



Product: [32G1.0](#)

MachFlex™ 350YY, 31C+1G 1 mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ 350YY Control VDE Certified, 31 Conductor + 1 Ground 1 mm² Stranded Bare Copper, PVC Insulation, PVC Jacket

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. |
|------------------------|--|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Stranding Class | Material |
|--------------|-----------------|-------------------|-----------|-----------------|------------------|
| Conductor(s) | 31 | 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) | PVC - Polyvinyl Chloride | Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, Black #7, Black #8, Black #9, Black #10, Black #11, Black #12, Black #13, Black #14, Black #15, Black #16, Black #17, Black #18, Black #19, Black #20, Black #21, Black #22, Black #23, Black #24, Black #25, Black #26, Black #27, Black #28, Black #29, Black #30, Black #31 |
| Ground | PVC - Polyvinyl Chloride | Yellow/Green |

Outer Jacket

| Material | |
|-----------------------------------|-----------------|
| PVC - Polyvinyl Chloride | |
| Overall Cable Diameter (Nominal): | 17 mm (0.67 in) |

Electrical Characteristics

Voltage

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

Mechanical Characteristics

Temperature

| Operating | Installation |
|-------------------------------------|------------------------------------|
| -15°C to +70°C(Occasional movement) | -40°C to +80°C(Fixed installation) |

Bend Radius

| Installation Min. | Flexing Min. |
|-------------------|-----------------|
| 68 mm (2.7 in) | 170 mm (6.7 in) |

| | |
|--------------------|----------------------------|
| Bulk Cable Weight: | 500 kg/km (340 lbs/1000ft) |
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Standards and Compliance

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|----------------------------|--|
| Environmental Suitability: | Indoor, Outdoor, Oil Resistance - EN 50290-2-22 (TM54) |
|----------------------------|--|

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|---------------------------------------|---|
| Flammability / Reaction to Fire: | IEC 60332-1-2, DIN VDE 048233212, DIN EN 6033212 |
| Third Party Performance Verification: | VDE Certification No. 40041970, VDE Registration No. 8770 |
| European Directive Compliance: | EU CE Mark, 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 0285-525-2-51, IEC 60227-5, EN 50525-2-51 |

History

| | |
|----------------------|---|
| Update and Revision: | Revision Number: 0.50 Revision Date: 03-19-2024 |
|----------------------|---|

Part Numbers

Variants

| Item # | Color | Length |
|----------------|-----------------|--------|
| 32G1.0 010100M | Black, RAL 9004 | 100 m |
| 32G1.0 010200M | Black, RAL 9004 | 200 m |
| 32G1.0 010300M | Black, RAL 9004 | 300 m |
| 32G1.0 G8U100M | Gray, RAL 7001 | 100 m |
| 32G1.0 F2V200M | Gray, RAL 7001 | 200 m |
| 32G1.0 G8U200M | Gray, RAL 7001 | 200 m |
| 32G1.0 F2V300M | Gray, RAL 7001 | 300 m |
| 32G1.0 G8U300M | Gray, RAL 7001 | 300 m |

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