



Product: [3G0.5CY](#)

MachFlex™ 350CY, 2+1G C 0.5mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

Product Description

MachFlex™ 350CY Control VDE Certified, 2 Conductor + 1 Ground 0.5mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Tinned Copper Braid Shield, PVC Outer 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 in noisy industrial environment. |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Conductors |
|--------------|---------------------|-----------|------------------|-------------------|
| Conductor(s) | 0.5 mm ² | Class 5 | BC - Bare Copper | 2 |
| Ground | 0.5 mm ² | Class 5 | BC - Bare Copper | 1 |

Conductor Count: 3

Insulation

| Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Color Chart

| Color |
|--------------|
| Black #1 |
| Black #2 |
| Green/Yellow |

Inner Jacket

| Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Shield

| Type | Material |
|-------|--------------------|
| Braid | Tinned Copper (TC) |

Outer Jacket

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 7.4 mm |

Electrical Characteristics

Conductor DCR

| Max. Conductor DCR |
|--------------------|
| 39 Ohm/km |

Voltage

| Dielectric Withstand Voltage | Non-UL Description | Non-UL Voltage Rating |
|------------------------------|--------------------|-----------------------|
| 4000 V | IEC: | 300/500 V |

Temperature Range

| | |
|--------------------------|---------------|
| Installation Temp Range: | 40°C to +80°C |
| Operating Temp Range: | 15°C to +70°C |

Mechanical Characteristics

| | |
|---------------------------------------|----------|
| Oil Resistance: | Yes |
| UV Resistance: | Yes |
| Bulk Cable Weight: | 80 kg/km |
| Min. Bend Radius During Installation: | 6 x OD |
| Min. Bend Radius During Operation: | 20 x OD |

Standards

| | |
|---------------------------------------|---|
| Other Specification: | IEC 60227-5, EN 50525-2-51, VDE 0281-13 |
| Third Party Performance Verification: | VDE Certification No. 40041970, VDE Registration No. 8770 |

Applicable Environmental and Other Programs

| | |
|-----------------------------------|-----|
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|-----|
| Suitability - Indoor: | Yes |
| Suitability - Oil Resistance: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LS0H, Toxicity Testing

| | |
|---------------------|--|
| IEC Flammability: | IEC 60332-1-2 |
| Other Flammability: | DIN VDE 0482-332-1-2, DIN EN 60332-1-2 |

Part Number

Variants

| Item # | Color | Length |
|-----------------|--------------------|--------|
| 3G0.5CY 01050M | Black, RAL 9005 | 50 m |
| 3G0.5CY 010100M | Black, RAL 9005 | 100 m |
| 3G0.5CY 010200M | Black, RAL 9005 | 200 m |
| 3G0.5CY 010300M | Black, RAL 9005 | 300 m |
| 3G0.5CY 36850M | Clear, Transparent | 50 m |
| 3G0.5CY 368100M | Clear, Transparent | 100 m |
| 3G0.5CY 368200M | Clear, Transparent | 200 m |
| 3G0.5CY 368300M | Clear, Transparent | 300 m |
| 3G0.5CY G8U50M | Gray, RAL 7001 | 50 m |
| 3G0.5CY G8U100M | Gray, RAL 7001 | 100 m |
| 3G0.5CY G8U200M | Gray, RAL 7001 | 200 m |
| 3G0.5CY G8U300M | Gray, RAL 7001 | 300 m |

History

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|----------------------|---|
| Update and Revision: | Revision Number: 0.42 Revision Date: 12-15-2021 |
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