



**Product:** [C18X0.5CY](#)

MachFlex™ 375CY, 18C 0.5 mm<sup>2</sup> Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

## Product Description

MachFlex™ 375CY, 18 Conductor 0.5 mm<sup>2</sup> Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Tinned Copper Braid Shield, PVC Outer Jacket

## Technical Specifications

### Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | Designed for applications which are installed in occasional flexing and fixed locations. Cable applications include precision control sensors, multi axis control machines, temperature controllers, control panels, machine cutting tools, auxiliary equipment, motor speed control, production machinery and many more. Tinned copper braid shield ensures cables with excellent noise immunity |
|------------------------|---|

### Construction Details

#### Conductor

| Element      | No. of Elements | Size                | Stranding | Stranding Class | Material         |
|--------------|-----------------|---------------------|-----------|-----------------|------------------|
| Conductor(s) | 18              | 0.5 mm <sup>2</sup> | Stranded  | Class 5         | BC - Bare Copper |

#### Insulation

| Element      | Material                 | Color Code  |
|--------------|--------------------------|---|
| Conductor(s) | PVC - Polyvinyl Chloride | White, Black, Blue, Brown, Grey, Red, Violet, Pink, Orange, Green, Beige, Black/White, Blue/White, Brown/White, Grey/White, Red/White, Violet/White, Pink/White |

#### 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): | 13.2 mm (0.520 in) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Voltage

| Voltage Rating   |
|--|
| 300/500 V (Max. Operating Voltage), 4000 V (Testing Voltage) |

### Mechanical Characteristics

#### Temperature

| Operating                          | Installation                       |
|------------------------------------|------------------------------------|
| -5°C to +70°C(Occasional movement) | -40°C to +80°C(Fixed installation) |

#### Bend Radius

| Installation Min. | Flexing Min. |
|-------------------|--------------|
|                   |              |

79.2 mm (3.12 in) 264 mm (10.4 in)

Bulk Cable Weight: 264 kg/km (177 lbs/1000ft)

## Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Sunlight Resistance, UV Resistance, Oil Resistance - EN 50290-2-22 (TM54)                        |
| Flammability / Reaction to Fire: | IEC 60332-1-2, DIN VDE 048233212, DIN EN 6033212   |
| ISO/IEC Compliance:              | IEC 60228  |
| CENELEC Compliance:              | EN 50290-2-22  |
| European Directive Compliance:   | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2) |
| Other Standard Compliance(s):    | VDE 0295, DIN VDE 0207-363-4-1, IEC 60227-5, EN 50525-2-51, BS 6360                              |

## History

Update and Revision: Revision Number: 0.34 Revision Date: 11-15-2023

## Part Numbers

### Variants

| Item #            | Color          | Length |
|-------------------|----------------|--------|
| C18X0.5CY 010100M | Black          | 100 m  |
| C18X0.5CY 010200M | Black          | 200 m  |
| C18X0.5CY 010300M | Black          | 300 m  |
| C18X0.5CY G8U100M | Gray, RAL 7001 | 100 m  |
| C18X0.5CY G8U200M | Gray, RAL 7001 | 200 m  |
| C18X0.5CY G8U300M | Gray, RAL 7001 | 300 m  |
| C18X0.5CY 368100M | Transparent    | 100 m  |
| C18X0.5CY 368200M | Transparent    | 200 m  |
| C18X0.5CY 368300M | Transparent    | 300 m  |

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