

## 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.

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### 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.