



Product: [HF3G1.0](#)

MachFlex™ High Flex 350YY, 2+1G C 1.0mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ High Flex 350YY Control VDE Certified, 2 Conductor + 1 Ground 1.0mm² Stranded Bare Copper, PVC Insulation, PVC Jacket

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Applicable for high flexible (up to 5 million flex cycles) 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. |
|------------------------|--|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Stranding Class | Material |
|--------------|-----------------|-------------------|-----------|-----------------|------------------|
| Conductor(s) | 2 | 1 mm ² | Stranded | Class 6 | BC - Bare Copper |
| Ground | 1 | 1 mm ² | Stranded | Class 6 | BC - Bare Copper |

Insulation

| Element | Material | Color Code |
|--------------|--------------------------|--------------------|
| Conductor(s) | PVC - Polyvinyl Chloride | Black #1, Black #2 |
| Ground | PVC - Polyvinyl Chloride | Yellow/Green |

Outer Jacket

| Material | |
|-----------------------------------|------------------|
| PVC - Polyvinyl Chloride | |
| Overall Cable Diameter (Nominal): | 6.4 mm (0.25 in) |

Electrical Characteristics

Voltage

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

Mechanical Characteristics

Temperature

| Installation | Continuous Flexing |
|------------------------------------|--------------------|
| -40°C to +80°C(Fixed installation) | 0°C to +70°C |

Bend Radius

| Installation Min. | Flexing Min. |
|-------------------|----------------|
| 25.6 mm (1.01 in) | 48 mm (1.9 in) |

| | |
|--------------------|---|
| Table Notes: | Drag Chain Performance : 1m Travel Distance, Travel Speed 2m/s, Acceleration 4m/s ² ≥ 5,000,000 Cycles; 3m Travel Distance, Travel Speed 3m/s, Acceleration 10m/s ² ≥ 1,000,000 Cycles; 5m Travel Distance, Travel Speed 3m/s, Acceleration 10m/s ² ≥ 200,000 Cycles |
| Bulk Cable Weight: | 63 kg/km (42 lbs/1000ft) |

Standards and Compliance

| | |
|---------------------------------------|--|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance - EN 50290-2-22 (TM54), Oil Resistance |
| Flammability / Reaction to Fire: | IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2 |
| Third Party Performance Verification: | VDE Certification No. 40051701, VDE Registration No. F743 |
| European Directive Compliance: | EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Other Standard Compliance(s): | VDE 0285-525-2-11, VDE 0285-525-2-51 |

History

| | |
|----------------------|---|
| Update and Revision: | Revision Number: 0.58 Revision Date: 11-28-2023 |
|----------------------|---|

Part Numbers

Variants

| Item # | Color | Length |
|-----------------|-----------------|--------|
| HF3G1.0 010100M | Black, RAL 9004 | 100 m |
| HF3G1.0 010200M | Black, RAL 9004 | 200 m |
| HF3G1.0 010300M | Black, RAL 9004 | 300 m |
| HF3G1.0 G8U100M | Gray, RAL 7001 | 100 m |
| HF3G1.0 G8U200M | Gray, RAL 7001 | 200 m |
| HF3G1.0 G8U300M | Gray, RAL 7001 | 300 m |

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