

## SY-JB Steel Shield & Colored Cores



**SY-JB** 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). 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
- 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	CU LBS/MFT	WT LBS/MFT
<b>20 AWG (16/32) 0,50mm2</b>				
1202002 OB	2	0.283" / 7.2mm	7	54
1212003	3	0.303" / 7.7mm	9	62
1212004	4	0.319" / 8.1mm	13	68
1212005	5	0.339" / 8.6mm	16	80
1212007	7	0.386" / 9.8mm	23	105
1212010	10	0.429" / 10.9mm	32	137
1212012	12	0.456" / 11.6mm	39	146
1212014	14	0.472" / 12.0mm	45	163
1212016	16	0.504" / 12.8mm	52	205
1212021	21	0.587" / 14.9mm	68	248
1212024	24	0.614" / 15.6mm	77	270
1212027	27	0.672" / 17.1mm	88	313
1212040	40	0.760" / 19.3mm	129	379
<b>18 AWG (24/32) 0,75mm2</b>				
1201802 OB	2	0.307" / 7.8mm	9	66
1211803	3	0.319" / 8.1mm	15	69
1211804	4	0.339" / 8.6mm	19	82
1211805	5	0.370" / 9.4mm	24	95
1211806	6	0.409" / 10.4mm	28	120
1211807	7	0.421" / 10.7mm	34	124
1211809	9	0.484" / 12.3mm	44	158
1211810	10	0.496" / 12.6mm	48	172
1211812	12	0.531" / 13.5mm	58	196
1211815	15	0.574" / 14.6mm	72	224
1211818	18	0.614" / 15.6mm	87	260
1211821	21	0.681" / 17.3mm	101	318
1211825	25	0.708" / 18.0mm	121	337
1211832	32	0.772" / 19.6mm	155	432
1211861	61	0.999" / 25.4mm	294	725
<b>17 AWG (32/32) 1,00mm2</b>				
1201702 OB	2	0.323" / 8.2mm	13	75
1211703	3	0.335" / 8.5mm	19	89
1211704	4	0.366" / 9.3mm	25	96
1211705	5	0.386" / 9.8mm	32	111
1211706	6	0.464" / 11.8mm	39	147
1211707	7	0.472" / 12.0mm	45	152
1211708	8	0.535" / 13.6mm	52	186
1211710	10	0.551" / 14.0mm	65	211
1211712	12	0.583" / 14.8mm	77	228

Sizes continued on next page.

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### SY-JB Sizes Continued. ( 17 AWG and Larger )

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
<b>17 AWG (32/32) 1,00mm<sup>2</sup> Cont.</b>				
1211718	18	0.701 <sup>33</sup> / 17.8mm	116	335
1211720	20	0.720 <sup>33</sup> / 18.3mm	129	357
1211725	25	0.819 <sup>33</sup> / 20.8mm	161	445
<b>16 AWG (30/30) 1,50mm<sup>2</sup></b>				
1201602 OB	2	0.358 <sup>33</sup> / 9.1mm	19	87
1211603	3	0.386 <sup>33</sup> / 9.8mm	29	100
1211604	4	0.425 <sup>33</sup> / 10.8mm	39	124
1211605	5	0.441 <sup>33</sup> / 11.2mm	48	138
1211606	6	0.492 <sup>33</sup> / 12.5mm	59	171
1211607	7	0.520 <sup>33</sup> / 13.2mm	68	191
1211608	8	0.575 <sup>33</sup> / 14.6mm	77	228
1211612	12	0.673 <sup>33</sup> / 17.1mm	116	298
1211614	14	0.693 <sup>33</sup> / 17.6mm	135	358
1211618	18	0.780 <sup>33</sup> / 19.8mm	174	398
1211625	25	0.878 <sup>33</sup> / 22.3mm	241	524
1211632	32	0.988 <sup>33</sup> / 25.1mm	309	681
<b>14 AWG (50/30) 2,50mm<sup>2</sup></b>				
1201402 OB	2	0.425 <sup>33</sup> / 10.8mm	32	124
1211403	3	0.492 <sup>33</sup> / 12.5mm	48	166
1211404	4	0.528 <sup>33</sup> / 13.4mm	64	195
1211405	5	0.571 <sup>33</sup> / 14.5mm	80	233
1211407	7	0.610 <sup>33</sup> / 15.5mm	113	282
<b>12 AWG (56/28) 4,00mm<sup>2</sup></b>				
1201202 OB	2	0.567 <sup>33</sup> / 14.7mm	52	221
1211203	3	0.598 <sup>33</sup> / 15.2mm	78	235
1211204	4	0.622 <sup>33</sup> / 15.8mm	103	287
1211205	5	0.669 <sup>33</sup> / 17.0mm	129	338
1211207	7	0.740 <sup>33</sup> / 18.8mm	180	429
<b>10 AWG (84/28) 6,00mm<sup>2</sup></b>				
1211003	3	0.736 <sup>33</sup> / 18.7mm	116	364
1211004	4	0.709 <sup>33</sup> / 18.0mm	154	383
1211005	5	0.756 <sup>33</sup> / 19.2mm	193	450
1211007	7	0.843 <sup>33</sup> / 21.4mm	270	567
<b>8 AWG (80/26) 10,0mm<sup>2</sup></b>				
1210804	4	0.921 <sup>33</sup> / 23.4mm	258	633
1210805	5	0.984 <sup>33</sup> / 25.0mm	322	714
1210807	7	1.157 <sup>33</sup> / 29.4mm	451	1040
<b>6 AWG (128/26) 16,0mm<sup>2</sup></b>				
1210604	4	1.051 <sup>33</sup> / 26.7mm	412	912
1210605	5	1.205 <sup>33</sup> / 30.6mm	515	1167
1210607	7	1.299 <sup>33</sup> / 33.0mm	721	1453
<b>4 AWG (200/26) 25,0mm<sup>2</sup></b>				
1210404	4	1.220 <sup>33</sup> / 31.0mm	644	1355
1210405	5	1.311 <sup>33</sup> / 33.3mm	805	1653
<b>2 AWG (280/26) 35,0mm<sup>2</sup></b>				
1210204	4	1.280 <sup>33</sup> / 32.5mm	901	1724
1210205	5	1.433 <sup>33</sup> / 36.4mm	1127	2136
<b>1 AWG (400/26) 50,0mm<sup>2</sup></b>				
1210104	4	1.516 <sup>33</sup> / 38.5mm	1288	2356
1210105	5	1.701 <sup>33</sup> / 43.2mm	1610	2849
<b>2/0 AWG (356/24) 70,0mm<sup>2</sup></b>				
1212104	4	1.843 <sup>33</sup> / 46.8mm	1803	3226
1212105	5	2.039 <sup>33</sup> / 51.8mm	2254	3944
<b>3/0 AWG (485/24) 95,0mm<sup>2</sup></b>				
1213104	4	2.028 <sup>33</sup> / 51.5mm	2447	4266
1213105	5	2.220 <sup>33</sup> / 56.4mm	3059	5413
<b>4/0 AWG (614/24) 120,0mm<sup>2</sup></b>				
1214104	4	2.217 <sup>33</sup> / 56.3mm	3091	5480

Additional sizes may be available.