

## CY-JB Copper Shield & Colored Cores



**CY-JB** is an oil-resistant PVC power and control cable with a tinned copper wire braid. Suitable for fixed or flexible applications. Commonly used as a measuring, regulating and control cable used in machine tool, plant engineering and construction, conveying and transport systems, assembly and production lines, air conditioning and ventilation systems and paint-spray lines. Designed for free and unrestricted movements without exposure to tensile loads. The tinned copper braid provides interference-free data and signal transmissions and greater electromagnetic protection from electrical drives and frequency converters. Outdoor installation is not permitted.



### Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293-308 - Colored Cores
- For 6 cores and up, use **JB Full Color** chart
- Gray PVC inner jacket
- 85% Tinned Copper Braid
- Transparent PVC outer jacket
- "OB" denotes no ground wire
- **Extremely oil & chemical resistant**

### Technical:

- Working voltage: 300/500 volts
- Voltage 450/750v (16 AWG and up)
- Test voltage: 4000 volts
- Flexing bending radius: 20 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >20 MΩ x km

### Approvals:

- VDE-0245, 0281, 0293, 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

| PART NUMBER                   | CORES | NOMINAL OD      | CU LBS/MFT | WT LBS/MFT |
|-------------------------------|-------|-----------------|------------|------------|
| <b>20 AWG (16/32) 0,50mm2</b> |       |                 |            |            |
| 1302002 OB                    | 2     | 0.272" / 6.9mm  | 25         | 45         |
| 1312003                       | 3     | 0.283" / 7.2mm  | 31         | 56         |
| 1312004                       | 4     | 0.307" / 7.8mm  | 37         | 63         |
| 1312005                       | 5     | 0.327" / 8.3mm  | 44         | 72         |
| 1312007                       | 7     | 0.374" / 9.5mm  | 54         | 91         |
| <b>18 AWG (24/32) 0,75mm2</b> |       |                 |            |            |
| 1301802 OB                    | 2     | 0.299" / 7.6mm  | 29         | 58         |
| 1311803                       | 3     | 0.307" / 7.8mm  | 39         | 66         |
| 1311804                       | 4     | 0.327" / 8.3mm  | 43         | 76         |
| 1311805                       | 5     | 0.358" / 9.1mm  | 52         | 87         |
| 1311807                       | 7     | 0.409" / 10.4mm | 68         | 105        |
| <b>17 AWG (32/32) 1,00mm2</b> |       |                 |            |            |
| 1301702 OB                    | 2     | 0.311" / 7.9mm  | 37         | 65         |
| 1311703                       | 3     | 0.323" / 8.2mm  | 44         | 69         |
| 1311704                       | 4     | 0.350" / 8.9mm  | 52         | 98         |
| 1311705                       | 5     | 0.374" / 9.5mm  | 60         | 112        |
| 1311707                       | 7     | 0.433" / 11.0mm | 85         | 147        |
| <b>16 AWG (30/30) 1,50mm2</b> |       |                 |            |            |
| 1301602 OB                    | 2     | 0.331" / 8.4mm  | 42         | 87         |
| 1311603                       | 3     | 0.354" / 9.0mm  | 51         | 102        |
| 1311604                       | 4     | 0.378" / 9.6mm  | 64         | 113        |
| 1311605                       | 5     | 0.413" / 10.5mm | 74         | 135        |
| 1311607                       | 7     | 0.476" / 12.1mm | 99         | 204        |
| <b>14 AWG (50/30) 2,50mm2</b> |       |                 |            |            |
| 1301402 OB                    | 2     | 0.394" / 10.0mm | 64         | 121        |
| 1311403                       | 3     | 0.421" / 10.7mm | 99         | 145        |
| 1311404                       | 4     | 0.449" / 11.4mm | 117        | 179        |
| 1311405                       | 5     | 0.492" / 12.5mm | 134        | 233        |
| 1311407                       | 7     | 0.591" / 15.0mm | 158        | 273        |
| <b>12 AWG (56/28) 4,00mm2</b> |       |                 |            |            |
| 1301202 OB                    | 2     | 0.457" / 11.6mm | 91         | 203        |
| 1311203                       | 3     | 0.484" / 12.3mm | 119        | 228        |
| 1311204                       | 4     | 0.528" / 13.4mm | 148        | 275        |
| 1311205                       | 5     | 0.583" / 14.8mm | 220        | 337        |

Sizes continued on next page.

## CY-JB Copper Shield & Colored Cores



### CY-JB Sizes Continued. ( 10 AWG and Larger )

| PART NUMBER                                 | CORES | NOMINAL OD      | CU LBS/MFT | WT LBS/MFT |
|---|-------|-----------------|------------|------------|
| <b>10 AWG (84/28) 6,00mm<sup>2</sup></b>    |       |                 |            |            |
| 1301002 OB                                  | 2     | 0.531" / 13.5mm | 117        | 235        |
| 1311003                                     | 3     | 0.559" / 14.2mm | 161        | 302        |
| 1311004                                     | 4     | 0.614" / 15.6mm | 205        | 375        |
| 1311005                                     | 5     | 0.673" / 17.1mm | 296        | 471        |
| <b>8 AWG (80/26) 10,0mm<sup>2</sup></b>     |       |                 |            |            |
| 1300802 OB                                  | 2     | 0.661" / 16.8mm | 178        | 335        |
| 1310803                                     | 3     | 0.701" / 17.8mm | 248        | 502        |
| 1310804                                     | 4     | 0.776" / 19.7mm | 325        | 684        |
| 1310805                                     | 5     | 0.850" / 21.6mm | 409        | 748        |
| <b>6 AWG (128/26) 16,0mm<sup>2</sup></b>    |       |                 |            |            |
| 1310604                                     | 4     | 0.890" / 22.6mm | 832        | 926        |
| 1310605                                     | 5     | 0.992" / 25.2mm | 933        | 1042       |
| <b>4 AWG (200/26) 25,0mm<sup>2</sup></b>    |       |                 |            |            |
| 1310404                                     | 4     | 1.138" / 28.9mm | 879        | 1268       |
| 1310405                                     | 5     | 1.252" / 31.8mm | 1234       | 1523       |
| <b>2 AWG (280/26) 35,0mm<sup>2</sup></b>    |       |                 |            |            |
| 1310204                                     | 4     | 1.268" / 32.2mm | 1080       | 1603       |
| 1310205                                     | 5     | 1.433" / 36.4mm | 1352       | 1935       |
| <b>1 AWG (400/26) 50,0mm<sup>2</sup></b>    |       |                 |            |            |
| 1310104                                     | 4     | 1.504" / 38.2mm | 1489       | 2223       |
| 1310105                                     | 5     | 1.697" / 43.1mm | 1932       | 2784       |
| <b>2/0 AWG (356/24) 70,0mm<sup>2</sup></b>  |       |                 |            |            |
| 1312104                                     | 4     | 1.843" / 46.8mm | 2073       | 3085       |
| 1312105                                     | 5     | 2.039" / 51.8mm | 2704       | 3857       |
| <b>3/0 AWG (485/24) 95,0mm<sup>2</sup></b>  |       |                 |            |            |
| 1313104                                     | 4     | 2.008" / 51.0mm | 2723       | 4065       |
| 1313105                                     | 5     | 2.209" / 56.1mm | 3517       | 5084       |
| <b>4/0 AWG (614/24) 120,0mm<sup>2</sup></b> |       |                 |            |            |
| 1314104                                     | 4     | 2.205" / 56.0mm | 3554       | 4906       |
| <b>300 MCM (765/24) 150,0mm<sup>2</sup></b> |       |                 |            |            |
| 1313004                                     | 4     | 2.504" / 63.6mm | 4544       | 6492       |
| <b>350 MCM (944/24) 185,0mm<sup>2</sup></b> |       |                 |            |            |
| 1313504                                     | 4     | 2.677" / 68.0mm | 5646       | 7458       |

\* Additional sizes may be available.