



Product: [16G0.5CP](#)

MachFlex™ 350CP, 15C+1G 0.5 mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PUR Outer Jkt

Product Description

MachFlex™ 350CP Control Cable, 15 Conductor + 1 Ground 0.5 mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Tinned Copper Braid Shield, PUR 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. PUR jacket provides with excellent abrasion protection and chemical resistance. Tinned copper braid shielding version will ensure the cable with good noise immunity. |
|------------------------|---|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Stranding Class | Material |
|--------------|-----------------|---------------------|-----------|-----------------|------------------|
| Conductor(s) | 15 | 0.5 mm ² | Stranded | Class 5 | BC - Bare Copper |
| Ground | 1 | 0.5 mm ² | 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 |
| Ground | PVC - Polyvinyl Chloride | Yellow/Green |

Outer Shield

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

Inner Jacket

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

Outer Jacket

| Material |
|--------------------|
| PUR - Polyurethane |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 13.1 mm (0.516 in) |
|-----------------------------------|--------------------|

Electrical Characteristics

Voltage

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

Mechanical Characteristics

Temperature

| Operating | Installation |
|--------------------------------------|------------------------------------|
| -20°C to +70°C (Occasional movement) | 40°C to +80°C (Fixed installation) |

Bend Radius

| Installation Min. | Flexing Min. |
|-------------------|------------------|
| 78.6 mm (3.09 in) | 262 mm (10.3 in) |

Bulk Cable Weight: 257 kg/km (173 lbs/1000ft)

Standards and Compliance

| | |
|--------------------------------|--|
| Environmental Suitability: | Sunlight Resistance, UV Resistance, Oil Resistance - 70°C x 4h |
| ISO/IEC Compliance: | IEC 60228 |
| 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): | EN 50525-2-51, VDE 0285, VDE 0295, EN 50363-3, EN 50363-10-2, BS 6360 |

Product Notes

Notes: General Reference Standards : VDE 0207-363-3, DIN VDE 0207-363-10-2

History

Update and Revision: Revision Number: 0.21 Revision Date: 01-16-2024

Part Numbers

Variants

| Item # | Color | Length |
|------------------|----------------|--------|
| 16G0.5CP 010100M | Black | 100 m |
| 16G0.5CP 010200M | Black | 200 m |
| 16G0.5CP 010300M | Black | 300 m |
| 16G0.5CP 006100M | Blue | 100 m |
| 16G0.5CP 006200M | Blue | 200 m |
| 16G0.5CP 006300M | Blue | 300 m |
| 16G0.5CP G8U100M | Gray, RAL 7001 | 100 m |
| 16G0.5CP G8U200M | Gray, RAL 7001 | 200 m |
| 16G0.5CP G8U300M | Gray, RAL 7001 | 300 m |

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