




**Product:** [9X0.75CY](#) 

MachFlex™ 350CY, 8 C 0.75mm<sup>2</sup> Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

## Product Description

MachFlex™ 350CY Control VDE Certified, 9 Conductor 0.75mm<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.

### Physical Characteristics (Overall)

#### Conductor

| Element      | AWG                  | Stranding | Material         | No. of Conductors |
|--------------|----------------------|-----------|------------------|-------------------|
| Conductor(s) | 0.75 mm <sup>2</sup> | Class 5   | BC - Bare Copper | 9                 |

Conductor Count: 9

#### Insulation

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

#### Color Chart

| Color    |
|----------|
| Black #1 |
| Black #2 |
| Black #3 |
| Black #4 |
| Black #5 |
| ...      |
| Black #9 |

#### Outer Shield

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

#### Outer Jacket

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 12.1 mm          |

### Electrical Characteristics

#### Conductor DCR

| Max. Conductor DCR |
|--------------------|
| 26 Ohm/km          |

#### Voltage

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

## Temperature Range

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

## Mechanical Characteristics

|                                       |           |
|---------------------------------------|-----------|
| Oil Resistance:                       | Yes       |
| UV Resistance:                        | Yes       |
| Bulk Cable Weight:                    | 214 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, LSOH, Toxicity Testing

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

## Related Part Numbers

### Variants

| Item #           | Color              | Length |
|------------------|--------------------|--------|
| 9X0.75CY 01050M  | Black, RAL 9005    | 50 m   |
| 9X0.75CY 010100M | Black, RAL 9005    | 100 m  |
| 9X0.75CY 010200M | Black, RAL 9005    | 200 m  |
| 9X0.75CY 36850M  | Clear, Transparent | 50 m   |
| 9X0.75CY 368100M | Clear, Transparent | 100 m  |
| 9X0.75CY 368200M | Clear, Transparent | 200 m  |
| 9X0.75CY G8U50M  | Gray, RAL 7001     | 50 m   |
| 9X0.75CY G8U100M | Gray, RAL 7001     | 100 m  |
| 9X0.75CY G8U200M | Gray, RAL 7001     | 200 m  |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.19 Revision Date: 04-08-2022 |
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