



Product: H12G4SY ☑

MachFlex[™] 610 SY, 11C + 1G 4 mm² Str BC, PVC Ins, PVC Inner Jkt, GSW Brd, PVC Outer Jkt

Product Description

MachFlex™ 610 SY Control Cable 11 Conductor + 1 Ground 4 mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Galvanized Steel Wire Braiding Armor, 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) | 11 | 4 mm² | Stranded | Class 5 | BC - Bare Copper |
| Ground | 1 | 4 mm² | 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 |
| Ground | PVC - Polyvinyl Chloride | Yellow/Green |

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):

23.9 mm (0.941 in)

Electrical Characteristics

Voltage

| Voltage Rating | | |
|---|--|--|
| 600 / 1000 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

Standards and Compliance

| Environmental Suitability: | UV Resistance, Oil Resistance |
|----------------------------------|--|
| 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: 0.18 Revision Date: 07-05-2024 |
|----------------------|---|
| | |

Part Numbers

Variants

| Item # | Color | Length |
|-----------------|----------------|--------|
| H12G4SY 010100M | Black | 100 m |
| H12G4SY 010200M | Black | 200 m |
| H12G4SY 010300M | Black | 300 m |
| H12G4SY G8U100M | Gray, RAL 7001 | 100 m |
| H12G4SY G8U200M | Gray, RAL 7001 | 200 m |
| H12G4SY G8U300M | Gray, RAL 7001 | 300 m |
| H12G4SY 003100M | Orange | 100 m |
| H12G4SY 003200M | Orange | 200 m |
| H12G4SY 003300M | Orange | 300 m |

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