



**Product:** [19X1.0CY](#)

MachFlex™ 350CY, 19 C 1.0mm<sup>2</sup> Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

## Product Description

MachFlex™ 350CY Control VDE Certified, 19 Conductor 1.0mm<sup>2</sup> 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. |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Element      | No. of Elements | Size              | Stranding | Stranding Class | Material         |
|--------------|-----------------|-------------------|-----------|-----------------|------------------|
| Conductor(s) | 19              | 1 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, Black #9, Black #10, Black #11, Black #12, Black #13, Black #14, Black #15, Black #16, Black #17, Black #18, Black #19 |

#### Outer Shield

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

#### Inner Jacket

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

#### Outer Jacket

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

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 15.8 mm (0.622 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.     |
|-------------------|------------------|
| 94.8 mm (3.73 in) | 316 mm (12.4 in) |

Bulk Cable Weight: 420 kg/km (280 lbs/1000ft)

## Standards and Compliance

|                                       |                                                                                           |
|---------------------------------------|-------------------------------------------------------------------------------------------|
| Environmental Suitability:            | Indoor, Outdoor, Oil Resistance - EN 50290-2-22 (TM54)                                    |
| 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) |
| Other Standard Compliance(s):         | IEC 60227-5, EN 50525-2-51, VDE 0285-525-2-51                                             |

## History

Update and Revision: Revision Number: 0.51 Revision Date: 03-27-2024

## Part Numbers

### Variants

| Item #           | Color           | Length |
|------------------|-----------------|--------|
| 19X1.0CY 010100M | Black, RAL 9004 | 100 m  |
| 19X1.0CY 010200M | Black, RAL 9004 | 200 m  |
| 19X1.0CY 010300M | Black, RAL 9004 | 300 m  |
| 19X1.0CY G8U100M | Gray, RAL 7001  | 100 m  |
| 19X1.0CY G8U200M | Gray, RAL 7001  | 200 m  |
| 19X1.0CY G8U300M | Gray, RAL 7001  | 300 m  |
| 19X1.0CY 368100M | Transparent     | 100 m  |
| 19X1.0CY 368200M | Transparent     | 200 m  |
| 19X1.0CY 368300M | Transparent     | 300 m  |

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