

Aluminum stranded overhead cable LJ/LGJ/LGJF

 **SHENXING CABLE GROUP**



APPLICATION



Remote
transportation



Special terrain



High Voltage



Infrastructure



Higher load capacity

导体



- ✓ Steel core + AL core
- ✓ 99.99% Aluminum
- ✓ High strength
- ✓ Small sag



- ✓ 99.99% Aluminum
- ✓ Low cost
- ✓ Light weight
- ✓ Easy to construct



Safe & reliable



Light weight



Corrosion
resistance



Cost savings



Fire retardant



Easy installation



LJ
Aluminum
stranded wire

Light, fire retardant,
low cost



LGJ
ACSR

Improve tensile
strength

LGJF
Anti-corrosion
ACSR

Add anti-corrosion
coating to adapt to
harsh environment

Aluminum stranded overhead cable LJ/LGJ/LGJF

 **SHENXING CABLE GROUP**



LJ Aluminum stranded wire

Accept customization

Nominal area mm ²	Quantity/Diameter mm	Cable outer diameter mm	Resistance ≤Ω/km	Breaking force N	weight kg/km
16	7/1.70	5.1	1.802	2340	43.5
25	7/2.15	6.5	1.127	4355	69.6
35	7/2.50	7.5	0.8332	5760	94.1
50	7/3.00	9.0	0.5786	7930	135.5
70	7/3.60	10.8	0.4018	10950	195.1
95	7/4.16	12.5	0.3009	14450	260.5
120	19/2.85	14.3	0.2373	19420	333.5
150	19/3.15	15.8	0.1943	23310	407.4
185	19/3.50	17.5	0.1574	28440	503
210	19/3.75	18.8	0.1371	32260	577.4
240	19/4.00	20.0	0.1205	36260	656.9
300	37/3.20	22.4	0.09689	46850	820.4
400	37/3.70	25.9	0.07247	61150	1097
500	37/4.16	29.1	0.05733	76370	1387
630	61/3.63	32.7	0.04577	91940	1744
800	61/4.10	36.9	0.03588	115900	2225

LGJ Steel core aluminum stranded wire

Nominal area mm ²		Structure, number /diameter mm		Cable outer diameter mm	Resistance ≤Ω/km	Breaking force N
AL	Steel	AL	Steel			
10	2	6/1.50	1/1.50	4.50	2.706	4120
16	3	6/1.85	1/1.85	5.55	1.779	6130
25	4	6/2.32	1/2.32	6.96	1.131	9290
35	6	6/2.72	1/2.72	8.16	0.823	12630
50	8	6/3.20	1/3.20	9.60	0.5946	16870
50	30	12/2.32	7/2.32	11.60	0.5692	42620
70	10	6/3.80	1/3.80	11.40	0.4217	23390
70	40	12/2.72	7/2.72	13.60	0.4141	58300
95	15	26/2.15	7/1.67	13.61	0.3058	35000
95	20	7/4.16	7/1.85	13.87	0.3019	37200
95	55	12/3.20	7/3.20	16.00	0.2992	78110
120	7	18/2.90	1/2.90	14.50	0.2422	27570
120	20	26/2.38	7/1.85	15.07	0.2496	41000
120	25	7/4.72	7/2.10	15.74	0.2345	47880
120	70	12/3.60	7/3.60	18.00	0.2364	98370

Aluminum stranded overhead cable LJ/LGJ/LGJF

 **SHENXING CABLE GROUP**



LGJ Steel core aluminum stranded wire

Accept customization

Nominal area (mm)		Structure, number /diameter (mm)		Cable outer diameter mm	Resistance ≤Ω/km	Breaking force N	weight kg/km
AL	Steel	AL	Steel				
150	8	18/3.20	1/3.20	16.00	0.1989	32860	461
150	20	24/2.78	7/1.85	16.67	0.198	46630	549
150	25	26/2.70	7/2.10	17.10	0.1939	54110	601
150	35	30/2.50	7/2.50	17.50	0.1962	65020	676
185	10	18/3.60	1/3.60	18.00	0.1572	40880	584
185	25	24/3.15	7/2.10	18.90	0.1542	59420	706
185	30	26/2.98	7/2.32	18.88	0.1592	64320	733
185	45	20/2.80	7/2.80	19.60	0.1564	80190	848
210	10	18/3.80	1/3.80	19.00	0.1411	45140	651
210	25	24/3.33	7/2.22	19.98	0.138	65990	789
210	35	26/3.22	7/2.50	20.38	0.1363	74250	854
210	50	30/2.98	7/2.98	20.86	0.1381	90830	961
240	30	24/3.60	7/2.40	21.60	0.1181	75620	922
240	40	26/3.42	7/2.66	21.66	0.1209	83370	964
240	55	30/3.20	7/3.20	22.40	0.1198	102100	1108
300	15	42/3.00	7/1.67	23.01	0.09724	68060	940
300	20	45/2.93	7/1.95	23.43	0.0952	75680	1002
300	25	48/2.85	7/2.22	23.76	0.09433	83410	1058
300	40	24/3.99	7/2.66	23.94	0.09614	92220	1133
300	50	26/3.83	7/2.98	24.26	0.09636	103400	1210
300	70	30/3.60	7/3.60	25.20	0.09463	128000	1402
400	20	42/3.51	7/1.95	26.91	0.07104	88850	1286
400	25	45/3.33	7/2.22	26.64	0.0737	95940	1295
400	35	48/3.22	7/2.50	26.82	0.07389	103900	1349
400	50	54/3.07	7/3.07	27.63	0.07232	123400	1511
400	65	26/4.42	7/3.44	28.00	0.07236	135200	1611
400	95	30/4.16	19/2.50	29.14	0.07087	171300	1860
500	35	45/3.75	7/2.50	30.00	0.05812	119500	1642
500	45	48/3.60	7/2.80	30.00	0.05912	128100	1688
500	65	54/3.44	7/3.44	30.96	0.0576	154000	1897
630	45	45/4.20	7/2.80	33.60	0.04633	148700	2060
630	55	48/4.12	7/3.20	34.32	0.04514	164400	2209
630	80	54/3.87	19/2.32	34.82	0.04551	192900	2388
800	55	45/4.80	7/3.20	38.40	0.03547	191500	2690
800	70	48/4.63	7/3.60	38.58	0.03574	207000	2791
800	100	54/4.33	19/2.60	38.98	0.03635	241100	2991

The weight of LGJF anti-corrosion steel core aluminum stranded wire is 1.05 times that of the corresponding model of LGJ steel core aluminum stranded wire (above table).