******YY PVC (YSLY) Control Cable**

**Overview**

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

|  |
| --- |
| **Standards** |
| VDE 0207-363-3, VDE 0482-332-1-2, VDE 819-102 (TM54)  Flame Retardant according to BS EN/IEC 60332-1-2 |

**Additional information**

|  |  |
| --- | --- |
| **Conductor** | Class 5 flexible plain copper |
| **Insulation** | PVC (Polyvinyl Chloride) |
| **Sheath** | PVC (Polyvinyl Chloride) |
| **Voltage Rating (Uo/U)** | 300/500V |
| **Temp Rating** | Fixed: -40°C to +80°C  Flexed: -5°C to +70°C |
| **Min Bending Radius** | Fixed: 4 x overall diameter  Flexed: 8 x overall diameter |
| **Core Identification:** | Black with White number |
| **From 3 cores** | Black with White number plus Green/Yellow |
|  | Colour-coded cores available upon request |
| **Sheath Colour** | Grey |

**UKAS 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.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No of cores** | **Nominal Cross-Sectional Area**  **mm²** | **Nominal Thickness of Insulation**  **mm** | **Nominal Thickness of Outer Sheath**  **mm** | **Nominal Overall Diameter**  **mm** | **Nominal Weight**  **kg/km** |
| 2 | 0.5 | 0.40 | 0.7 | 4.8 | 36 |
| 2 | 0.75 | 0.40 | 0.7 | 5.2 | 46 |
| 2 | 1 | 0.40 | 0.7 | 5.6 | 56 |
| 2 | 1.5 | 0.40 | 0.8 | 6.4 | 73 |
| 2 | 2.5 | 0.50 | 0.9 | 7.6 | 113 |
| 3 | 0.5 | 0.40 | 0.7 | 5.1 | 44 |
| 3 | 0.75 | 0.40 | 0.7 | 5.5 | 55 |
| 3 | 1 | 0.40 | 0.8 | 6.1 | 69 |
| 3 | 1.5 | 0.40 | 0.8 | 6.8 | 91 |
| 3 | 2.5 | 0.50 | 0.9 | 8.3 | 140 |
| 3 | 4 | 0.60 | 1 | 10 | 210 |
| 3 | 6 | 0.65 | 1.10 | 11.5 | 293 |
| 3 | 10 | 0.75 | 1.40 | 14.9 | 500 |
| 3 | 16 | 0.75 | 1.50 | 16.8 | 704 |
| 3 | 25 | 0.90 | 1.80 | 21.1 | 1080 |
| 4 | 0.5 | 0.40 | 0.7 | 5.5 | 54 |
| 4 | 0.75 | 0.40 | 0.8 | 6.2 | 70 |
| 4 | 1 | 0.40 | 0.8 | 6.7 | 85 |
| 4 | 1.5 | 0.40 | 0.9 | 7.6 | 116 |
| 4 | 2.5 | 0.50 | 1 | 9.3 | 179 |
| 4 | 4 | 0.60 | 1.10 | 11.2 | 269 |
| 4 | 6 | 0.65 | 1.20 | 12.8 | 374 |
| 4 | 10 | 0.75 | 1.50 | 16.6 | 608 |
| 4 | 16 | 0.75 | 1.60 | 18.7 | 844 |
| 4 | 25 | 0.90 | 2 | 23.6 | 1327 |
| 4 | 35 | 0.95 | 2.20 | 27.2 | 1790 |
| 5 | 0.5 | 0.40 | 0.8 | 6.2 | 64 |
| 5 | 0.75 | 0.40 | 0.8 | 6.7 | 83 |
| 5 | 1 | 0.40 | 0.9 | 7.5 | 104 |
| 5 | 1.5 | 0.40 | 0.9 | 8.3 | 136 |
| 5 | 2.5 | 0.50 | 1.10 | 10.3 | 213 |
| 5 | 4 | 0.60 | 1.20 | 12.4 | 321 |
| 5 | 6 | 0.65 | 1.30 | 14.3 | 447 |
| 5 | 10 | 0.75 | 1.60 | 18.4 | 760 |
| 5 | 16 | 0.75 | 1.80 | 20.9 | 1064 |
| 5 | 25 | 0.90 | 2.20 | 26.4 | 1673 |
| 5 | 35 | 0.95 | 2.40 | 30.3 | 2252 |
| 7 | 0.5 | 0.40 | 0.8 | 6.7 | 81 |
| 7 | 0.75 | 0.40 | 0.9 | 7.5 | 108 |
| 7 | 1 | 0.40 | 0.9 | 8.1 | 130 |
| 7 | 1.5 | 0.40 | 1 | 9.2 | 177 |
| 7 | 2.5 | 0.50 | 1.10 | 11.2 | 277 |
| 7 | 4 | 0.60 | 1.30 | 13.7 | 423 |
| 7 | 6 | 0.65 | 1.40 | 15.7 | 593 |
| 8 | 0.75 | 0.40 | 0.9 | 8.1 | 120 |
| 8 | 1 | 0.40 | 1 | 9 | 150 |
| 8 | 1.5 | 0.40 | 1 | 10 | 200 |
| 12 | 0.5 | 0.40 | 1 | 9.1 | 139 |
| 12 | 0.75 | 0.40 | 1 | 9.9 | 179 |
| 12 | 1 | 0.40 | 1.10 | 10.9 | 224 |
| 12 | 1.5 | 0.40 | 1.20 | 12.4 | 302 |
| 18 | 0.5 | 0.40 | 1.1 | 10.7 | 201 |
| 18 | 0.75 | 0.40 | 1.20 | 11.9 | 230 |
| 18 | 1 | 0.40 | 1.20 | 12.9 | 324 |
| 18 | 1.5 | 0.40 | 1.40 | 14.8 | 446 |
| 18 | 2.5 | 0.50 | 1.60 | 18.2 | 704 |
| 25 | 0.5 | 0.40 | 1.2 | 12.9 | 285 |
| 25 | 0.75 | 0.40 | 1.30 | 14.3 | 372 |
| 25 | 1 | 0.40 | 1.40 | 15.7 | 462 |
| 25 | 1.5 | 0.40 | 1.60 | 18 | 627 |
| 25 | 2.5 | 0.50 | 1.90 | 22.3 | 997 |
| 34 | 0.75 | 0.40 | 1.50 | 16.3 | 492 |
| 34 | 1 | 0.40 | 1.60 | 17.9 | 617 |
| 34 | 1.5 | 0.40 | 1.70 | 20.2 | 833 |
| 34 | 2.5 | 0.50 | 2.10 | 25.2 | 1337 |
| 50 | 1 | 0.40 | 1.80 | 21 | 869 |
| 50 | 1.5 | 0.40 | 2 | 23.8 | 1186 |
| 50 | 2.5 | 0.50 | 2.40 | 29.6 | 1898 |
| 61 | 1 | 0.40 | 1.90 | 22.7 | 1031 |

**Electrical Characteristics**

|  |  |  |
| --- | --- | --- |
| **Nominal Cross-**  **sectional Area**  **mm²** | **Current Carrying Capacities 30°C Continuous Loading**  **A** | **Maximum Resistance of Conductor at 20°C**  **Ohms/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 |
| 10 | 61 | 1.91 |
| 16 | 82 | 1.21 |
| 25 | 108 | 0.780 |
| 35 | 135 | 0.554 |

