

YY PVC Multicore

Unscreened Control Flexible Cable

multicomp PRO



**RoHS
Compliant**

Application:

Used as interconnecting cable for measuring, controlling or regulation in control equipment for assembly and production lines, conveyors and for computer units. Suitable for fixed installations or for flexible use in conditions of light mechanical stress. Can be used outdoors when protected against direct sunlight, and in dry or moist conditions indoors.

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

Construction:

Conductor:

Class 5 flexible copper conductor

Insulation:

PVC (Polyvinyl Chloride) T12 according to BS EN 50363

Sheath:

PVC (Polyvinyl Chloride) TM2 according to BS EN 50363

Cable Standards

VDE 0250, BS EN/IEC 60332-1

Characteristics:

Voltage Rating (Uo/U)

300/500V

Temperature Rating:

Fixed : -40°C to +70°C

Flexed : -5°C to +70°C

Min. Bending Radius:

Fixed : 4 × overall diameter

Flexed : 12.5 × overall diameter

Core Identification:

Coloured Cores:

3 core : Green/Yellow, Blue and Brown

4 core : Green/Yellow, Brown, Black and Grey

5 core : Green/Yellow, Brown, Black, Grey and Blue

Sheath Colour:

Grey

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Dimensions:

| Part Number | No. of Cores | Nominal Cross Sectional Area mm ² | Nominal Overall Diameter mm | Nominal Weight kg/km |
|-------------|--------------|--|-----------------------------|----------------------|
| PP001167 | 3 | 1.5 | 7.54 | 95 |
| PP001168 | | 2.5 | 9.04 | 144 |
| PP001169 | 4 | 1.5 | 8.23 | 117 |
| PP001170 | | 2.5 | 9.87 | 178 |
| PP001171 | 5 | 2.5 | 11.05 | 213 |

Conductors

Class 5 Flexible Copper Conductors for Multi-Core Cables

| Nominal Cross Sectional Area mm ² | Max. Diameter of Wires in Conductor mm | Max. Resistance of Conductor at 20°C Plain Wires Ω / km |
|--|--|---|
| 1.5 | 0.26 | 13.3 |
| 2.5 | 0.26 | 7.98 |

The above table is in accordance with BS EN 60228 (previously BS 6360)

Electrical Characteristics:

Current Carrying Capacity at 30°C

| Nominal Cross Sectional Area mm ² | Current Rating Amps |
|--|---------------------|
| 1.5 | 18 |
| 2.5 | 26 |

The above table is a guide extracted from DIN VDE 0298 Part 4 and DIN 0100 Part 430

De-Rating Factors:

| | |
|------------------|------|
| No. of Cores | 5 |
| De-Rating Factor | 0.75 |

Part Number Table

| Description | Reel Length | Part Number |
|--|-------------|-------------|
| YY Multicore Cable, 3 Core, 1.5mm ² | 50m | PP001167 |
| YY Multicore Cable, 3 Core, 2.5mm ² | | PP001168 |
| YY Multicore Cable, 4 Core, 1.5mm ² | | PP001169 |
| YY Multicore Cable, 4 Core, 2.5mm ² | | PP001170 |
| YY Multicore Cable, 5 Core, 2.5mm ² | | PP001171 |

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