



Product: [5C1.5YY](#)

MachFlex™ LiYY, 5 C 1.5mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ LiYY PVC Control VDE Certified & Signal Cables, 5 Conductor 1.5mm² 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, pressure gauge, temperature controllers, control panels, vibration monitoring systems, intelligent security controllers, production machinery and many more |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Conductors |
|--------------|---------------------|-----------|------------------|-------------------|
| Conductor(s) | 1.5 mm ² | Stranded | BC - Bare Copper | 5 |

Conductor Count: 5

Insulation

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

Color Chart

| Number | Color |
|--------|--------|
| 1 | White |
| 2 | Brown |
| 3 | Green |
| 4 | Yellow |
| 5 | Grey |

Outer Jacket

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 7.9 mm |

Electrical Characteristics

Conductor DCR

| Max. Conductor DCR |
|--------------------|
| 13.3 Ohm/km |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Shield |
|---|--------------------------------------|
| 120 pF/m | 160 pF/m |

Insulation Resistance: 20 GOhm x cm

Min Insulation Resistance: 20 GOhm x cm

Inductance

| Nominal Inductance |
|--------------------|
| 0.5 μH/m |

Voltage

| Description | Voltage Rating [V] |
|-------------------|--------------------|
| Operating Voltage | 500 V |
| Testing Voltage | 1500 V |

Temperature Range

| | |
|--------------------------|----------------|
| Installation Temp Range: | -40°C to +80°C |
| Operating Temp Range: | -5°C to +70°C |

Mechanical Characteristics

| | |
|---------------------------------------|-----------|
| UV Resistance: | Yes |
| Bulk Cable Weight: | 118 kg/km |
| Min. Bend Radius During Installation: | 4 x OD |
| Min. Bend Radius During Operation: | 10 x OD |

Standards

| | |
|----------------------|---|
| Other Specification: | IEC 60228, DIN EN 50290222, VDE 0812, DIN VDE 020736341, DIN 47100, DIN VDE 0295, BS 6360 |
|----------------------|---|

Suitability

| | |
|------------------------------------|-----|
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LS0H, 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 |
|------------------|-----------------|---------|
| 5C1.5YY 010200M | Black, RAL 9005 | 200 m |
| 5C1.5YY 010305M | Black, RAL 9005 | 305 m |
| 5C1.5YY 010500M | Black, RAL 9005 | 500 m |
| 5C1.5YY 0101000M | Black, RAL 9005 | 1,000 m |
| 5C1.5YY F2V200M | Gray, RAL 7032 | 200 m |
| 5C1.5YY F2V305M | Gray, RAL 7032 | 305 m |
| 5C1.5YY F2V500M | Gray, RAL 7032 | 500 m |
| 5C1.5YY F2V1000M | Gray, RAL 7032 | 1,000 m |

History

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|----------------------|---|
| Update and Revision: | Revision Number: 0.14 Revision Date: 12-15-2021 |
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