# Product: H34G1.5CY

MachFlex™ 610CY Control & Power Cable, 33C+1G 1.5 mm² Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

## Product Description

MachFlex™ 610CY Control & Power Cable, 33 Conductor + 1 Ground 1.5 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) | 33 | 1.5 mm² | Stranded | Class 5 | BC - Bare Copper |
| Ground | 1 | 1.5 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, Black #12, Black #13, Black #14, Black #15, Black #16, Black #17, Black #18, Black #19, Black #20, Black #21, Black #22, Black #23, Black #24, Black #25, Black #26, Black #27, Black #28, Black #29, Black #30, Black #31, Black #32, Black #33 |
| Ground | PVC - Polyvinyl Chloride | Yellow/Green |

**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): | 28.9 mm (1.14 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. |
|---|---|
| 173.4 mm (6.827 in) | 578 mm (22.8 in) |

| | |
|---|---|
| Bulk Cable Weight: | 1279 kg/km (859.4 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: 0.46 Revision Date: 07-04-2024 |

## Part Numbers

**Variants**

| Item # | Color | Length |
|---|---|---|
| H34G1.5CY 010100M | Black | 100 m |
| H34G1.5CY 010200M | Black | 200 m |
| H34G1.5CY 010300M | Black | 300 m |
| H34G1.5CY G8U100M | Gray, RAL 7001 | 100 m |
| H34G1.5CY G8U200M | Gray, RAL 7001 | 200 m |
| H34G1.5CY G8U300M | Gray, RAL 7001 | 300 m |
| H34G1.5CY 003100M | Orange | 100 m |
| H34G1.5CY 003200M | Orange | 200 m |
| H34G1.5CY 003300M | Orange | 300 m |

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.