

Specification	Steel rate %	Nominal cross-sectional area mm ²			No. of wire n		Diameter of Single wire		Diameter mm		Calculated weight kg/km	Rated tensile force kN (JL/G1A)	D.C.resistance of Conductor at 20°C Ω/km
		Al	St	Total	Al	St	Al	St	Steel core	Conductor			
10/2	16.7	10.6	1.78	12.4	6	1	1.50	1.50	1.50	4.50	42.8	4.14	2.7062
16/3	16.7	16.1	2.69	18.8	6	1	1.85	1.85	1.85	5.55	65.2	6.13	1.7791
25/4	16.7	24.9	4.15	29.1	6	1	2.30	2.30	2.30	2.30	100.7	9.10	1.1510
35/6	16.7	34.9	5.81	40.7	6	1	2.72	2.72	2.72	8.16	140.9	12.55	0.8230
50/8	16.7	48.3	8.64	56.30	6	1	3.20	3.20	3.20	9.60	194.8	16.81	0.5946
50/30	58.3	50.7	29.6	80.3	12	7	2.32	2.32	6.96	11.6	371.3	42.61	0.5693
70/10	16.7	68.0	11.3	79.3	6	1	3.80	3.80	3.80	11.4	275.0	23.36	0.4217
70/40	58.3	69.7	40.7	110	12	7	2.72	2.72	8.16	13.6	510.4	58.22	0.4141
95/15	16.2	94.4	15.3	110	26	7	2.15	1.67	5.01	13.6	380.5	34.93	0.3059
95/20	19.8	95.1	18.8	114	7	7	4.16	1.85	5.55	13.9	408.5	37.24	0.3020
95/55	58.3	96.5	56.3	153	12	7	3.20	3.20	9.60	16.0	706.4	77.85	0.2992
120/7	5.6	119	6.6	125	18	1	2.90	2.90	2.90	14.5	378.9	27.74	0.2422
120/20	16.3	116	18.8	134	26	7	2.38	1.85	5.55	15.1	466.4	42.26	0.2496
120/25	19.8	122	24.2	147	7	7	4.72	2.10	6.30	15.7	526.0	47.96	0.2346
120/70	58.3	122	71.3	193	12	7	3.60	3.60	10.8	18.0	894.0	97.92	0.2364
150/8	5.6	145	8.04	153	18	1	3.20	3.20	3.20	16.0	461.3	32.73	0.1990
150/20	12.9	146	18.8	164	24	7	2.78	1.85	5.55	16.7	549.0	46.78	0.1981
150/25	16.3	149	24.2	173	26	7	2.70	2.10	6.30	17.1	600.5	53.67	0.1940
150/35	23.3	147	34.4	182	30	7	2.50	2.50	7.50	17.5	675.4	64.94	0.1962
185/10	5.6	183	10.2	193	18	1	3.60	3.60	3.60	18.0	583.8	40.51	0.1572
185/25	13.0	187	24.2	211	24	7	3.15	2.10	6.30	18.9	705.5	59.23	0.1543
185/30	16.3	181	29.6	211	26	7	2.98	2.32	6.96	18.9	732.0	64.56	0.1592
185/45	23.1	185	43.1	228	30	7	2.80	2.80	8.40	19.6	847.2	80.54	0.1564
210/10	5.6	204	11.3	215	18	1	3.80	3.80	3.80	19.0	650.5	45.14	0.1411
210/25	13.0	209	27.1	236	24	7	3.33	2.22	6.66	20.0	788.4	66.19	0.1380
210/35	16.2	212	34.4	246	26	7	3.22	2.50	7.50	20.4	853.1	74.11	0.1364

Specification	Steel rate %	Nominal cross-sectional area mm ²			No. of wire n		Diameter of Single wire		Diameter mm		Calculated weight kg/km	Rated tensile force kN (JL/G1A)	20°C DC resistance Ω/km
		Al	St	Total	Al	St	Al	St	Steel core	Conductor			
210/50	23.3	209	27.1	236	30	7	2.98	2.98	8.94	20.9	959.7	91.23	0.1381
240/30	13.0	244	31.7	276	24	7	3.60	2.40	7.20	21.6	921.5	75.19	0.1181
240/40	16.3	239	38.9	278	26	7	3.42	2.66	7.98	22.7	963.5	83.76	0.1209
240/55	23.3	241	56.3	298	30	7	3.20	3.20	9.60	22.4	1106.6	101.74	0.1198
300/15	5.2	297	15.3	312	42	7	3.00	1.67	5.01	23.0	940.2	68.41	0.0973
300/20	6.2	303	18.8	322	45	7	2.93	1.95	5.85	23.4	985.4	73.60	0.0952
300/25	8.8	306	27.1	333	48	7	2.85	2.22	6.66	23.8	1057.9	83.76	0.0944
300/40	13.0	300	38.9	339	24	7	3.99	2.66	7.98	23.9	1132.0	92.36	0.0961
300/50	16.3	300	48.8	348	26	7	3.83	2.96	8.94	24.3	1208.6	103.6	0.0964
300/70	23.3	305	71.3	377	30	7	3.60	3.60	10.8	25.2	1400.6	127.23	0.0946
400/20	5.1	406	20.9	427	42	7	3.51	1.95	5.85	26.9	1286.3	89.48	0.0711
400/25	6.9	392	27.1	419	45	7	3.33	2.22	6.66	26.6	1294.7	96.37	0.0737
400/35	8.8	391	34.4	425	48	7	3.22	2.50	7.50	26.8	1348.6	103.7	0.0739
400/65	16.3	399	65.1	464	26	7	4.42	3.44	10.3	28.0	1610.0	135.4	0.0724
400/95	22.9	408	93.3	501	30	19	4.16	2.50	12.5	29.1	1857.9	171.6	0.0709
500/45	8.8	489	43.1	532	48	7	3.60	2.80	8.40	30.0	1685.5	127.3	0.0591
630/55	8.8	640	56.3	696	48	7	4.12	3.20	9.60	34.3	2208.3	164.3	0.0452
800/55	6.9	814	56.3	871	45	7	4.80	3.20	9.60	38.4	2690.0	192.2	0.0355
800/70	8.8	808	71.3	879	48	7	4.63	3.60	10.8	38.6	2790.1	207.7	0.0358
900/40	4.3	900	38.9	939	72	7	3.99	2.66	7.98	39.9	2793.8	179.0	0.321
900/75	8.3	898	74.9	973	84	7	3.69	3.69	11.1	40.6	3071.3	214.8	0.0322
1000/45	4.3	1002	43.1	1045	72	7	4.21	2.80	8.41	42.1	3108.8	199.0	0.0289
1120/50	4.2	1120	47.3	1167	72	19	4.45	1.78	8.90	44.5	3467.7	222.8	0.0258
1120/90	8.1	1120	91.0	1211	84	19	4.12	2.47	12.4	45.3	3813.4	268.8	0.0258
1250/70	5.6	1252	70.1	1322	76	7	4.58	3.57	10.7	47.4	4011.1	263.5	0.0231
1250/100	8.1	1248	102	1350	84	19	4.35	2.61	13.1	47.9	4252.3	299.8	0.0232

Note: The properties in the table are also suitable for anticorrosive type steel core aluminum stranded wire.

Nominal Cross-sectional area mm ²	Construction No./Diameter mm	Calculated cross-section mm ²	Overall Diameter mm	20°C DC resistance \rightrightarrows Ω/km	Calculated tensile force kN	Calculated weight kg/km	Delivery length \leftarrow m
10	7/1.35	10	4.05	2.8578	1.95	27.4	4000
16	7/1.71	16	5.12	1.7812	3.05	44.0	4000
25	7/2.13	25	6.40	1.1480	4.49	68.3	3000
35	7/2.50	34.36	7.50	0.8333	6.01	94.1	2000
50	7/3.00	49.48	9.00	0.5787	8.41	135.5	1500
70	7/3.60	71.25	10.8	0.4019	11.40	195.1	1250
95	7/4.16	95.14	12.5	0.3010	15.22	260.5	1000
120	19/2.85	121.21	14.3	0.2374	20.61	333.5	1500
150	19/3.15	148.07	15.8	0.1943	24.43	407.4	1250
185	19/3.50	182.80	17.5	0.1574	30.16	503.0	1000
210	19/3.75	209.85	18.8	0.1371	33.58	577.4	1000
240	19/4.00	238.76	20.00	0.1205	38.20	657.0	1000
300	37/3.20	297.57	22.40	0.0969	49.10	820.7	1000
400	37/3.71	400	26.0	0.0721	64.00	1103.2	1000
500	37/4.16	502.90	29.1	0.0573	80.46	1387.1	1000
630	61/3.63	630	32.6	0.0458	101.00	1743.8	800
800	61/4.09	800	36.8	0.0360	120.20	2213.7	800

JLHA1 Aluminium alloy stranded conductor

Nominal Cross-sectional area mm ²	Construction No./Diameter mm	Calculated cross-section mm ²	Overall Diameter mm	20°C DC resistance \rightrightarrows Ω/km	Calculated tensile force kN	Calculated weight kg/km	Delivery length \leftarrow m
16	7/1.71	16.1	5.13	2.0695	5.22	44.0	4000
25	7/2.13	24.9	6.39	1.3339	8.11	68.3	3000
35	7/2.52	34.9	7.56	0.9529	11.35	95.6	2000
50	7/3.02	50.1	9.06	0.6635	16.30	137.3	1500
70	7/3.57	70.1	10.7	0.4748	22.07	191.9	1250
95	7/4.16	95.1	12.5	0.3497	29.97	260.5	1000
120	19/2.78	115	13.9	0.2899	37.48	317.3	1500
150	19/3.17	150	15.9	0.2229	48.74	412.6	1250
210	19/3.75	210	18.8	0.1593	66.10	577.4	1000
240	19/4.01	240	20.1	0.1393	75.59	660.3	1000
300	37/3.21	299	22.5	0.1119	97.32	825.9	1000
400	37/3.71	400	26.0	0.0838	125.99	1103.2	1000
500	37/4.15	500	29.1	0.0670	157.65	1380.4	1000
630	61/3.63	631	32.7	0.0532	198.86	1743.8	800
800	61/4.09	801	36.8	0.0419	252.45	2213.7	800
1000	61/4.57	1001	41.1	0.0335	315.18	2763.8	800

JLHA2 Aluminium alloy standard conductor

Nominal Cross-sectional area mm ²	Construction No./Diameter mm	Calculated cross-section mm ²	Overall Diameter mm	20°C DC resistance $\rhd\Omega/\text{km}$	Calculated tensile force kN	Calculated weight kg/km	Delivery length \leftarrow m
16	7/1.71	16.1	5.13	2.0500	4.74	44.0	4000
25	7/2.13	24.9	6.39	1.3213	7.36	68.3	3000
35	7/2.52	34.9	7.56	0.9439	10.30	95.6	2000
50	7/3.02	50.1	9.06	0.6573	14.79	137.3	1500
70	7/3.57	70.1	10.7	0.4703	20.67	191.9	1250
95	7/4.16	95.1	12.5	0.3464	28.07	260.5	1000
120	19/2.84	115	14.2	0.2871	34.02	317.3	1500
150	19/3.17	150	15.9	0.2208	44.24	412.6	1250
210	19/3.75	210	18.8	0.1578	61.91	577.4	1000
240	19/4.01	240	20.1	0.1380	70.79	660.3	1000
300	37/3.21	299	22.5	0.1109	88.33	825.9	1000
400	37/3.71	400	26.0	0.0830	118	1103.2	1000
500	37/4.15	500	29.1	0.0663	147.64	1380.4	1000
630	61/3.63	631	32.7	0.0527	186.23	1743.8	800
800	61/4.09	801	36.8	0.0415	236.4	2213.7	800
1000	61/4.57	1001	41.1	0.0332	295.2	2763.8	800

JLHA3 Aluminium alloy stranded conductor

Nominal Cross-sectional area mm ²	Construction No./Diameter mm	Calculated cross-section mm ²	Overall Diameter mm	20°C DC resistance $\rhd\Omega/\text{km}$	Calculated tensile force kN	Calculated weight kg/km	Delivery length \leftarrow m
275	37/3.08	276	21.56	0.1091	66.16	760.3	1000
280	37/3.10	279	21.70	0.1077	67.02	770.2	1000
335	37/3.40	336	23.80	0.0895	80.62	926.5	1000
340	37/3.42	340	23.94	0.0885	81.57	937.5	1000
425	37/3.83	426	26.81	0.0705	102.3	1175.7	1000
450	37/3.94	451	27.58	0.0667	108.3	1244.2	1000
530	61/3.33	531	29.97	0.0567	127.5	1467.4	800
675	61/3.75	674	33.75	0.0447	161.7	1861.0	800