



### Voltage

0.6KV----35KV

### Construction

Sino-cables YJLV22 type is constructed with AA-8000 series aluminum alloy, compact stranded conductor. The cable consists of two, three or four insulated phase-identified conductors plus an insulated grounding conductor inside galvanized steel tape armor. The entire assembly is covered with a PVC jacket for added durability and protection.

### Standard

GB/T 12706; GB/T 31840; IEC60502, or other standards required by customers.

### Features

1. the operating temperature:  $-40^{\circ}\text{C}$  ----  $90^{\circ}\text{C}$  , Conductor insulation is free of harmful heavy metals in compliance with RoHS.
2. good bendability, high elongation and flexibility, low spring-back, excellent properties of creep resistance, anti-corrosion and anti-oxidant, stable connection, sunlight resistant.
3. fire resistant as NH, fire retardant as ZR, low smoke halogen free as WDZ, or other requirements by customers.
4. Bending radius is 12----15 times of the outer diameter of the cable and lightweight, which makes installation easier.
5. On reaching the same conductivity, the weight of YJLV22 type cable is about 40% less that of YJV22(copper cable), while the cost is around 30% less than that of YJV22(copper cable) .

### Applications

1. Sino-cables YJLV22 type can be applied to Branch, feeder and service power distribution under high ambient temperature in commercial, industrial, institutional, and multi-residential buildings.
2. YJLV22 is also suitable for direct burial applications, installation in concrete and where exposed to cinder fills, strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acids.
3. designed for both above-ground and underground applications in dry or wet locations; Power, lighting, control, and signal circuits; Fished or embedded in plaster; Concealed or exposed installations; as aerial cable on a messenger; Installation in cable tray and approved raceways.



[www.sino-cables.com](http://www.sino-cables.com)

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## 0.6/1KV YJLHV22 Physical Index

Nominal C.S.A. of conductor (mm <sup>2</sup> )	Approx. overall diameter of cable (mm)							Approx. weight of cable (KG/KM)						
	2 core	3 core	4 core	5 core	3+1 core	3+2 core	4+1 core	2 core	3 core	4 core	5 core	3+1 core	3+2 core	4+1 core
10	18.5	19.2	20.8	22.2	20.3	21.5	21.9	356	408	471	545	453	506	525
16	22.0	21.8	23.4	25.2	22.8	24.1	24.6	477	517	604	710	579	650	681
25	23.8	25.0	27.1	29.3	26.2	27.7	28.5	569	687	808	956	780	865	913
35	26.0	27.4	29.0	32.5	28.2	29.6	31.1	682	839	1002	1186	921	1050	1100
50	29.2	30.9	34.0	37.2	32.2	34.1	35.4	886	1011	1268	1806	1137	1279	1370
70	33.0	35.2	38.8	42.4	36.8	38.9	40.4	1100	1385	1901	2375	1723	1852	2090
95	37.0	39.4	43.6	47.4	41.5	43.1	45.7	1523	1983	2302	2787	2099	2430	2572
120	40.8	43.5	48.2	52.7	46.1	49.0	50.8	1872	2317	2886	3433	2508	2899	3097
150	45.1	48.3	53.5	58.4	49.9	52.5	55.6	2341	2813	3478	4059	2986	3459	3659
185	49.3	52.6	58.5	63.9	54.6	57.3	60.8	2715	3307	4010	4901	3658	4152	4682
240	55.4	59.0	65.4	71.6	61.1	64.2	68.2	3345	4105	4935	5987	4381	5057	5602
300	60.6	63.2	71.2	77.8	66.9	70.7	74.5	3993	4853	6057	7395	5417	6060	6779
400	67.9	72.3	80.1	87.7	74.6	79.1	83.6	4895	6021	7937	9427	6835	7783	8892
500	75.1	79.8	88.5	97.2	82.5	87.4	92.6	5863	7529	9735	11517	9028	9540	10750
630	83.1	88.9	98.2	108.4	90.1	94.2	101.5	7876	9879	12019	14005	10010	11451	12335

## 0.6/1KV YJLHV22 Ampacity

Nominal C.S.A. of conductor (mm <sup>2</sup> )	Dia. of conductor (mm)	Insulation thickness (mm)	D.C. Resistance at 20°C (Ω/km)	Resistance of insulation (M Ω/km)	Current rating (A)	
					In the air	Direct in soil
10	3.8	0.7	≅ 3.080	≅ 5.23×10 <sup>4</sup>	53	65
16	4.8	0.7	≅ 1.910	≅ 4.31×10 <sup>4</sup>	67	85
25	6.0	0.9	≅ 1.200	≅ 4.44×10 <sup>4</sup>	90	110
35	7.0	0.9	≅ 0.868	≅ 3.79×10 <sup>4</sup>	110	130
50	8.4	1.0	≅ 0.641	≅ 3.55×10 <sup>4</sup>	131	155
70	10.0	1.1	≅ 0.443	≅ 3.35×10 <sup>4</sup>	173	190
95	11.6	1.1	≅ 0.320	≅ 2.90×10 <sup>4</sup>	210	229
120	13.0	1.2	≅ 0.253	≅ 2.82×10 <sup>4</sup>	247	259
150	14.6	1.4	≅ 0.206	≅ 2.94×10 <sup>4</sup>	284	294
185	16.2	1.6	≅ 0.164	≅ 3.03×10 <sup>4</sup>	326	334
240	18.4	1.7	≅ 0.125	≅ 2.83×10 <sup>4</sup>	383	389
300	20.6	1.8	≅ 0.100	≅ 2.63×10 <sup>4</sup>	441	439
400	23.8	2.0	≅ 0.0778	≅ 2.59×10 <sup>4</sup>	520	504
500	26.5	2.2	≅ 0.0605	≅ 2.56×10 <sup>4</sup>	599	579
630	30.0	2.4	≅ 0.0469	≅ 2.49×10 <sup>4</sup>	683	673

In the air: 40°C Direct in soil: 25°C, the coefficient of Soil thermal resistance 1.2Km/w

