



Product: [C16X1.5SY](#)

MachFlex™ 375SY Control Cable, 16 C 1.5 mm² Str BC, PVC Ins, PVC Inner Jkt, GSWB, PVC Outer Jkt

Product Description

MachFlex™ 375SY Control Cable, 16 Conductor 1.5 mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Galvanized Steel Wire Braid, 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. Galvanized steel wire braid armor provides excellent mechanical protection. |
|------------------------|---|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Stranding Class | Material |
|--------------|-----------------|---------------------|-----------|-----------------|------------------|
| Conductor(s) | 16 | 1.5 mm ² | 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 |

Inner Jacket

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

Armor

| Armor Type & Material |
|------------------------------|
| SWB - Steel Wire Braid Armor |

Outer Jacket

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

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 16.6 mm (0.654 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. |
|-------------------|------------------|
| 99.6 mm (3.92 in) | 332 mm (13.1 in) |

Bulk Cable Weight: 481 kg/km (323 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 0482-332-1-2, DIN EN 60332-1-2 |
| ISO/IEC Compliance: | IEC 60228, IEC 60227-5 |
| CENELEC Compliance: | EN 50290-2-22 |
| European Directive Compliance: | EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2) |
| Other Standard Compliance(s): | VDE 0295, DIN VDE 0207-363-4-1, EN 50525-2-51, BS 6360 |

History

Update and Revision: Revision Number: 0.25 Revision Date: 07-04-2024

Part Numbers

Variants

| Item # | Color | Length |
|-------------------|-----------------|--------|
| C16X1.5SY 010100M | Black, RAL 9004 | 100 m |
| C16X1.5SY 010200M | Black, RAL 9004 | 200 m |
| C16X1.5SY 010300M | Black, RAL 9004 | 300 m |
| C16X1.5SY G8U100M | Gray, RAL 7001 | 100 m |
| C16X1.5SY G8U200M | Gray, RAL 7001 | 200 m |
| C16X1.5SY G8U300M | Gray, RAL 7001 | 300 m |
| C16X1.5SY 368100M | Transparent | 100 m |
| C16X1.5SY 368200M | Transparent | 200 m |
| C16X1.5SY 368300M | Transparent | 300 m |

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