

# Flexible YY PVC (YSLY) Multicore Control Cable

**multicomp** PRO

**RoHS  
Compliant**



## Application

This flexible YY multicore control cable for instrumentation and control equipment, for tooling machinery production lines, and in flexible applications for free movement without tensile load. Suitable for dry, ambient, wet places. These indoor cables are not used for external or underground installation.

YY control cables are not suitable for fixed wiring applications requiring compliance with the regulations set out in BS7671.

## Characteristics

|                        |  |
|------------------------|--|
| Voltage Rating         | : 300/500V   |
| Test Voltage           | : 4kV  |
| Temperature Rating     | : Fixed: -40°C to +80°C<br>Flexed: -5°C to +70°C                 |
| Minimum Bending Radius | : Fixed: 4 × overall diameter<br>Flexed: 12.5 × overall diameter |

## Cable Standards

VDE 0207-363-3, VDE 0285-525-2-51, VDE 0285-525-1, VDE 0285-525-2-11, VDE 0482-332-1-2, VDE 819-102 (TM54)  
Flame Retardant according to IEC 60332-1-2



## UK Laboratory Tested

This product is subject to the Quality Assurance protocols of The Cable Lab®, a UKAS accredited ISO 17025 cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



## Regulatory Compliance

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



## Construction

### Conductor

Class 5 flexible plain copper wires

### Insulation

PVC (Polyvinyl Chloride)

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## Sheath

PVC (Polyvinyl Chloride)

## Core Identification

Black with white number

From 3 cores: Black with white number + Green/Yellow

## Sheath Colour

Grey

## Dimensions

| Part Number | No. of Cores | Nominal Cross Sectional Area mm <sup>2</sup> | Nominal Thickness of Insulation mm | Nominal Thickness of Sheath mm | Nominal Overall Diameter mm | Nominal Weight kg/km |
|-------------|--------------|--|------------------------------------|--------------------------------|-----------------------------|----------------------|
| PP001620    | 2            | 0.5  | 0.4                                | 0.7                            | 4.8                         | 36                   |
| PP001621    | 2            | 0.75   | 0.4                                | 0.7                            | 5.2                         | 46                   |
| PP001622    | 2            | 1  | 0.4                                | 0.7                            | 5.6                         | 56                   |
| PP001623    | 2            | 1.5  | 0.4                                | 0.8                            | 6.4                         | 73                   |
| PP001624    | 2            | 2.5  | 0.5                                | 0.9                            | 7.6                         | 113                  |
| PP001625    | 3            | 0.5  | 0.4                                | 0.7                            | 5.1                         | 44                   |
| PP001626    | 3            | 0.75   | 0.4                                | 0.7                            | 5.5                         | 55                   |
| PP001627    | 3            | 1  | 0.4                                | 0.8                            | 6.1                         | 69                   |
| PP001628    | 3            | 1.5  | 0.4                                | 0.8                            | 6.8                         | 91                   |
| PP001629    | 3            | 2.5  | 0.5                                | 0.9                            | 8.3                         | 140                  |
| PP001630    | 3            | 4  | 0.6                                | 1                              | 10                          | 210                  |
| PP001631    | 3            | 6  | 0.65                               | 1.1                            | 11.5                        | 293                  |
| PP001632    | 4            | 0.5  | 0.4                                | 0.7                            | 5.5                         | 54                   |
| PP001633    | 4            | 0.75   | 0.4                                | 0.8                            | 6.2                         | 70                   |
| PP001634    | 4            | 1  | 0.4                                | 0.8                            | 6.7                         | 85                   |
| PP001635    | 4            | 1.5  | 0.4                                | 0.9                            | 7.6                         | 116                  |
| PP001636    | 4            | 2.5  | 0.5                                | 1                              | 9.3                         | 179                  |
| PP001637    | 4            | 4  | 0.6                                | 1.1                            | 11.2                        | 269                  |
| PP001638    | 4            | 6  | 0.65                               | 1.2                            | 12.8                        | 374                  |
| PP001639    | 5            | 0.75   | 0.4                                | 0.8                            | 6.7                         | 83                   |
| PP001640    | 5            | 1  | 0.4                                | 0.9                            | 7.5                         | 104                  |
| PP001641    | 5            | 1.5  | 0.4                                | 0.9                            | 8.3                         | 136                  |
| PP001642    | 5            | 2.5  | 0.5                                | 1.1                            | 10.3                        | 213                  |
| PP001643    | 5            | 4  | 0.6                                | 1.2                            | 12.4                        | 321                  |
| PP001644    | 5            | 6  | 0.65                               | 1.3                            | 14.3                        | 447                  |
| PP001645    | 7            | 0.75   | 0.4                                | 0.9                            | 7.5                         | 108                  |
| PP001646    | 7            | 1  | 0.4                                | 0.9                            | 8.1                         | 130                  |

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| Part Number | No. of Cores | Nominal Cross Sectional Area mm <sup>2</sup> | Nominal Thickness of Insulation mm | Nominal Thickness of Sheath mm | Nominal Overall Diameter mm | Nominal Weight kg/km |
|-------------|--------------|--|------------------------------------|--------------------------------|-----------------------------|----------------------|
| PP001647    | 7            | 1.5  | 0.4                                | 1                              | 9.2                         | 177                  |
| PP001648    | 7            | 2.5  | 0.5                                | 1.1                            | 11.2                        | 277                  |
| PP001609    | 8            | 0.75   | 0.4                                | 0.9                            | 8.1                         | 120                  |
| PP001610    | 8            | 1  | 0.4                                | 1                              | 9                           | 150                  |
| PP001611    | 8            | 1.5  | 0.4                                | 1                              | 10                          | 200                  |
| PP001612    | 12           | 0.5  | 0.4                                | 1                              | 9.1                         | 139                  |
| PP001613    | 12           | 0.75   | 0.4                                | 1                              | 9.9                         | 179                  |
| PP001614    | 12           | 1  | 0.4                                | 1.1                            | 10.9                        | 225                  |
| PP001615    | 12           | 1.5  | 0.4                                | 1.2                            | 12.4                        | 302                  |
| PP001616    | 18           | 0.5  | 0.4                                | 1.1                            | 10.7                        | 201                  |
| PP001617    | 18           | 0.75   | 0.4                                | 1.2                            | 11.9                        | 230                  |
| PP001618    | 18           | 1  | 0.4                                | 1.2                            | 12.9                        | 324                  |
| PP001619    | 18           | 1.5  | 0.4                                | 1.4                            | 14.8                        | 446                  |

## Electrical Characteristics

| Nominal Cross Sectional Area mm <sup>2</sup> | Current Carrying Capacities 30°C Continuous Loading | Maximum Resistance of Conductor at 20°C |
|--|---|---|
|  | A   | Ω/km                                    |
| 0.5  | 9   | 39                                      |
| 0.75   | 12  | 26                                      |
| 1  | 15  | 19.5                                    |
| 1.5  | 18  | 13.3                                    |
| 2.5  | 26  | 7.98                                    |
| 4  | 34  | 4.95                                    |
| 6  | 44  | 3.3                                     |

## Part Number Table

| Description                                    | No. of Cores | Nominal Cross Sectional Area mm <sup>2</sup> | Reel Length | Part Number |
|--|--------------|--|-------------|-------------|
| Flexible YY PVC (YSLY) Multicore Control Cable | 2            | 0.5  | 50m         | PP001620    |
|  | 2            | 0.75   |             | PP001621    |
|  | 2            | 1  |             | PP001622    |
|  | 2            | 1.5  |             | PP001623    |
|  | 2            | 2.5  |             | PP001624    |
|  | 3            | 0.5  |             | PP001625    |
|  | 3            | 0.75   |             | PP001626    |
|  | 3            | 1  |             | PP001627    |

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| Description                                    | No. of Cores | Nominal Cross Sectional Area mm <sup>2</sup> | Reel Length | Part Number |
|--|--------------|--|-------------|-------------|
| Flexible YY PVC (YSLY) Multicore Control Cable | 3            | 1.5  | 50m         | PP001628    |
|  | 3            | 2.5  |             | PP001629    |
|  | 3            | 4  |             | PP001630    |
|  | 3            | 6  |             | PP001631    |
|  | 4            | 0.5  |             | PP001632    |
|  | 4            | 0.75   |             | PP001633    |
|  | 4            | 1  |             | PP001634    |
|  | 4            | 1.5  |             | PP001635    |
|  | 4            | 2.5  |             | PP001636    |
|  | 4            | 4  |             | PP001637    |
|  | 4            | 6  |             | PP001638    |
|  | 5            | 0.75   |             | PP001639    |
|  | 5            | 1  |             | PP001640    |
|  | 5            | 1.5  |             | PP001641    |
|  | 5            | 2.5  |             | PP001642    |
|  | 5            | 4  |             | PP001643    |
|  | 5            | 6  |             | PP001644    |
|  | 7            | 0.75   |             | PP001645    |
|  | 7            | 1  |             | PP001646    |
|  | 7            | 1.5  |             | PP001647    |
|  | 7            | 2.5  |             | PP001648    |
|  | 8            | 0.75   |             | PP001609    |
|  | 8            | 1  |             | PP001610    |
|  | 8            | 1.5  |             | PP001611    |
|  | 12           | 0.5  |             | PP001612    |
|  | 12           | 0.75   |             | PP001613    |
|  | 12           | 1  |             | PP001614    |
|  | 12           | 1.5  |             | PP001615    |
|  | 18           | 0.5  |             | PP001616    |
|  | 18           | 0.75   |             | PP001617    |
| 18   | 1            | PP001618                                     |             |             |
| 18   | 1.5          | PP001619                                     |             |             |

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