



**Product:** [12C0.34YCY](#)

MachFlex™ LiYCY, 12 C 0.34mm<sup>2</sup> Str BC, PVC Ins, TCBS, PVC Jkt

## Product Description

MachFlex™ LiYCY PVC Control & Signal Cables, 12 Conductor 0.34mm<sup>2</sup> Stranded Bare Copper, PVC Insulation, Tinned Copper Braid Shield, PVC 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, pressure gauge, temperature controllers, control panels, vibration monitoring systems, intelligent security controllers, production machinery and many more. Tinned copper braid shield ensure the cables with excellent noise immunity |
|------------------------|--|

### Construction Details

#### Conductor

| Element      | No. of Elements | Size                 | Stranding | Material         |
|--------------|-----------------|----------------------|-----------|------------------|
| Conductor(s) | 12              | 0.34 mm <sup>2</sup> | Stranded  | BC - Bare Copper |

#### Insulation

| Material                 | Color Code   |
|--------------------------|--|
| PVC - Polyvinyl Chloride | White, Brown, Green, Yellow, Gray, Pink, Blue, Red, Black, Violet, Gray/Pink, Red/Blue |

#### Outer Shield

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

#### Outer Jacket

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

|                                   |                  |
|-----------------------------------|------------------|
| Overall Cable Diameter (Nominal): | 7.7 mm (0.30 in) |
|-----------------------------------|------------------|

### Electrical Characteristics

#### Electricals

| Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Shield |
|-------------------------------|---------------------------------|
| 120 pF/m (37 pF/ft)           | 160 pF/m (49 pF/ft)             |

#### Voltage

| Voltage Rating   |
|--|
| 500 V (Max. Operating Voltage), 1500 V (Testing Voltage) |

### Mechanical Characteristics

#### Temperature

| Operating                          | Installation                       |
|------------------------------------|------------------------------------|
| -5°C to +70°C(Occasional movement) | -40°C to +80°C(Fixed installation) |

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
|                 |                   |

115.5 mm (4.547 in) 46.2 mm (1.82 in)

Bulk Cable Weight: 92 kg/km (62 lbs/1000ft)

## Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Sunlight Resistance, UV Resistance   |
| Flammability / Reaction to Fire: | IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2  |
| ISO/IEC Compliance:              | IEC 60228  |
| CENELEC Compliance:              | EN 50290-2-22, EN 50363-4-1  |
| 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 0812, DIN 47100, BS 6360   |

## History

Update and Revision: Revision Number: 0.48 Revision Date: 07-04-2024

## Part Numbers

### Variants

| Item #             | Color          | Length |
|--------------------|----------------|--------|
| 12C0.34YCY 010100M | Black          | 100 m  |
| 12C0.34YCY 010200M | Black          | 200 m  |
| 12C0.34YCY 010300M | Black          | 300 m  |
| 12C0.34YCY 006100M | Blue           | 100 m  |
| 12C0.34YCY 006200M | Blue           | 200 m  |
| 12C0.34YCY 006300M | Blue           | 300 m  |
| 12C0.34YCY F2V100M | Gray, RAL 7032 | 100 m  |
| 12C0.34YCY F2V200M | Gray, RAL 7032 | 200 m  |
| 12C0.34YCY F2V300M | Gray, RAL 7032 | 300 m  |

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