



Product: [H3X10CY](#)

MachFlex™ 610CY Control & Power Cable, 3C 10 mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

Product Description

MachFlex™ 610CY Control & Power Cable, 3 Conductor 10 mm² Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Tinned Copper Braid Shield, 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. Tinned copper braid shield ensures cables with excellent noise immunity. |
|------------------------|--|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Stranding Class | Material |
|--------------|-----------------|--------|-----------|-----------------|------------------|
| Conductor(s) | 3 | 10 mm² | Stranded | Class 5 | BC - Bare Copper |

Insulation

| Element | Material | Color Code |
|--------------|--------------------------|------------------------------|
| Conductor(s) | PVC - Polyvinyl Chloride | Black #1, Black #2, Black #3 |

Outer Shield

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

Inner Jacket

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

Outer Jacket

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

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 20.1 mm (0.791 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

| Installation Min. | Flexing Min. |
|---------------------|------------------|
| 120.6 mm (4.748 in) | 402 mm (15.8 in) |

| | |
|--------------------|----------------------------|
| Bulk Cable Weight: | 698 kg/km (469 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 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: 0.42 Revision Date: 11-15-2023 |
|----------------------|---|

Part Numbers

Variants

| Item # | Color | Length |
|-----------------|----------------|--------|
| H3X10CY 010100M | Black | 100 m |
| H3X10CY 010200M | Black | 200 m |
| H3X10CY 010300M | Black | 300 m |
| H3X10CY G8U100M | Gray, RAL 7001 | 100 m |
| H3X10CY G8U200M | Gray, RAL 7001 | 200 m |
| H3X10CY G8U300M | Gray, RAL 7001 | 300 m |
| H3X10CY 003100M | Orange | 100 m |
| H3X10CY 003200M | Orange | 200 m |
| H3X10CY 003300M | Orange | 300 m |

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