 4000 V (Testing Voltage) |

#### Mechanical Characteristics

##### Temperature

| Operating                           | Installation                       |
|-------------------------------------|------------------------------------|
| -30°C to +70°C(Occasional movement) | -40°C to +80°C(Fixed installation) |

##### Bend Radius

| Installation Min. | Flexing Min.     |
|-------------------|------------------|
| 72.4 mm (2.85 in) | 181 mm (7.13 in) |

Bulk Cable Weight: 701 kg/km (471 lbs/1000ft)

#### Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Sunlight Resistance, UV Resistance, Oil Resistance - 70°C x 4h                                   |
| Flammability / Reaction to Fire: | IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2  |
| ISO/IEC Compliance:              | IEC 60228, IEC 60227-5   |
| GENELEC Compliance:              | EN 60228, EN 50290-2-25, EN 50290-2-27, EN 50525-3-11  |
| European Directive Compliance:   | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2) |

## Product Notes

|        |  |
|--------|--|
| Notes: | General Reference Standards : DIN VDE 0295, BS 6360 Smoke/Halogen Properties : IEC 61034-2, IEC 60754-1, IEC 60754-2, VDE 0482-754-1, VDE 0482-754-2 |
|--------|--|

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.26 Revision Date: 07-05-2024 |
|----------------------|---|

## Part Numbers

### Variants

| Item #        | Color          | Length |
|---------------|----------------|--------|
| 3G16L 010100M | Black          | 100 m  |
| 3G16L 010200M | Black          | 200 m  |
| 3G16L 010300M | Black          | 300 m  |
| 3G16L 006100M | Blue           | 100 m  |
| 3G16L 006200M | Blue           | 200 m  |
| 3G16L 006300M | Blue           | 300 m  |
| 3G16L G8U100M | Gray, RAL 7001 | 100 m  |
| 3G16L G8U200M | Gray, RAL 7001 | 200 m  |
| 3G16L G8U300M | Gray, RAL 7001 | 300 m  |

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