

SY-JB

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



SY-JB (OB) is an oil-resistant PVC power and control cable with a galvanized steel 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 galvanized steel braid offers mechanical protection from adverse operating conditions while providing partial shielding from electromagnetic interference (EMI).

► 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
- 65% Galvanized Steel 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 & 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					
1202002	OB	2	0.276"	7.0mm	7
1212003		3	0.295"	7.5mm	10
1212004		4	0.311"	7.9mm	13
1212005		5	0.362"	9.2mm	16
1212007		7	0.394"	10.0mm	23
1212010		10	0.457"	11.6mm	32
1212012		12	0.469"	11.9mm	39
1212014		14	0.472"	12.0mm	45
1212016		16	0.504"	12.8mm	52
1212021		21	0.598"	15.2mm	68
1212024		24	0.614"	15.6mm	77
1212027		27	0.672"	17.1mm	87
1212040		40	0.748"	19.0mm	129
18 AWG (24/32) 0,75mm2					
1201802	OB	2	0.323"	8.2mm	10
1211803		3	0.335"	8.5mm	15
1211804		4	0.362"	9.2mm	19
1211805		5	0.382"	9.7mm	24
1211806		6	0.425"	10.8mm	29
1211807		7	0.406"	10.3mm	34
1211809		9	0.484"	12.3mm	44
1211810		10	0.496"	12.6mm	48
1211812		12	0.508"	12.9mm	58
1211815		15	0.574"	14.6mm	72
1211818		18	0.614"	15.6mm	87
1211821		21	0.681"	17.3mm	101
1211825		25	0.708"	18.0mm	121
1211832		32	0.772"	19.6mm	154
1211861		61	0.999"	25.4mm	294
17 AWG (32/32) 1,00mm2					
1201702	OB	2	0.331"	8.4mm	13
1211703		3	0.346"	8.8mm	19
1211704		4	0.374"	9.5mm	26
1211705		5	0.398"	10.1mm	32
1211706		6	0.464"	11.8mm	39
1211707		7	0.433"	11.0mm	45
1211708		8	0.535"	13.6mm	52
1211710		10	0.551"	14.0mm	64
1211712		12	0.547"	13.9mm	77
1211718		18	0.701"	17.8mm	116
1211720		20	0.720"	18.3mm	129
1211725		25	0.819"	20.8mm	161
16 AWG (30/30) 1,50mm2					
1201602	OB	2	0.358"	9.1mm	19
1211603		3	0.386"	9.8mm	29
1211604		4	0.425"	10.8mm	39
1211605		5	0.441"	11.2mm	48
1211606		6	0.492"	12.5mm	58

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SY-JB Sizes Continued. (14 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
1211607	7	0.520"	13.2mm	68	191
1211608	8	0.575"	14.6mm	77	228
1211612	12	0.650"	16.5mm	116	298
1211614	14	0.693"	17.6mm	135	357
1211618	18	0.780"	19.8mm	174	398
1211625	25	0.878"	22.3mm	241	524
1211632	32	0.988"	25.1mm	309	681
14 AWG (50/30) 2,50mm²					
1201402	OB 2	0.425"	10.8mm	32	124
1211403	3	0.492"	12.5mm	48	143
1211404	4	0.528"	13.4mm	64	170
1211405	5	0.571"	14.5mm	80	202
1211407	7	0.610"	15.5mm	113	282
12 AWG (56/28) 4,00mm²					
1201202	OB 2	0.492"	12.5mm	52	221
1211203	3	0.508"	12.9mm	77	243
1211204	4	0.551"	14.0mm	103	287
1211205	5	0.610"	15.5mm	122	338
1211207	7	0.654"	16.6mm	180	429
10 AWG (84/28) 6,00mm²					
1211003	3	0.610"	15.5mm	116	302
1211004	4	0.709"	18.0mm	154	332
1211005	5	0.756"	19.2mm	193	397
1211007	7	0.756"	19.2mm	270	567
8 AWG (80/26) 10,0mm²					
1210804	4	0.787"	20.0mm	257	773
1210805	5	0.862"	21.9mm	322	907
1210807	7	0.953"	24.2mm	451	1040
6 AWG (128/26) 16,0mm²					
1210604	4	0.902"	22.9mm	412	912
1210605	5	1.004"	25.5mm	515	1167
1210607	7	1.102"	28.0mm	721	1452
4 AWG (200/26) 25,0mm²					
1210404	4	1.138"	28.9mm	644	1355
1210405	5	1.252"	31.8mm	805	1653
2 AWG (280/26) 35,0mm²					
1210204	4	1.457"	37.0mm	901	1723
1210205	5	1.417"	36.0mm	1127	2136
1 AWG (400/26) 50,0mm²					
1210104	4	1.504"	38.2mm	1287	2356
1210105	5	1.701"	43.2mm	1609	2849
2/0 AWG (356/24) 70,0mm²					
1212104	4	1.720"	43.7mm	1802	3225
1212105	5	2.039"	51.8mm	2253	3943
3/0 AWG (485/24) 95,0mm²					
1213104	4	1.984"	50.4mm	2446	4265
1213105	5	2.217"	56.3mm	3058	5412

