



**Product:** [9G6SY](#)

MachFlex™ 350SY, 8C+1G 6 mm<sup>2</sup> Str BC, PVC Ins, PVC Inner Jkt, GSW Brd, PVC Outer Jkt

## Product Description

MachFlex™ 350SY VDE Certified, 8 Conductor + 1 Ground 6 mm<sup>2</sup> Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Galvanized Steel Wire Braid, PVC Outer Jacket Control Cable

## Technical Specifications

### Product Overview

**Suitable Applications:** Application 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 harsh industrial environment.

### Construction Details

#### Conductor

| Element      | No. of Elements | Size              | Stranding | Stranding Class | Material         |
|--------------|-----------------|-------------------|-----------|-----------------|------------------|
| Conductor(s) | 8               | 6 mm <sup>2</sup> | Stranded  | Class 5         | BC - Bare Copper |
| Ground       | 1               | 6 mm <sup>2</sup> | 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 |
| Ground       | PVC - Polyvinyl Chloride | Yellow/Green   |

#### Inner Jacket

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

#### Armor

| Armor Type & Material        |
|------------------------------|
| SWB - Steel Wire Braid Armor |

#### Outer Jacket

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

Overall Cable Diameter (Nominal): 23.5 mm (0.925 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.   |
|-------------------|----------------|
| 141 mm (5.55 in)  | 470 mm (19 in) |

|                    |                               |
|--------------------|-------------------------------|
| Bulk Cable Weight: | 1006 kg/km (676.0 lbs/1000ft) |
|--------------------|-------------------------------|

## Standards and Compliance

|                                       |   |
|---------------------------------------|---|
| Environmental Suitability:            | Indoor, Outdoor, Oil Resistance - EN 50290-2-22 (TM54), Oil Resistance                    |
| Flammability / Reaction to Fire:      | IEC 60332-1-2, DIN VDE 048233212  |
| 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, EN 50525-2-51, IEC 60227-5   |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.28 Revision Date: 03-19-2024 |
|----------------------|---|

## Part Numbers

### Variants

| Item #        | Color           | Length |
|---------------|-----------------|--------|
| 9G6SY 010100M | Black, RAL 9004 | 100 m  |
| 9G6SY 010200M | Black, RAL 9004 | 200 m  |
| 9G6SY 010300M | Black, RAL 9004 | 300 m  |
| 9G6SY G8U100M | Gray, RAL 7001  | 100 m  |
| 9G6SY G8U200M | Gray, RAL 7001  | 200 m  |
| 9G6SY G8U300M | Gray, RAL 7001  | 300 m  |
| 9G6SY 368100M | Transparent     | 100 m  |
| 9G6SY 368200M | Transparent     | 200 m  |
| 9G6SY 368300M | Transparent     | 300 m  |

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