

CY-JB

PVC, Colored Cores, Copper Shielded, 450/750V



CY-JB (OB) is an oil-resistant PVC power and control cable with a tinned copper 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, ventilation systems and paint-spray lines. Designed for free 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 converters. Outdoor installation is not permitted.

► Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-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 (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
20 AWG (16/32) 0,50mm²						
1302002	OB	2	0.272"	6.9mm	28	50
1312003		3	0.287"	7.3mm	31	56
1312004		4	0.311"	7.9mm	37	64
1312005		5	0.331"	8.4mm	44	74
1312007		7	0.358"	9.1mm	54	94
18 AWG (24/32) 0,75mm²						
1301802	OB	2	0.295"	7.5mm	31	58
1311803		3	0.311"	7.9mm	39	67
1311804		4	0.331"	8.4mm	43	73
1311805		5	0.358"	9.1mm	52	91
1311807		7	0.382"	9.7mm	68	117
17 AWG (32/32) 1,00mm²						
1301702	OB	2	0.311"	7.9mm	38	66
1311703		3	0.323"	8.2mm	44	72
1311704		4	0.346"	8.8mm	52	92
1311705		5	0.378"	9.6mm	60	110
1311707		7	0.409"	10.4mm	76	133
16 AWG (30/30) 1,50mm²						
1301602	OB	2	0.343"	8.7mm	44	89
1311603		3	0.354"	9.0mm	56	92
1311604		4	0.382"	9.7mm	67	116
1311605		5	0.417"	10.6mm	84	141
1311607		7	0.449"	11.4mm	131	189
14 AWG (50/30) 2,50mm²						
1301402	OB	2	0.394"	10.0mm	75	107
1311403		3	0.413"	10.5mm	99	141
1311404		4	0.453"	11.5mm	117	179
1311405		5	0.492"	12.5mm	134	214
1311407		7	0.551"	14.0mm	193	265
12 AWG (56/28) 4,00mm²						

Sizes continued on next page.

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

PART NUMBER		CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
1301202	OB	2	0.535"	13.6mm	91	203
1311203		3	0.539"	13.7mm	119	228
1311204		4	0.579"	14.7mm	159	248
1311205		5	0.602"	15.3mm	220	299
10 AWG (84/28) 6,00mm²						
1301002	OB	2	0.583"	14.8mm	117	235
1311003		3	0.630"	16.0mm	161	302
1311004		4	0.634"	16.1mm	213	337
1311005		5	0.681"	17.3mm	296	410
8 AWG (80/26) 10,0mm²						
1300802	OB	2	0.732"	18.6mm	178	335
1310803		3	0.764"	19.4mm	248	503
1310804		4	0.799"	20.3mm	374	512
1310805		5	0.855"	21.8mm	479	633
6 AWG (128/26) 16,0mm²						
1310604		4	0.890"	22.6mm	610	724
1310605		5	0.992"	25.2mm	706	889
4 AWG (200/26) 25,0mm²						
1310404		4	1.138"	28.9mm	879	1268
1310405		5	1.252"	31.8mm	1234	1523
2 AWG (280/26) 35,0mm²						
1310204		4	1.307"	33.2mm	1127	1432
1310205		5	1.476"	37.5mm	1352	1935
1 AWG (400/26) 50,0mm²						
1310104		4	1.528"	38.8mm	1571	2255
2/0 AWG (356/24) 70,0mm²						
1312104		4	1.720"	43.7mm	2081	2494
3/0 AWG (485/24) 95,0mm²						
1313104		4	1.984"	50.4mm	2723	3923
4/0 AWG (614/24) 120,0mm²						
1314104		4	2.236"	56.8mm	3505	5037
300 MCM (765/24) 150,0mm²						
1313004		4	2.449"	62.2mm	4226	5232
350 MCM (944/24) 185,0mm²						
1313504		4	2.669"	67.8mm	5200	6617