



YY Control Flexible Cable

Application and Description

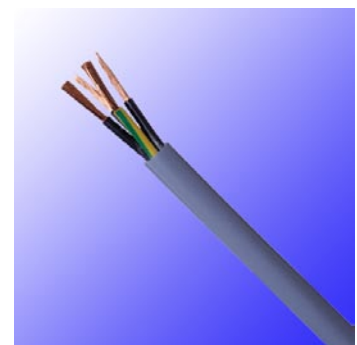
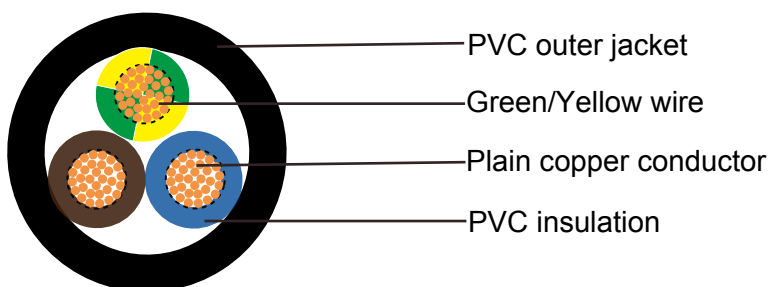
YY Control Flexible Cable is used as connecting cable, as measuring, checking and control cable in machine tool manufacturing, plant engineering and on assembly lines and production lines to meet stringent safety requirements. Suitable for fixed installation or flexible applications with unrestricted mobility without forced movement control and without exposure to tensile load installation in dry and moist rooms; outdoor installation not permitted.

Standard and Approval

Generally to BS6500, VDE0250

Cable Construction

- Plain copper conductor
- Stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5
- PVC core insulation type Y12
- Color coded to VDE-0293-308
- Green-yellow grounding (3 conductors and above)
- PVC outer jacket type YM2





German Standard (VDE)

Technical Characteristics

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Minimum bending radius: 10 x Ø
- Flexing temperature: -5° C to +70° C
- Static temperature: -35° C to +70° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Cable Parameter

| AWG | No. of Cores x Nominal Cross Sectional Area # x mm ² | Nominal Overall Diameter mm | Nominal Copper Weight kg/km | Nominal Cable Weight kg/km |
|-----------|--|-----------------------------------|-----------------------------------|----------------------------------|
| 20(16/32) | 2 x 0.50 | 4.7 | | 32 |
| 18(24/32) | 2 x 0.75 | 5.1 | | 39 |
| 17(32/32) | 2 x 1.00 | 5.3 | | 49 |
| 16(30/30) | 2 x 1.50 | 6.2 | | 61 |
| 14(30/50) | 2 x 2.50 | 7.3 | | 92 |
| 20(16/32) | 3 x 0.50 | 5.1 | | 39 |
| 18(24/32) | 3 x 0.75 | 5.4 | | 50 |
| 17(32/32) | 3 x 1.00 | 5.6 | | 60 |
| 16(30/30) | 3 x 1.50 | 6.5 | | 79 |
| 14(30/50) | 3 x 2.50 | 7.7 | | 119 |
| 12(56/28) | 3 x 4.00 | 9.3 | | 176 |
| 10(84/28) | 3 x 6.00 | 11.0 | | 255 |
| 8(80/26) | 3 x 10.00 | 14.0 | | 411 |
| 6(128/26) | 3 x 16.00 | 18.2 | | 653 |
| 20(16/32) | 4 x 0.50 | 5.4 | | 46 |
| 18(24/32) | 4 x 0.75 | 5.9 | | 59 |
| 17(32/32) | 4 x 1.00 | 6.5 | | 69 |
| 16(30/30) | 4 x 1.50 | 7.4 | | 92 |
| 14(30/50) | 4 x 2.50 | 8.5 | | 148 |
| 12(56/28) | 4 x 4.00 | 10.2 | | 219 |
| 10(84/28) | 4 x 6.00 | 12.3 | | 323 |
| 8(80/26) | 4 x 10.00 | 15.0 | | 513 |
| 6(128/26) | 4 x 16.00 | 19.2 | | 844 |
| 4(200/26) | 4 x 25.00 | 23.0 | | 1252 |
| 20(16/32) | 5 x 0.50 | 6.2 | | 57 |



Addison Industrial Cables

German Standard (VDE)

| AWG | No. of Cores x Nominal Cross Sectional Area # x mm ² | Nominal Overall Diameter mm | Nominal Copper Weight kg/km | Nominal Cable Weight kg/km |
|-----------|--|-----------------------------------|-----------------------------------|----------------------------------|
| 18(24/32) | 5 x 0.75 | 6.7 | | 68 |
| 17(32/32) | 5 x 1.00 | 6.9 | | 83 |
| 16(30/30) | 5 x 1.50 | 7.9 | | 109 |
| 14(30/50) | 5 x 2.50 | 9.7 | | 180 |
| 12(56/28) | 5 x 4.00 | 11.6 | | 269 |
| 10(84/28) | 5 x 6.00 | 13.5 | | 391 |
| 8(80/26) | 5 x 10.00 | 17.1 | | 650 |
| 6(128/26) | 5 x 16.00 | 21.3 | | 1012 |
| 4(200/26) | 5 x 25.00 | 25.8 | | 1548 |
| 2(280/26) | 5 x 35.00 | 29.5 | | 2029 |
| 18(24/32) | 6 x 0.75 | 6.9 | | 81 |
| 17(32/32) | 6 x 1.00 | 7.0 | | 101 |
| 20(16/32) | 7 x 0.50 | 6.6 | | 70 |
| 18(24/32) | 7 x 0.75 | 7.1 | | 90 |
| 17(32/32) | 7 x 1.00 | 7.5 | | 104 |
| 16(30/30) | 7 x 1.50 | 9.0 | | 147 |
| 14(30/50) | 7 x 2.50 | 10.1 | | 232 |
| 18(24/32) | 8 x 0.75 | 7.4 | | 100 |
| 17(32/32) | 8 x 1.00 | 8.0 | | 120 |
| 16(30/30) | 8 x 1.50 | 9.5 | | 169 |
| 20(16/32) | 12 x 0.50 | 8.6 | | 110 |
| 18(24/32) | 12 x 0.75 | 9.4 | | 146 |
| 17(32/32) | 12 x 1.00 | 9.9 | | 174 |
| 16(30/30) | 12 x 1.50 | 11.6 | | 237 |
| 14(30/50) | 12 x 2.50 | 13.9 | | 377 |
| 18(24/32) | 18 x 0.75 | 11.1 | | 211 |
| 17(32/32) | 18 x 1.00 | 11.7 | | 252 |
| 16(30/30) | 18 x 1.50 | 13.7 | | 347 |
| 14(30/50) | 18 x 2.50 | 17.1 | | 575 |
| 18(24/32) | 25 x 0.75 | 13.4 | | 289 |
| 16(30/30) | 25 x 1.50 | 16.9 | | 490 |
| 17(32/32) | 34 x 1.00 | 16.3 | | 477 |
| 17(32/32) | 41 x 1.00 | 17.7 | | 566 |
| 18(24/32) | 42 x 0.75 | 16.0 | | 461 |
| 17(32/32) | 50 x 1.00 | 19.1 | | 682 |
| 18(24/32) | 61 x 0.75 | 19.8 | | 673 |
| 18(24/32) | 65 x 0.75 | 20.7 | | 774 |