

## SY-JZ Steel Shield & Numbered Cores



**SY-JZ** 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 - black & numbered
- Gray PVC inner jacket
- 65% Galvanized Steel Braid
- Transparent PVC outer jacket
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

### Technical:

- Working voltage: 300/500 volts
- 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) 0,50mm<sup>2</sup></b>				
1222002 OZ	2	0.283" / 7.2mm	7	54
1232003	3	0.303" / 7.7mm	9	62
1232004	4	0.319" / 8.1mm	13	68
1232005	5	0.339" / 8.6mm	16	80
1232007	7	0.386" / 9.8mm	23	105
1232010	10	0.429" / 10.9mm	32	137
1232012	12	0.456" / 11.6mm	39	146
1232014	14	0.472" / 12.0mm	45	163
1232018	18	0.531" / 13.5mm	58	228
1232021	21	0.587" / 14.9mm	68	248
1232025	25	0.626" / 15.9mm	80	272
1232030	30	0.646" / 16.4mm	97	294
1232035	35	0.689" / 17.5mm	109	334
1232040	40	0.760" / 19.3mm	129	379
1232052	52	0.815" / 20.7mm	161	463
1232061	61	0.909" / 23.1mm	197	565
1232080	80	1.011" / 25.7mm	258	704
<b>18 AWG (24/32) 0,75mm<sup>2</sup></b>				
1221802 OZ	2	0.307" / 7.8mm	9	60
1231803	3	0.319" / 8.1mm	15	69
1231804	4	0.339" / 8.6mm	19	82
1231805	5	0.370" / 9.4mm	24	95
1231807	7	0.421" / 10.7mm	34	124
1231809	9	0.484" / 12.3mm	44	158
1231810	10	0.496" / 12.6mm	48	172
1231812	12	0.531" / 13.5mm	58	196
1231815	15	0.574" / 14.6mm	72	224
1231818	18	0.614" / 15.6mm	87	260
1231821	21	0.681" / 17.3mm	101	318
1231825	25	0.708" / 18.0mm	121	337
1231834	34	0.795" / 20.2mm	164	445
1231841	41	0.850" / 21.6mm	199	497
1231850	50	0.944" / 24.0mm	241	620
1231861	61	0.999" / 25.4mm	294	724
<b>17 AWG (32/32) 1,00mm<sup>2</sup></b>				
1221702 OZ	2	0.323" / 8.2mm	13	75
1231703	3	0.335" / 8.5mm	19	89
1231704	4	0.366" / 9.3mm	25	96
1231705	5	0.386" / 9.8mm	32	111
1231707	7	0.472" / 12.0mm	45	152

Sizes continued on next page.

## SY-JZ Steel Shield & Numbered Cores



SY-JZ Sizes Continued. ( 17 AWG to 10 AWG )

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
<b>17 AWG (32/32) 1,00mm2 Cont.</b>				
1231712	12	0.583" / 14.8mm	77	228
1231714	14	0.638" / 16.2mm	90	282
1231718	18	0.701" / 17.8mm	116	335
1231720	20	0.720" / 18.3mm	129	357
1231725	25	0.819" / 20.8mm	161	445
1231734	34	0.870" / 22.1mm	219	567
1231736	36	0.906" / 23.0mm	232	575
1231741	41	0.965" / 24.5mm	264	666
1231750	50	1.000" / 25.4mm	322	746
1231756	56	1.024" / 26.0mm	361	822
1231761	61	1.071" / 27.2mm	393	876
1231765	65	1.118" / 28.4mm	419	1033
1231780	80	1.217" / 30.9mm	527	1174
1231700	100	1.386" / 35.2mm	644	1308
<b>16 AWG (30/30) 1,50mm2</b>				
1221602 OZ	2	0.358" / 9.1mm	19	87
1231603	3	0.386" / 9.8mm	29	100
1231604	4	0.425" / 10.8mm	39	124
1231605	5	0.441" / 11.2mm	48	138
1231607	7	0.520" / 13.2mm	68	191
1231608	8	0.575" / 14.6mm	77	228
1231609	9	0.598" / 15.2mm	87	233
1231610	10	0.650" / 16.5mm	97	280
1231612	12	0.673" / 17.1mm	116	298
1231614	14	0.693" / 17.6mm	135	358
1231618	18	0.780" / 19.8mm	174	398
1231625	25	0.878" / 22.3mm	241	524
1231632	32	0.988" / 25.1mm	309	681
1231634	34	1.024" / 26.0mm	329	754
1231642	42	1.142" / 29.0mm	406	940
1231650	50	1.189" / 30.2mm	483	1062
1231661	61	1.252" / 31.8mm	589	1214
1231680	80	1.433" / 36.4mm	773	1553
1231600	100	1.630" / 41.4mm	966	1945
<b>14 AWG (50/30) 2,50mm2</b>				
1221402 OZ	2	0.425" / 10.8mm	32	124
1231403	3	0.492" / 12.5mm	48	166
1231404	4	0.528" / 13.4mm	64	195
1231405	5	0.571" / 14.5mm	80	233
1231407	7	0.610" / 15.5mm	113	282
1231412	12	0.768" / 19.5mm	193	443
1231414	14	0.819" / 20.8mm	225	503
1231418	18	0.882" / 22.4mm	290	599
1231425	25	1.165" / 29.6mm	402	978
1231430	30	1.181" / 30.0mm	483	1131
1231434	34	1.303" / 33.1mm	589	1254
1231450	50	1.551" / 39.4mm	773	1476
1231461	61	1.634" / 41.5mm	966	2012
<b>12 AWG (56/28) 4,00mm2</b>				
1231203	3	0.567" / 14.4mm	78	235
1231204	4	0.622" / 15.8mm	103	287
1231205	5	0.669" / 17.0mm	129	338
1231207	7	0.740" / 18.8mm	180	429
<b>10 AWG (84/28) 6,00mm2</b>				
1231004	4	0.709" / 18.0mm	154	383
1231005	5	0.756" / 19.2mm	193	450
1231007	7	0.843" / 21.4mm	270	567

Sizes continued on next page.

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SY-JZ Sizes Continued. ( 8 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
<b>8 AWG (80/26) 10,0mm<sup>2</sup></b>				
1230804	4	0.921" / 23.4mm	258	633
1230805	5	0.984" / 25.0mm	322	714
1230807	7	1.157" / 29.4mm	451	1040
<b>6 AWG (128/26) 16,0mm<sup>2</sup></b>				
1230604	4	1.051" / 26.7mm	412	912
1230605	5	1.205" / 30.6mm	515	1167
1230607	7	1.299" / 33.0mm	721	1453
<b>4 AWG (200/26) 25,0mm<sup>2</sup></b>				
1230404	4	1.220" / 31.0mm	644	1355
1230405	5	1.311" / 33.3mm	805	1653
<b>2 AWG (280/26) 35,0mm<sup>2</sup></b>				
1230204	4	1.280" / 32.5mm	901	1724
1230205	5	1.433" / 36.4mm	1127	2136
<b>1 AWG (400/26) 50,0mm<sup>2</sup></b>				
1230104	4	1.516" / 38.5mm	1288	2356
1230105	5	1.701" / 43.2mm	1610	2849
<b>2/0 AWG (356/24) 70,0mm<sup>2</sup></b>				
1232104	4	1.843" / 46.8mm	1803	3226
1232105	5	2.039" / 51.8mm	2254	3944
<b>3/0 AWG (485/24) 95,0mm<sup>2</sup></b>				
1233104	4	2.028" / 51.5mm	2447	4266
1233105	5	2.220" / 56.4mm	3059	5413
<b>4/0 AWG (614/24) 120,0mm<sup>2</sup></b>				
1234104	4	2.217" / 56.3mm	3091	5480
<b>300 MCM (765/24) 150,0mm<sup>2</sup></b>				
1233004	4	2.500" / 63.5mm	3863	6687

\* Additional sizes may be available.