



Product: [12G1.5L](#)

MachFlex™ 350HH, 11C+1G 1.5 mm² Str BC, PP Ins, LSZH Jkt

Product Description

MachFlex™ 350HH, 11 Conductor + 1 Ground 1.5 mm² Stranded Bare Copper, PP Insulation, LSZH Jacket

Technical Specifications

Product Overview

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|------------------------|---|
| 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) | 11 | 1.5 mm ² | Stranded | Class 5 | BC - Bare Copper |
| Ground | 1 | 1.5 mm ² | Stranded | Class 5 | BC - Bare Copper |

Insulation

| Element | Material | Color Code |
|--------------|--------------------|--|
| Conductor(s) | PP - Polypropylene | Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, Black #7, Black #8, Black #9, Black #10, Black #11 |
| Ground | PP - Polypropylene | Yellow/Green |

Outer Jacket

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

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|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 12.2 mm (0.480 in) |
|-----------------------------------|--------------------|

Electrical Characteristics

Voltage

| Voltage Rating |
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| 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. |
|-------------------|------------------|
| 48.8 mm (1.92 in) | 122 mm (4.80 in) |

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|--------------------|----------------------------|
| Bulk Cable Weight: | 260 kg/km (170 lbs/1000ft) |
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Standards and Compliance

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|----------------------------------|--|
| 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 |
| CENELEC 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

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| 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 |
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History

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| Update and Revision: | Revision Number: 0.63 Revision Date: 07-04-2024 |
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Part Numbers

Variants

| Item # | Color | Length |
|-----------------|----------------|--------|
| 12G1.5L 010100M | Black | 100 m |
| 12G1.5L 010200M | Black | 200 m |
| 12G1.5L 010300M | Black | 300 m |
| 12G1.5L 006100M | Blue | 100 m |
| 12G1.5L 006200M | Blue | 200 m |
| 12G1.5L 006300M | Blue | 300 m |
| 12G1.5L G8U100M | Gray, RAL 7001 | 100 m |
| 12G1.5L G8U200M | Gray, RAL 7001 | 200 m |
| 12G1.5L G8U300M | Gray, RAL 7001 | 300 m |

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