


**Product:** [18X1.5](#) 



MachFlex™ 350YY, 18 C 1.5mm<sup>2</sup> Str BC, PVC Ins, PVC Jkt

## Product Description

MachFlex™ 350YY Control VDE Certified, 18 Conductor 1.5mm<sup>2</sup> Stranded Bare Copper, PVC Insulation, PVC 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. |
|------------------------|---|

### Physical Characteristics (Overall)

#### Conductor

| Element      | AWG                 | Stranding | Material         | No. of Conductors |
|--------------|---------------------|-----------|------------------|-------------------|
| Conductor(s) | 1.5 mm <sup>2</sup> | Class 5   | BC - Bare Copper | 18                |

Conductor Count: 18

#### Insulation

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

#### Color Chart

| Color     |
|-----------|
| Black #1  |
| Black #2  |
| Black #3  |
| Black #4  |
| Black #5  |
| ...       |
| Black #18 |

#### Outer Jacket

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 14.4 mm          |

### Electrical Characteristics

#### Conductor DCR

| Max. Conductor DCR |
|--------------------|
| 13.3 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:                    | 394 kg/km |
| Min. Bend Radius During Installation: | 4 x OD    |
| Min. Bend Radius During Operation:    | 10 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 |

## Part Number

### Variants

| Item #          | Color           | Length  |
|-----------------|-----------------|---------|
| 18X1.5 010500M  | Black, RAL 9005 | 500 m   |
| 18X1.5 0101000M | Black, RAL 9005 | 1,000 m |
| 18X1.5 G8U500M  | Gray, RAL 7001  | 500 m   |
| 18X1.5 G8U1000M | Gray, RAL 7001  | 1,000 m |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.37 Revision Date: 12-15-2021 |
|----------------------|---|

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