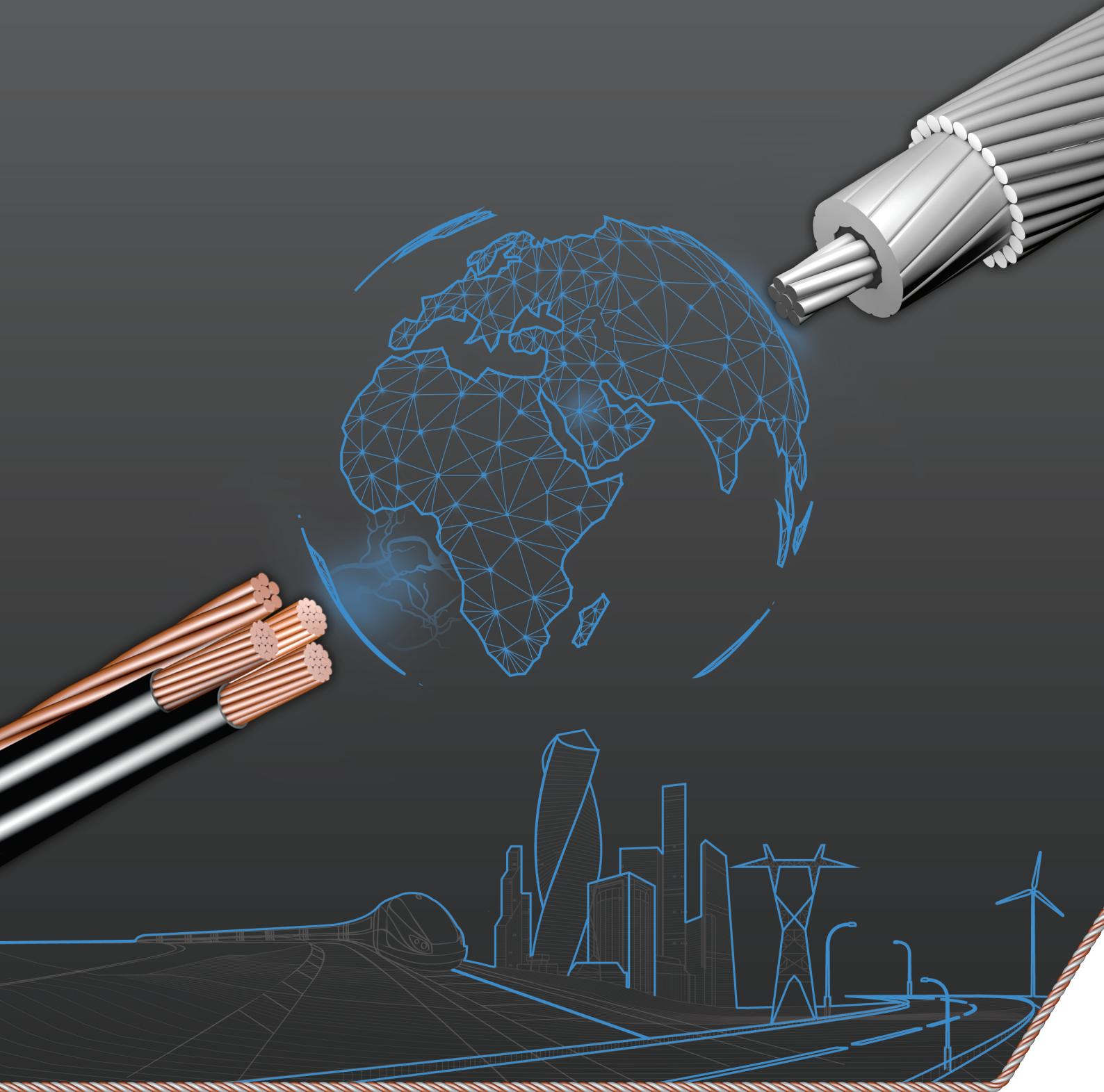


OVERHEAD CONDUCTORS



شركة مجموعة كابلات الرياض
Riyadh Cables Group Company

INTRODUCTION

RIYADH CABLES GROUP COMPANY (RCGC), is a premier manufacturer of quality Wires, Conductors and Cables with a wide range of products.

Our commitment to quality, professional outlook and dedicated service put us as one of the leading names in the Cables and Allied Manufacturing Industry in the Middle East and do enjoy a prominent slot in the “Top 100 companies in the Kingdom”.

RCGC, located in the Second Industrial City - Riyadh with a paid up capital of S.R. 868 Million, backed by a dedicated work force of over 1850 consisting of high calibre multinational professionals and with advanced production facilities sprawling over a complex admeasuring 700 000 m² is all poised for further expansion.

RIYADH CABLES GROUP COMPANY with its steady growth, innovative approach and expertise are committed to maintain and enhance its reputation in the years ahead. We believe that our success to date will provide a springboard for further achievements in the future both in the domestic and export arena alike.

RCGC's well defined Quality Assurance System adds to the infrastructure for the most reliable products and ensure its conformity strictly to National/International standards and specific requirements of customers to reach all the corners of Domestic and Export Market.

Quality is our prime concern.

OUR RANGE OF PRODUCTION :

- Wire and Cable Wiring 450/750 Volts and 500 Volts.
- Special Electrical Wires.
- Low Voltage Cables 1 KV Copper and Aluminium, PVC and XLPE insulated, armoured, non-armoured and lead sheathed.
- Medium and High Voltage Cables up to 240 KV Aluminium and Copper, XLPE insulated, armoured, non-armoured and lead sheathed.
- Control Cables XLPE and PVC insulated, shielded and non-shielded, armoured, non-armoured and lead sheathed.
- Overhead Line Conductors and Aerial Cables: Copper, Aluminium, Aluminium Alloy, Plain. and AW, Steel Wire Reinforced for all voltages up to 500 KV (Bare Conductors).
- Telephone Cables.
- Copper Rods and PVC Granules for Cable insulation and sheath.

We are proud to Present our Technical Data for Overhead Line Conductors, which will serve to solve the technical queries about OHL Conductors.

NOTES FOR ELECTRICAL STRANDED CONDUCTORS AS PER IEC 61089

IEC 61089 Standard specifies the electrical and mechanical characteristics of round wire concentric lay overhead electrical stranded conductors made of combinations of any of the following metal wires:

- a) hard-drawn aluminium as per IEC 889 designated A1^{*};
- b) aluminium alloy type B as per IEC 104 designated A2^{*};
- c) aluminium alloy type A as per IEC 104 designated A3^{*} (and when applicable to the following cores , as per IEC 888);
- d) regular strength steel , designated S1A or S1B, where A and B are zinc coating classes, corresponding respectively to classes 1 and 2;
- e) high strength steel, designated S2A or S2B;
- f) extra high strength steel, designated S3A

The conductors designations included in this standard are:

A1, A2, A3,
A1/S1A, A1/S1B, A1/S2A, A1/S2B, A1/S3A, A2/S1A,
A2/S1B, A2/S3A, A3/S1A,
A3/S1B, A3/S3A, A1/A2, A1/A3.

★The resistivity of these metals is as follows (in increasing order):

A1: 28,264 nΩm (corresponding to 61% IACS),
A2: 32,530 nΩm (corresponding to 53% IACS),
A3: 32,840 nΩm (corresponding to 52,5% IACS).

Testing shall be as per IEC 61089

CU(HD) / PVC

Hard Drawn Stranded Copper Conductors
TYPE 8 PVC INSULATION

DIN 48201
BS 6485



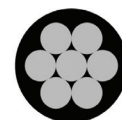
PVC Insulated

Riyadh Cables CODE NUMBER	NOMINAL AREA (MM ²)	CALCULATED AREA (MM ²)	WIRES		APPROX OVERALL DIAMETER (MM)	NOMINAL BREAKING LOAD (KN)	NOM. DC RESISTANCE AT 20 Deg. C. (OHM/KM)	APPROX. WEIGHT (KG/KM)	APPROX. OVERALL DIAMETER (MM)	APPROX TOTAL WEIGHT (KG/KM)	PACKING LENGTH (M+/-5%)
			No.	DIA. (MM)							
0921110108	10	10.02	7	1.35	4.1	4.02	1.8055	90	6.1	115	2000
0921110109	16	15.89	7	1.70	5.1	6.37	1.1386	143	7.1	174	2000
0921110110	25	24.25	7	2.10	6.3	9.72	0.7461	218	8.3	256	2000
0921110111	35	34.36	7	2.50	7.5	13.77	0.5265	310	9.5	355	1000
0921110112	50	49.48	7	3.00	9.0	19.84	0.3656	446	11.0	501	1000
0921110112B	50	48.35	19	1.80	9.0	19.38	0.376	437	11.0	490	1000
0921110113	70	65.81	19	2.10	10.5	26.38	0.2762	596	12.5	658	1000
0921110114	95	93.27	19	2.50	12.5	37.39	0.1949	845	14.5	920	1000
0921110115	120	116.99	19	2.80	14.0	46.90	0.1554	1060	16.0	1145	1000
0921110116	150	147.11	37	2.25	15.8	58.98	0.1238	1337	17.8	1430	1000
0921110117	185	181.62	37	2.50	17.5	72.81	0.1003	1649	19.5	1748	1000
0921110118	240	242.54	61	2.25	20.3	97.23	0.0753	2209	22.5	2338	1000
0921110119	300	299.43	61	2.50	22.5	120.04	0.061	2725	24.7	2870	1000
0921110120	400	400.14	61	2.89	26.0	160.42	0.0456	3640	28.2	3810	500
0921110121	500	499.83	61	3.23	29.1	200.38	0.0365	4545	31.3	4739	500

AAC / PVC

All Aluminium Conductors
TYPE 8 PVC INSULATION

BS 215:Part 1
BS 6485



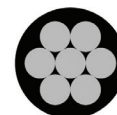
PVC Insulated

Riyadh Cables CODE NUMBER	CODE WORD	NOMINAL AREA	CALCULATED AREA	WIRES		APPROX OVERALL DIAMET- ER	NOMINAL BREAKING LOAD	NOM. DC RESISTANCE AT 20 Deg. C.	APPROX. WEIGHT	APPROX. OVERALL DIAMETER	APPROX TOTAL WEIGHT	PACKING LENGTH
				No.	DIA.							
		(MM2)	(MM2)		(MM)	(MM)	(KN)	(OHM/KM)	(KG/KM)	(MM)	(KG/KM)	(M+/-5%)
0931310101	MIDGE	22	23.33	7	2.06	6.2	3.99	1.227	64	8.4	106	3000
0931310102	APHIS	25	26.44	3	3.35	7.2	4.11	1.081	73	9.2	133	3000
0931310103	GNAT	25	26.8	7	2.21	6.6	4.59	1.066	73	8.8	118	3000
0931310104	WEEVIL	30	31.6	3	3.66	7.9	4.86	0.9082	86	10.1	158	3000
0931310105	MOSQUITO	35	37	7	2.59	7.8	6.03	0.7762	101	10.0	156	3000
0931310106	LADYBIRD	40	42.8	7	2.79	8.4	6.87	0.6689	117	10.6	177	3000
0931310107	ANT	50	52.83	7	3.1	9.3	8.28	0.5419	145	11.5	212	3000
0931310108	FLY	60	63.55	7	3.4	10.2	9.9	0.4505	174	12.4	249	2500
0931310109	BLUEBOTTLE	70	73.55	7	3.66	11.0	11.34	0.3881	202	13.2	285	2500
0931310110	EARWING	75	78.5	7	3.78	11.4	11.94	0.3644	215	13.6	302	2000
0931310111	GRASSHOPPER	80	84.1	7	3.91	11.7	12.78	0.3406	230	13.9	319	2000
0931310112	CLEGG	90	95.6	7	4.17	12.5	14.53	0.2994	262	14.7	359	2000
0931310113	WASP	100	106	7	4.39	13.21	16.0	0.2702	290	15.4	393	3000
0931310114	BEETLE	100	106.6	19	2.67	13.4	17.42	0.2704	293	15.6	387	3000
0931310115	BEE	125	132	7	4.9	14.7	19.94	0.2169	361	16.9	482	2500
0931310116	CRICKET	150	157.9	7	5.36	16.1	23.85	0.1813	432	18.3	567	2000
0931310117	HORNET	150	157.6	19	3.25	16.3	27.7	0.1825	434	18.5	538	3000
0931310118	CATERPILLAR	175	186	19	3.53	17.7	28.63	0.1547	512	19.9	646	2500
0931310119	CHAFER	200	213.2	19	3.78	18.9	32.4	0.1349	587	21.1	733	2000
0931310120	SPIDER	225	236.9	19	3.99	20.0	36.01	0.1211	652	22.2	809	2000
0931310121	COCKROACH	250	265.7	19	4.22	21.1	40.4	0.1083	731	23.3	900	3000
0931310122	BUTTERFLY	300	322.7	19	4.65	23.3	48.7	0.08916	888	25.5	1082	3000
0931310123	MOTH	350	373.2	19	5.0	25.0	56.37	0.07711	1027	27.2	1241	2500
0931310124	DRONE	350	373.3	37	3.58	25.1	57.45	0.07741	1029	27.3	1222	2500
0931310125	LOCUST	400	428.5	19	5.36	26.8	64.73	0.0671	1179	29	1416	2000
0931310126	CENTIPEDE	400	415.2	37	3.78	26.5	63.1	0.06944	1145	28.7	1353	2000
0931310127	MAYBUG	450	486.9	37	4.09	28.6	74.01	0.05931	1342	30.8	1573	2000
0931310128	SCORPION	500	529.5	37	4.27	29.9	79.98	0.05441	1460	32.1	1706	1500
0931310129	CICADA	600	628.6	37	4.65	32.6	94.95	0.04588	1733	34.8	2010	1500
0931310130	TARANTULA	750	794.8	37	5.23	36.6	120.1	0.03627	2191	38.8	2519	1000

AAC / PVC

All Aluminium Conductors (AAC)
TYPE 8 PVC INSULATION

DIN 48201:Part 5 *
BS 6485



PVC Insulated

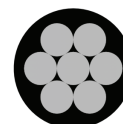
Riyadh Cables CODE NUMBER	NOMINAL AREA (MM ²)	CALCULATED AREA (MM ²)	WIRES		APPROX OVERALL DIAMETER (MM)	NOMINAL BREAKING LOAD (KN)	NOM. DC RESISTANCE AT 20 Deg. C. (OHM/KM)	APPROX. WEIGHT (KG/KM)	APPROX. OVERALL DIAMETER (MM)	APPROX TOTAL WEIGHT (KG/KM)	PACKING LENGTH (M+/-5%)
			No.	DIA. (MM)							
0931110109	16	15.89	7	1.7	5.1	2.84	1.802	44	7.3	77	3000
0931110110	25	24.25	7	2.1	6.3	4.17	1.181	67	8.5	108	3000
0931110111	35	34.36	7	2.5	7.5	5.78	0.8317	94	9.7	143	3000
0931110112	50	49.48	7	3.0	9.0	7.94	0.5787	135	11.2	196	3000
0931110112B	50	48.35	19	1.8	9.0	8.45	0.5950	133	11.2	187	3000
0931110113	70	65.81	19	2.1	10.5	11.32	0.4371	181	12.7	243	2000
0931110114	95	93.27	19	2.5	12.5	15.68	0.3085	256	14.7	333	2000
0931110115	120	117.0	19	2.8	14.0	18.78	0.2459	322	16.2	410	2000
0931110116	150	147.1	37	2.25	15.7	25.30	0.1960	406	17.9	498	2000
0931110117	185	181.6	37	2.5	17.5	30.54	0.1587	501	19.7	606	2000
0931110118	240	242.5	61	2.25	20.2	39.51	0.1191	670	22.4	787	2000
0931110119	300	299.4	61	2.5	22.5	47.70	0.0965	827	24.7	959	2000
0931110120	400	400.1	61	2.89	26.0	60.86	0.0722	1105	28.2	1262	2000
0931110121	500	499.8	61	3.23	29.1	74.67	0.0578	1381	31.3	1561	2000

* Standard is withdrawn but still required by some utilities .

AAAC / PVC

All Aluminium Alloy Conductors (AAAC)
PVC INSULATION Type 8

BS EN 50183
BS 6485



PVC Insulated

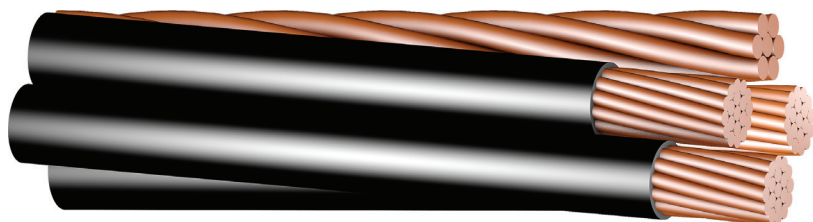
Riyadh Cables CODE NUMBER	CODE WORD	CALCULATED AREA (MM ²)	WIRES		APPROX OVERALL DIAMETER (MM)	NOMINAL BREAKING LOAD (KN)	NOM. DC RESISTANCE AT 20 Deg. C. (OHM/KM)	APPROX. WEIGHT (KG/KM)	APPROX. OVERALL DIAMETER (MM)	APPROX TOTAL WEIGHT (KG/KM)	PACKING LENGTH (M+/-5%)
			No.	DIA. (MM)							
0941310104	ALMOND	30.10	7	2.34	7.02	8.88	1.0926	82.2	9.2	128	3000
0941310105	CEDAR	35.5	7	2.54	7.62	10.46	0.9273	96.8	9.8	147	3000
0941310107	FIR	47.8	7	2.95	8.85	14.11	0.6875	130.6	11.1	191	3000
0941310108	HAZEL	59.9	7	3.30	9.90	17.66	0.5494	163.4	12.1	232	2000
0941310109	PINE	71.6	7	3.61	10.8	21.14	0.4591	195.6	13.0	271	2000
0941310114	OAK	118.9	7	4.65	14	35.07	0.2767	324.5	16.2	430	2000
0941310116	MULBERRY	150.9	19	3.18	15.90	44.52	0.2192	414.3	18.1	515	2000
0941310117	ASH	180.7	19	3.48	17.40	53.31	0.1830	496.1	19.6	611	2000
0941310118	ELM	211.0	19	3.76	18.80	62.24	0.1568	579.2	21.0	705	2000
0941310122	UPAS	362.1	37	3.53	24.7	106.82	0.0917	997.5	26.9	1155	2000

CU / PVC (WP)

600 V WEATHER PROOF SERVICE DROP CABLES

COPPER CONDUCTORS
PVC INSULATION

DIN 48201, IEC 60228
IEC 60502



Riyadh Cables CODE NUMBER	NOMINAL CROSS SECTIONAL AREA (MM ²)	PHASE		NEUTRAL		APPROX. OVERALL DIAMETER (MM)	NOMINAL CONDUCTOR RESISTANCE AT 20 Deg. C. (OHM/KM)	APPROX. NET WEIGHT (KG/KM)	STANDARD PACKING LENGTH. (M+/-10%)
		NUMBER & NOMINAL DIAMETER OF WIRES (MM)	NOMINAL THICKNESS OF INSULATION (MM)	NOMINAL CROSS SECTIONAL AREA (MM ²)	NUMBER & NOMINAL DIAMETER OF WIRES (MM)				
DUPLEX									
0921112208	10	7x1.35	1.2	10	7x1.35	10.7	1.824	215	1000
0921112209	16	7x1.70	1.2	16	7x1.70	12.8	1.150	330	1000
0921112210	25	7x2.10	1.2	25	7x2.10	15.2	0.7535	492	1000
0921112211	35	7x2.50	1.2	35	7x2.50	17.6	0.5318	689	1000
0921112212	50	19x1.80	1.5	50	19x1.80	21.2	0.3798	973	1000
0921112213	70	19x2.10	1.5	70	19x2.10	24.2	0.2789	1310	1000
0921112214	95	19x2.50	1.5	95	19x2.50	28.2	0.1968	1836	500
0921112215	120	19x2.80	1.5	120	19x2.80	31.3	0.1569	2288	500
TRIPLEX									
0921112308	10	7x1.35	1.2	10	7x1.35	13.3	1.824	339	1000
0921112309	16	7x1.70	1.2	16	7x1.70	15.4	1.150	515	1000
0921112310	25	7x2.10	1.2	25	7x2.10	17.8	0.7535	761	1000
0921112311	35	7x2.50	1.2	35	7x2.50	20.2	0.5318	1061	1000
0921112312	50	19x1.80	1.5	50	19x1.80	24.4	0.3798	1500	1000
0921112313	70	19x2.10	1.5	70	19x2.10	27.4	0.2789	2011	500
0921112314	95	19x2.50	1.5	95	19x2.50	31.4	0.1968	2810	500
0921112315	120	19x2.80	1.5	120	19x2.80	34.4	0.1569	3495	500
QUADRUPLEX									
0921112408	10	7x1.35	1.2	10	7x1.35	16.0	1.824	462	1000
0921112409	16	7x1.70	1.2	16	7x1.70	18.5	1.150	700	1000
0921112410	25	7x2.10	1.2	25	7x2.10	21.4	0.7535	1030	1000
0921112411	35	7x2.50	1.2	35	7x2.50	24.3	0.5318	1433	1000
0921112412	50	19x1.80	1.5	50	19x1.80	29.4	0.3798	2028	500
0921112413	70	19x2.10	1.5	70	19x2.10	33.0	0.2789	2713	500
0921112414	95	19x2.50	1.5	95	19x2.50	37.9	0.1968	3784	500
0921112415	120	19x2.80	1.5	120	19x2.80	41.6	0.1569	4700	500

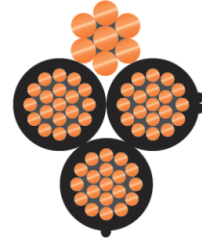
CU / XLPE (WP)

600 V WEATHER PROOF SERVICE DROP CABLES

COPPER CONDUCTORS
XLPE INSULATION

IEC 60502

DIN 48201, IEC 60228
GENERALLY TO ICEA-S-76-474



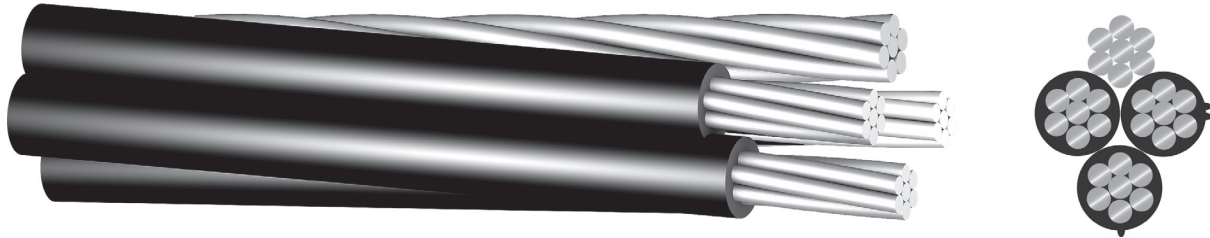
Riyadh Cables CODE NUMBER	NOMINAL CROSS SECTIONAL AREA (MM ²)	PHASE		NEUTRAL		APPROX. OVERALL DIAMETER (MM)	NOMINAL CONDUCTOR RESISTANCE AT 20 Deg. C. (OHM/KM)	APPROX. NET WEIGHT (KG/KM)	STANDARD PACKING LENGTH. (M+/-10%)
		NUMBER& NOMINAL DIAMETER OF WIRES (MM)	NOMINAL THICKNESS OF INSULATION (MM)	NOMINAL CROSS SECTIONAL AREA (MM ²)	NUMBER& NOMINAL DIAMETER OF WIRES (MM)				
DUPLEX									
0922112208	10	7x1.35	1.2	10	7x1.35	10.7	1.824	204	1000
0922112209	16	7x1.70	1.2	16	7x1.70	12.8	1.150	316	1000
0922112210	25	7x2.10	1.2	25	7x2.10	15.2	0.7535	475	1000
0922112211	35	7x2.50	1.2	35	7x2.50	17.6	0.5318	667	1000
0922112212	50	19x1.80	1.5	50	19x1.80	21.2	0.3798	943	1000
0922112213	70	19x2.10	1.5	70	19x2.10	24.2	0.2789	1275	1000
0922112214	95	19x2.50	1.5	95	19x2.50	28.2	0.1968	1794	500
0922112215	120	19x2.80	1.5	120	19x2.80	31.3	0.1569	2242	500
TRIPLEX									
0922112308	10	7x1.35	1.2	10	7x1.35	13.3	1.824	316	1000
0922112309	16	7x1.70	1.2	16	7x1.70	15.4	1.150	487	1000
0922112310	25	7x2.10	1.2	25	7x2.10	17.8	0.7535	726	1000
0922112311	35	7x2.50	1.2	35	7x2.50	20.2	0.5318	1018	1000
0922112312	50	19x1.80	1.5	50	19x1.80	24.4	0.3798	1439	1000
0922112313	70	19x2.10	1.5	70	19x2.10	27.4	0.2789	1942	500
0922112314	95	19x2.50	1.5	95	19x2.50	31.4	0.1968	2727	500
0922112315	120	19x2.80	1.5	120	19x2.80	34.4	0.1569	3403	500
QUADRUPLPLEX									
0922112408	10	7x1.35	1.2	10	7x1.35	16.0	1.824	428	1000
0922112409	16	7x1.70	1.2	16	7x1.70	18.5	1.150	657	1000
0922112410	25	7x2.10	1.2	25	7x2.10	21.4	0.7535	978	1000
0922112411	35	7x2.50	1.2	35	7x2.50	24.3	0.5318	1369	1000
0922112412	50	19x1.80	1.5	50	19x1.80	29.4	0.3798	1936	500
0922112413	70	19x2.10	1.5	70	19x2.10	33.0	0.2789	2609	500
0922112414	95	19x2.50	1.5	95	19x2.50	37.9	0.1968	3659	500
0922112415	120	19x2.80	1.5	120	19x2.80	41.6	0.1569	4564	500

AL / PVC (WP)

ALUMINIUM CONDUCTORS
PVC INSULATION

600 V WEATHER PROOF SERVICE DROP CABLES

IEC 61089
IEC 60228
IEC 60502
DIN 48201 : Part 5 *



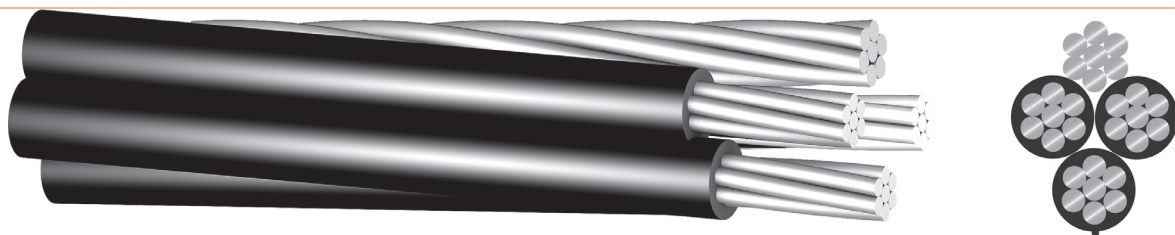
Riyadh Cables CODE NUMBER	NOMINAL CROSS SECTIONAL AREA	PHASE		NEUTRAL		APPROX. OVERALL DIAMETER	NOMINAL CONDUCTOR RESISTANCE AT 20 Deg. C.	APPROX. NET WEIGHT	STANDARD PACKING LENGTH.
		NUMBER & NOMINAL DIAMETER OF WIRES	NOMINAL THICKNESS OF INSULATION	NOMINAL CROSS SECTIONAL AREA	NUMBER & NOMINAL DIAMETER OF WIRES				
	(MM ²)	(MM)	(MM)	(MM ²)	(MM)	(MM)	(OHM/KM)	(KG/KM)	(M+/-10%)
DUPLEX									
0931113209	16	7x1.70	1.2	16	7x1.70	12.8	1.820	129	1000
0931113210	25	7x2.10	1.2	25	7x2.10	15.2	1.193	184	1000
0931113211	35	7x2.50	1.2	35	7x2.50	17.6	0.840	248	1000
0931113212	50	19x1.80	1.5	50	19x1.80	21.2	0.601	353	1000
0931113213	70	19x2.10	1.5	70	19x2.10	24.2	0.441	463	1000
0931113214	95	19x2.50	1.5	95	19x2.50	28.2	0.311	636	500
0931113215	120	19x2.80	1.5	120	19x2.80	31.3	0.248	782	500
TRIPLEX									
0931113309	16	7x1.70	1.2	16	7x1.70	15.4	1.820	212	1000
0931113310	25	7x2.10	1.2	25	7x2.10	17.8	1.193	299	1000
0931113311	35	7x2.50	1.2	35	7x2.50	20.2	0.840	400	1000
0931113312	50	19x1.80	1.5	50	19x1.80	24.4	0.601	570	1000
0931113313	70	19x2.10	1.5	70	19x2.10	27.5	0.441	742	500
0931113314	95	19x2.50	1.5	95	19x2.50	31.6	0.311	1010	500
0931113315	120	19x2.80	1.5	120	19x2.80	34.4	0.248	1236	500
QUADRUPLEX									
0931113409	16	7x1.70	1.2	16	7x1.70	18.5	1.820	296	1000
0931113410	25	7x2.10	1.2	25	7x2.10	21.4	1.193	414	1000
0931113411	35	7x2.50	1.2	35	7x2.50	24.3	0.840	551	1000
0931113412	50	19x1.80	1.5	50	19x1.80	29.4	0.601	787	500
0931113413	70	19x2.10	1.5	70	19x2.10	33.0	0.441	1020	500
0931113414	95	19x2.50	1.5	95	19x2.50	37.9	0.311	1385	500
0931113415	120	19x2.80	1.5	120	19x2.80	41.6	0.248	1690	500

* Standard is withdrawn but still required by some utilities .

AL / XLPE (WP) +AAAC

ALUMINIUM CONDUCTORS
ALUMINIUM ALLOY CONDUCTORS
XLPE INSULATION IEC 60502

IEC 60228
IEC 61089
GENERALLY TO ICEA-S-76-474



Characteristics of the Conductor Cores and of the Insulated Conductors

DESIGNATION		CONDUCTOR CORE				AVE. THICKNESS OF THE INSULATING SHEATH (Specified Value)	APPROX. INSULATED CONDUCTOR EXTERNAL DIAMETER
Function	Nominal Cross Section	Number of Strands	Linear Resistance Max. at 20°C	Approx. Dia. of Cores	Breaking Load		
	(MM2)	No.	Ohms/Km	mm	daN	mm	mm
Phase of Public lighting	16	7	1.91	5.0	290	1.2	8.0
	25	7	1.20	6.3	425	1.4	9.7
	35	7	0.868	7.4	585	1.6	11.2
	50	7	0.641	8.8	810	1.6	12.6
	70	19	0.443	10.5	1150	1.8	14.9
	95	19	0.320	12.4	1595	1.8	16.8
Neutral Messenger	54.6	7	0.63	9.45	1755	1.6	13.3

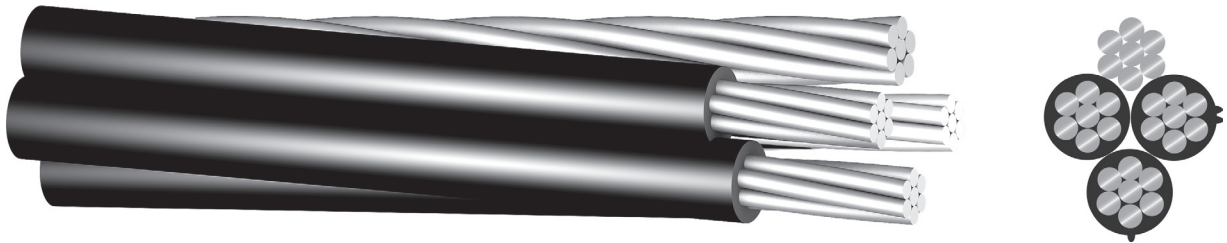
Characteristics of the Bundled Conductors

DESIGNATION		Approx. Dia. Spiralled	Approx. Mass	Permissible Current Rating (Amperes)		Voltage drop P.F=0.8 V/A Km	
Aluminium phase and Public Lighting	Neutral Messenger AGS/L (MM ²)			Phase Conductor	Public Lighting Conductor	Phase Conductor	Public Lighting Conductor
		mm	Kg / Km				
3 x 25	54.6	30	546	122	-	2.18	-
3 x 25 + 16	54.6	30	611	122	93	2.18	3.41
3 x 25 + 2 x 16	54.6	30	676	122	93	2.18	3.41
3 x 25 + 25	54.6	30	651	122	122	2.18	2.18
3 x 25 + 2 x 25	54.6	30	756	122	122	2.18	2.18
3 x 35	54.6	33	650	138	-	1.56	-
3 x 35 + 16	54.6	33	715	138	93	1.56	3.41
3 x 35 + 2 x 16	54.6	33	785	138	93	1.56	3.41
3 x 35 + 25	54.6	33	755	138	122	1.56	2.18
3 x 35 + 2 x 25	54.6	33	860	138	122	1.56	2.18
3 x 50	54.6	36	780	168	-	1.09	-
3 x 50 + 16	54.6	36	850	168	93	1.09	3.41
3 x 50 + 2 x 16	54.6	36	915	168	93	1.09	3.41
3 x 50 + 25	54.6	36	885	168	122	1.09	2.18
3 x 50 + 2 x 25	54.6	36	990	168	122	1.09	2.18
3 x 70	54.6	40	1010	213	-	0.78	-
3 x 70 + 16	54.6	40	1080	213	93	0.78	3.41
3 x 70 + 2 x 16	54.6	40	1145	213	93	0.78	3.41
3 x 70 + 25	54.6	40	1115	213	122	0.78	2.18
3 x 70 + 2 x 25	54.6	40	1220	213	122	0.78	2.18
3 x 95	54.6	42	1290	258	-	0.58	-
3 x 95 + 16	54.6	42	1360	258	93	0.58	3.41
3 x 95 + 2 x 16	54.6	42	1430	258	93	0.58	3.41
3 x 95 + 25	54.6	42	1395	258	122	0.58	2.18
3 x 95 + 2 x 25	54.6	42	1500	258	122	0.58	2.18

AL / XLPE (WP) +AAAC

ALUMINIUM CONDUCTORS
ALUMINIUM ALLOY CONDUCTORS
XLPE INSULATION IEC 60502

IEC 60228
IEC 61089
GENERALLY TO ICEA-S-76-474



INSULATED CONDUCTORS :

Aluminium conductor as per IEC 60228 with XLPE Insulation (Black) as per IEC 605021-+2.5% Carbon Black.

MESSENGER :

Bare Aluminium Alloy Conductor as per IEC 61089.

ASSEMBLING :

Lay Length Equal to 18 to 24 times the diameter of assembled conductor.

DERATING FACTORS :

Current values valid for cable laid alone at a temp. of 30°C. in free air. For other temperature conditions, apply the below mentioned correction factors.

Ambient Temp.	Correction Factors
10 °C	1.17
15 °C	1.13
20 °C	1.09
25 °C	1.04
30 °C	1.00
35 °C	0.95
40 °C	0.91
45 °C	0.85
50 °C	0.80
60 °C	0.67
70 °C	0.52

AAC

All Aluminium Stranded Conductors (Class A & Class AA)

ASTM B-231



Riyadh Cables CODE NUMBER	CODE NAME	AREA		STRANDING AND WIRE DIAMETER (MM)	APPROX. OVERALL DIAMETER (MM)	WEIGHT (KG/KM)	NOMINAL BREAKING LOAD (KN)	NOM. DC RESISTANCE AT 20 DEG. C. (OHM/KM)	STANDARD LENGTH (M+/-5%)
		NOMINAL	ACTUAL						
		AWG or MCM	(MM ²)						
0930710101	PEACHBELL	6	13.29	7/1.554	4.67	37	2.49	2.1692	3500
0930710102	ROSE	4	21.16	7/1.961	5.89	58	3.96	1.3624	3000
0930710103	IRIS	2	33.61	7/2.474	7.42	93	5.97	0.8577	2500
0930710104	PANSY	1	42.39	7/2.776	8.33	117	7.32	0.6801	2500
0930710105	POPPY	1/0	53.48	7/3.119	9.36	147	8.73	0.5390	2000
0930710106	ASTER	2/0	67.42	7/3.503	10.51	186	11.00	0.4276	3500
0930710107	PHLOX	3/0	85.03	7/3.932	11.80	234	13.47	0.3390	3000
0930710108	OXLIP	4/0	107.23	7/4.417	13.26	296	16.98	0.2688	2000
0930710109	VALERIAN	250	126.71	19/2.913	14.57	349	20.62	0.2275	2000
0930710110	SNEEZEWORD	250	126.71	7/ 4.80	14.4	349	20.07	0.2275	2000
0930710111	LAUREL	266.8	135.16	19/3.01	15.05	373	22.00	0.2133	2000
0930710112	DAISY	266.8	135.16	7 / 4.96	14.9	373	21.41	0.2133	2000
0930710113	PEONY	300	152.0	19/3.193	15.97	419	24.03	0.1896	3000
0930710114	TULIP	336.4	170.45	19/3.381	16.91	470	26.95	0.1691	3000
0930710115	DAFFODIL	350	177.35	19/3.447	17.24	489	28.04	0.1625	3000
0930710116	CANNA	397.5	201.42	19/3.673	18.36	555	31.84	0.1431	2500
0930710117	GOLDENTUFT	450	228.0	19/3.909	19.55	629	34.99	0.1264	2000
0930710118	SYRINGA	477	241.68	37/2.882	20.19	666	38.49	0.1193	2500
0930710119	COSMOS	477	241.68	19/4.023	20.12	666	37.08	0.1193	2000
0930710120	HYACINTH	500	253.35	37/2.951	20.65	698	40.35	0.1138	2500

AAC

All Aluminium Stranded Conductors (Class A & Class AA)

ASTM B-231



Riyadh Cables CODE NUMBER	CODE NAME	AREA		STRANDING AND WIRE DIAMETER (MM)	APPROX. OVERALL DIAMETER (MM)	WEIGHT (KG/KM)	NOMINAL BREAKING LOAD (KN)	NOM. DC RESISTANCE AT 20 DEG. C. (OHM/KM)	STANDARD LENGTH (M+/-5%)
		NOMINAL	ACTUAL						
		AWG or MCM	(MM ²)						
0930710121	ZINNIA	500	253.35	19/4.12	20.6	698	38.88	0.1138	2000
0930710122	DAHLIA	556.5	282	19/4.346	21.73	777	43.27	0.1022	2000
0930710123	MISTLETOE	556.5	282	37/3.114	21.79	777	43.62	0.1022	2000
0930710124	MEADOWSWEET	600	304	37/3.233	22.63	838	47.03	0.0948	2000
0930710125	ORCHID	636	322.25	37/3.33	23.31	888	49.85	0.0894	2000
0930710126	HEUCHERA	650	329.35	37/3.366	23.56	908	50.95	0.0875	2000
0930710127	FLAG	700	354.71	61/2.72	24.48	978	51.46	0.0813	2000
0930710128	VERBENA	700	354.71	37/3.493	24.45	978	54.87	0.0813	2000
0930710129	NASTURTIUM	715.5	362.58	61/2.75	24.76	1000	58.74	0.0795	2000
0930710130	VIOLET	715.5	362.58	37/3.533	24.74	1000	56.09	0.0795	3000
0930710131	CATTAIL	750	380	61/2.817	25.35	1048	59.85	0.0759	2000
0930710132	PETUNIA	750	380	37/3.617	25.32	1048	58.75	0.0759	3000
0930710133	LILAC	795	402.84	61/2.90	26.11	1111	63.45	0.0715	2000
0930710134	ARBUTUS	795	402.84	37/3.724	26.06	1111	62.32	0.0715	3000
0930710135	SNAPDRAGON	900	456.06	61/3.086	27.78	1257	69.78	0.0632	3000

AAC

All Aluminium Stranded Conductors (Class A & Class AA)

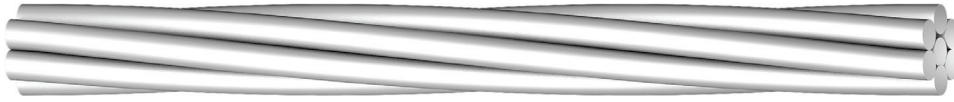
ASTM B-231



Riyadh Cables CODE NUMBER	CODE NAME	AREA		STRANDING AND WIRE DIAMETER (MM)	APPROX. OVERALL DIAMETER (MM)	WEIGHT (KG/KM)	NOMINAL BREAKING LOAD (KN)	NOM. DC RESISTANCE AT 20 DEG. C. (OHM/KM)	STANDARD LENGTH (M+/-5%)
		NOMINAL	ACTUAL						
		AWG or MCM	(MM ²)						
0930710136	COCKSCOMB	900	456.06	37/3.962	27.73	1257	68.48	0.0632	2500
0930710137	GOLDENROD	954	483.42	61/3.177	28.6	1333	78.96	0.0596	2000
0930710138	MAGNOLIA	954	483.42	37/4.079	28.55	1333	72.58	0.0596	2500
0930710139	CAMELLIA	1000	506.71	61/3.251	29.36	1397	77.53	0.0569	2000
0930710140	HAWKWEED	1000	506.71	37/4.176	29.23	1397	76.08	0.0569	2500
0930710141	LARKSPUR	1033.5	523.68	61/3.307	29.76	1444	80.12	0.0550	2500
0930710142	BLUEBELL	1033.5	523.68	37/4.244	29.72	1444	78.63	0.0550	2500
0930710143	MARIGOLD	1113	563.93	61/3.432	30.89	1555	86.28	0.0511	2500
0930710144	HAWTHORN	1192.5	604.26	61/3.551	31.05	1666	92.45	0.0477	2000
0930710145	NARCISSUS	1272	644.51	61/3.668	33.02	1777	98.61	0.0447	2000
0930710146	COLUMBINE	1351.5	684.84	61/3.78	34.01	1888	104.78	0.0421	2000
0930710147	CARNATION	1431	725.10	61/3.89	35.03	1999	107.68	0.0398	2000
0930710148	GLADIOLUS	1510.5	765.35	61/4.00	35.09	2110	113.65	0.0376	2000
0930710149	COREOPSIS	1590	805.68	61/4.099	36.51	2221	119.64	0.0358	2000
0930710150	JESSAMINE	1750	886.71	61/4.302	38.73	2445	131.68	0.0325	1500



Riyadh Cables CODE NUMBER	CODE NAME	AREA		STRANDING AND WIRE DIAMETER	APPROX. OVERALL DIAMETER	WEIGHT	NOMINAL BREAKING LOAD	NOM. DC RESISTANCE AT 20 DEG. C.	STANDARD LENGTH
		NOMINAL	ACTUAL						
		(MM ²)	(MM ²)						
0930310101	MIDGE	22	23.33	7/2.06	6.2	64	3.99	1.227	2500
0930310102	APHIS	25	26.4	3/3.35	7.2	73	4.11	1.081	2000
0930310103	GNAT	25	26.8	7/2.21	6.6	73	4.59	1.066	2000
0930310104	WEEVIL	30	31.6	3/3.66	7.9	86	4.86	0.9082	3000
0930310105	MOSQUITO	35	37.0	7/2.59	7.8	101	6.03	0.7762	2000
0930310106	LADYBIRD	40	42.8	7/2.79	8.4	117	6.87	0.6689	2000
0930310107	ANT	50	52.83	7/3.10	9.3	145	8.28	0.5419	2000
0930310108	FLY	60	63.55	7/3.40	10.2	174	9.90	0.4505	2000
0930310109	BLUEBOTTLE	70	73.7	7/3.66	11.0	202	11.34	0.3881	3000
0930310110	EARWING	75	78.5	7/3.78	11.4	215	11.94	0.3644	3000
0930310111	GRASSHOPPER	80	84.1	7/3.91	11.7	230	12.78	0.3406	3000
0930310112	CLEGG	90	95.6	7/4.17	12.5	262	14.53	0.2995	2500
0930310113	WASP	100	106.0	7/4.39	13.2	290	16.00	0.2702	2000
0930310114	BEETLE	100	106.6	19/2.67	13.4	293	17.42	0.2704	2000
0930310115	BEE	125	132.0	7/4.90	14.7	361	19.94	0.2169	2000



Riyadh Cables CODE NUMBER	CODE NAME	AREA		STRANDING AND WIRE DIAMETER (MM)	APPROX. OVERALL DIAMETER (MM)	WEIGHT (KG/KM)	NOMINAL BREAKING LOAD (KN)	NOM. DC RESISTANCE AT 20 DEG. C. (OHM/KM)	STANDARD LENGTH (M+/-5%)
		NOMINAL	ACTUAL						
		(MM ²)	(MM ²)						
0930310116	CRICKET	150	157.9	7/5.36	16.1	432	23.85	0.1813	1500
0930310117	HORNET	150	157.6	19/3.25	16.3	434	27.70	0.1825	3000
0930310118	CATERPILLAR	175	186.0	19/3.53	17.7	512	28.63	0.1547	2500
0930310119	CHAFER	200	213.2	19/3.78	18.9	587	32.40	0.1349	2500
0930310120	SPIDER	225	236.9	19/3.99	20.0	652	36.01	0.1211	2000
0930310121	COCKROACH	250	265.7	19/4.22	21.1	731	40.40	0.10830	2000
0930310122	BUTTERFLY	300	322.7	19/4.65	23.3	888	48.70	0.08916	1500
0930310123	MOTH	350	373.2	19/5.00	25.0	1027	56.37	0.07711	1500
0930310124	DRONE	350	373.3	37/3.58	25.1	1029	57.45	0.07741	3500
0930310125	LOCUST	400	428.5	19/5.36	26.8	1179	64.73	0.06710	1500
0930310126	CENTIPEDE	400	415.2	37/3.78	26.5	1145	63.10	0.06944	3000
0930310127	MAYBUG	450	486.9	37/4.09	28.6	1342	74.01	0.05931	2500
0930310128	SCORPION	500	529.5	37/4.27	29.9	1460	79.98	0.05441	2500
0930310129	CICADA	600	628.6	37/4.65	32.6	1733	94.95	0.04588	2000
0930310130	TARANTULA	750	794.8	37/5.23	36.6	2191	120.10	0.03627	1500

AAC

Hard Drawn Aluminium
Characteristics of A1 Conductors

IEC 889
IEC 61089



Riyadh Cables Code number	Specification Code number	Area mm ²	Number of wires	Diameter		Linear mass Kg/km	Rated strength kN	D.C resistance Ohm/km
				Wire mm	Cond. mm			
0930010008	10	10	7	1.35	4.05	27.4	1.95	2.8633
0930010009	16	16	7	1.71	5.12	43.8	3.04	1.7896
0930010010	25	25	7	2.13	6.40	68.4	4.50	1.1453
0930010011	40	40	7	2.70	8.09	109.4	6.80	0.7158
0930010012	63	63	7	3.39	10.2	172.3	10.39	0.4545
0930010013	100	100	19	2.59	12.9	274.8	17.00	0.2877
0930010014	125	125	19	2.89	14.5	343.6	21.25	0.2302
0930010015	160	160	19	3.27	16.4	439.8	26.40	0.1798
0930010016	200	200	19	3.66	18.3	549.7	32.00	0.1439
0930010017	250	250	19	4.09	20.5	687.1	40.00	0.1151
0930010018	315	315	37	3.29	23.0	867.9	51.97	0.0916
0930010019	400	400	37	3.71	26.0	1102.0	64.00	0.0721
0930010020	450	450	37	3.94	27.5	1239.8	72.00	0.0641
0930010021	500	500	37	4.15	29.0	1377.6	80.00	0.0577
0930010022	560	560	37	4.39	30.7	1542.9	89.60	0.0515
0930010023	630	630	61	3.63	32.6	1738.3	100.80	0.0458
0930010024	710	710	61	3.85	34.6	1959.1	113.60	0.0407
0930010025	800	800	61	4.09	36.8	2207.4	128.00	0.0361
0930010026	900	900	61	4.33	39.0	2483.3	144.00	0.0321
0930010027	1000	1000	61	4.57	41.1	2759.2	160.00	0.0289
0930010028	1120	1120	91	3.96	43.5	3093.5	179.20	0.0258
0930010029	1250	1250	91	4.18	46.0	3452.6	200.00	0.0231
0930010030	1400	1400	91	4.43	48.7	3866.9	224.00	0.0207
0930010031	1500	1500	91	4.58	50.4	4143.1	240.00	0.0193

AAAC

Aluminium Alloy Type B
Characteristics of A2 Conductors

IEC 104
IEC 61089



Riyadh Cables Code number	Specification Code number	Area mm ²	Number of wires	Diameter		Linear mass Kg/km	Rated strength kN	D.C resistance Ohm/km
				Wire mm	Cond. mm			
0940011109	16	18.4	7	1.83	5.49	50.4	5.43	1.7896
0940011110	25	28.8	7	2.29	6.86	78.7	8.49	1.1453
0940011111	40	46.0	7	2.89	8.68	125.9	13.58	0.7158
0940011112	63	72.5	7	3.63	10.9	198.3	21.39	0.4545
0940011113	100	115	19	2.78	13.9	316.3	33.95	0.2877
0940011114	125	144	19	3.10	15.5	395.4	42.44	0.2302
0940011115	160	184	19	3.51	17.6	506.1	54.32	0.1798
0940011116	200	230	19	3.93	19.6	632.7	67.91	0.1439
0940011117	250	288	19	4.39	22.0	790.8	84.88	0.1151
0940011118	315	363	37	3.53	24.7	998.9	106.95	0.0916
0940011119	400	460	37	3.98	27.9	1268.4	135.81	0.0721
0940011120	450	518	37	4.22	29.6	1426.9	152.79	0.0641
0940011121	500	575	37	4.45	31.2	1585.5	169.76	0.0577
0940011122	560	645	61	3.67	33.0	1778.4	190.14	0.0516
0940011123	630	725	61	3.89	35.0	2000.7	213.90	0.0458
0940011124	710	817	61	4.13	37.2	2254.8	241.07	0.0407
0940011125	800	921	61	4.38	39.5	2540.6	271.62	0.0361
0940011126	900	1036	91	3.81	41.8	2861.1	305.58	0.0321
0940011127	1000	1151	91	4.01	44.1	3179.0	339.53	0.0289
0940011128	1120	1289	91	4.25	46.7	3560.5	380.27	0.0258
0940011129	1250	1439	91	4.49	49.4	3973.7	424.41	0.0231

AAAC

Aluminium Alloy Type A
Characteristics of A3 Conductors

IEC 104
IEC 61089



Riyadh Cables Code number	Specification Code number	Area	Number of wires	Diameter		Linear mass	Rated strength	D.C resistance
				Wire	Cond.			
		mm ²		mm	mm	Kg/km	kN	Ohm/km
0940010109	16	18.6	7	1.84	5.52	50.8	6.04	1.7896
0940010110	25	29.0	7	2.30	6.90	79.5	9.44	1.1453
0940010111	40	46.5	7	2.91	8.72	127.1	15.10	0.7158
0940010112	63	73.2	7	3.65	10.9	200.2	23.06	0.4545
0940010113	100	116	19	2.79	14.0	319.3	37.76	0.2877
0940010114	125	145	19	3.12	15.6	399.2	47.20	0.2302
0940010115	160	186	19	3.53	17.6	511.0	58.56	0.1798
0940010116	200	232	19	3.95	19.7	638.7	73.20	0.1439
0940010117	250	290	19	4.41	22.1	798.4	91.50	0.1151
0940010118	315	366	37	3.55	24.8	1008.4	115.29	0.0916
0940010119	400	465	37	4.00	28.0	1280.5	146.40	0.0721
0940010120	450	523	37	4.24	29.7	1440.5	164.70	0.0641
0940010121	500	581	37	4.47	31.3	1600.6	183.00	0.0577
0940010122	560	651	61	3.69	33.2	1795.3	204.96	0.0516
0940010123	630	732	61	3.91	35.2	2019.8	230.58	0.0458
0940010124	710	825	61	4.15	37.3	2276.2	259.86	0.0407
0940010125	800	930	61	4.40	39.6	2564.8	292.80	0.0361
0940010126	900	1046	91	3.83	42.1	2888.3	329.40	0.0321
0940010127	1000	1162	91	4.03	44.4	3209.3	366.00	0.0289
0940010128	1120	1301	91	4.27	46.9	3594.4	409.92	0.0258



Riyadh Cables Code No.	Area- mm ²	No. of wires	Diameter		Mass per unit length (Approx) Kg/km	Rated strength kN	DC Resistance Ω/km	Standard Length mts ±5%
			Wire	Cond.				
			mm	mm				
0940110109	15.9	7	1.70	5.10	43.3	4.69	2.070 1	3000
0940110110	24.2	7	2.10	6.30	66.2	7.15	1.356 6	3000
0940110111	34.4	7	2.50	7.50	93.8	10.14	0.957 2	3000
0940110112	49.5	7	3.00	9.00	135.1	14.60	0.664 7	3000
0940110112 B	48.3	19	1.80	9.00	132.7	14.26	0.684 1	3000
0940110113	65.8	19	2.10	10.5	180.7	19.41	0.502 6	2000
0940110114	93.3	19	2.50	12.5	256.0	27.51	0.354 6	2000
0940110115	117.0	19	2.80	14.0	321.2	34.51	0.282 7	2000
0940110116	147.1	37	2.25	15.8	405.3	43.40	0.225 6	2000
0940110117	181.6	37	2.50	17.5	500.3	53.58	0.182 7	2000
0940110118	242.5	61	2.25	20.3	670.3	71.55	0.137 3	2000
0940110119	299.4	61	2.50	22.5	827.5	88.33	0.111 2	2000
0940110120	400.1	61	2.89	26.0	1105.9	118.04	0.083 2	2000
0940110121	499.8	61	3.23	29.1	1381.4	147.45	0.066 6	2000
0940110122	626.2	91	2.96	32.6	1737.7	184.73	0.053 4	2000
0940110123	802.1	91	3.35	36.9	2225.8	236.62	0.041 7	2000
0940110124	999.7	91	3.74	41.1	2774.3	294.91	0.033 4	2000

AAAC and AACSR

All Aluminium Alloy Conductors (AAAC)

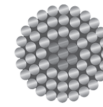
BS EN 50183

All Aluminium Alloy Steel Reinforced Conductors (AACSR)



AAAC

Riyadh Cables Code No.	Designation	Area	Stranding wire Diameter		Overall Diameter	Nominal Breaking Load	Nominal DC Resistance AT 20 °C	Standard Weight	Standard Length
			No	∅					
		mm ²			mm	KN	ohm/km.	kg/km	m. ±5%
0940810101	ASTER 22	22.0	7	2.00	6.00	7.15	1.4989	60.0	4000
0940810102	ASTER 34.4	34.4	7	2.50	7.50	11.17	0.9593	93.8	3000
0940810103	ASTER 54.6	54.6	7	3.15	9.45	17.73	0.6042	148.9	3000
0940810104	ASTER 75.5	75.5	19	2.25	11.3	24.55	0.4388	207.4	3000
0940810106	ASTER 117	117.0	19	2.80	14.0	38.02	0.2833	321.2	2000
0940810107	ASTER 148	148.1	19	3.15	15.8	48.12	0.2239	406.5	2000
0940810108	ASTER 181.6	181.6	37	2.50	17.5	59.03	0.1831	500.3	2000
0940810109	ASTER 228	227.8	37	2.80	19.6	74.04	0.1460	627.6	2000
0940810110	ASTER 288	288.3	37	3.15	22.1	93.71	0.1154	794.3	2000
0940810111	ASTER 366	366.2	37	3.55	24.9	115.36	0.0908	1008.9	2000
0940810112	ASTER 570	570.2	61	3.45	31.1	185.33	0.0585	1576.0	2000
0940810113	ASTER 851	850.7	91	3.45	38.0	276.47	0.0394	2360.7	2000
0940810114	ASTER 1144	1143.5	91	4.00	44.0	360.22	0.0293	3173.4	2000
0940810115	ASTER 1600	1595.9	127	4.00	52.0	502.72	0.0210	4427.5	2000



AACSR

Riyadh Cables Code No.	Designation	Area			Total Area	Stranding and wire dia				Diameter		Nominal Breaking Load	Nominal DC Resistance AT 20 °C	Standard Weight	Standard Length	
		Aluminum	Steel			Aluminum		Steel		Steel Core	Complete Conductor					
						No	∅	No.	∅							mm
		mm ²	mm ²	mm ²												
09A 0810101	PHLOX 37-7	28.3	9.4	37.7	9	2.00	3	2.00	4.30	8.30	22.86	1.1750	151.4	4000		
09A 0810102	PHLOX 59-7	37.7	22.0	59.7	12	2.00	7	2.00	6.00	10.0	44.14	0.8835	276.0	4000		
09A 0810103	PHLOX 75-5	47.7	27.8	75.5	12	2.25	7	2.25	6.75	11.3	55.86	0.6981	349.3	3000		
09A 0810104	PHLOX 116-2	56.5	59.7	116.2	18	2.00	19	2.00	10.0	14.0	104.93	0.5921	625.0	3000		
09A0810105	PHLOX 147-1	71.6	75.5	147.1	18	2.25	19	2.25	11.3	15.8	132.80	0.4678	791.0	3000		
09A0810106	PASTEL 147-1	119.3	27.8	147.1	30	2.25	7	2.25	6.75	15.8	79.12	0.2795	547.0	3000		
09A0810107	PHLOX 181-6	88.4	93.3	181.6	18	2.50	19	2.50	12.5	17.5	160.22	0.3789	976.6	3000		
09A0810108	PASTEL 181-6	147.3	34.4	181.6	30	2.50	7	2.50	7.50	17.5	96.31	0.2264	675.3	3000		
09A0810109	PHLOX 228	110.8	117.0	227.8	18	2.80	19	2.80	14.0	19.6	200.98	0.3021	1225.0	2000		
09A0810110	PASTEL 228	184.7	43.1	227.8	30	2.80	7	2.80	8.40	19.6	120.81	0.1805	847.1	2000		
09A0810111	PHLOX 288	140.3	148.1	288.3	18	3.15	19	3.15	15.8	22.1	249.93	0.2387	1550.4	2000		
09A0810112	PASTEL 288	233.8	54.6	288.3	30	3.15	7	3.15	9.45	22.1	151.26	0.1426	1072.1	2000		
09A0810113	PASTEL 299	206.2	93.3	299.4	42	2.50	19	2.50	12.5	22.5	198.51	0.1622	1302.8	2000		
09A0810114	PHLOX 94-1	52.0	42.1	94.1	15	2.10	19	1.68	8.40	12.6	77.96	0.6435	474.2	4000		
09A0810115	PASTEL 412	325.7	86.0	411.7	32	3.60	19	2.40	12.0	26.4	223.80	0.1025	1575.1	2500		
09A0810116	PHLOX 376	147.8	227.8	375.6	24	2.80	37	2.80	19.6	25.2	369.27	0.2270	2202.4	2000		
09A0810117	PETUNIA 612	507.8	104.8	612.6	66	3.13	19	2.65	13.3	32.0	312.81	0.0657	2225.0	2000		
09A0810118	PASTEL 865	717.3	148.1	865.4	66	3.72	19	3.15	15.8	38.1	430.29	0.0465	3143.2	2000		
09A0810119	POLYGONUM 1185	956.7	227.8	1184	54	2.80	37	2.80	19.6	42.0	632.15	0.0349	4430.7	2000		

AAAC

6201 Aluminium Alloy Conductors

ASTM B 399



RIYADH CABLES CODE NUMBER	CODE NAME	AREA		SIZE & STRANDING OF ACSR WITH EQUAL DIAMETER		NO. AND DIAMETER OF WIRES (MM)	OVERALL DIAMETER (MM)	WEIGHT (KG/KM)	NOMINAL BREAKING LOAD (KN)	STANDARD LENGTH (M+/-5%)
		NOMINAL	ACTUAL	AWG or MCM	AL/Steel					
		(MCM)	(MM ²)							
0940710130	AKRON	30.58	15.48	6	6/1	7 x 1.68	5.04	42.7	4.92	3000
0940710131	ALTON	48.69	24.71	4	6/1	7 x 2.12	6.35	68.0	7.84	3000
0940710132	AMES	77.47	39.22	2	6/1	7 x 2.67	8.02	108	12.45	2000
0940710133	AZUSA	123.3	62.38	1/0	6/1	7 x 3.37	10.11	172	18.97	2000
0940710134	ANAHEIM	155.4	78.65	2/0	6/1	7 x 3.78	11.35	217	23.93	3000
0940710135	AMHERST	195.7	99.22	3/0	6/1	7 x 4.25	12.75	273	30.18	2500
0940710136	ALLIANCE	246.9	125.1	4/0	6/1	7 x 4.77	14.31	345	38.05	2000
0940710137	BUTTE	312.8	158.6	266.8	26/7	19 x 3.26	16.30	437	48.76	3000
0940710138	CANTON	394.5	199.9	336.4	26/7	19 x 3.66	18.30	551	58.91	2500
0940710139	CAIRO	465.4	235.8	397.5	26/7	19 x 3.98	19.88	650	69.48	2000
0940710140	DARIEN	559.5	283.5	477	26/7	19 x 4.36	21.79	781	83.52	2000
0940710141	ELGIN	652.4	330.6	556.5	26/7	19 x 4.71	23.54	911	97.42	1500
0940710142	FLINT	740.8	375.3	636	26/7	37 x 3.59	25.16	1035	108.21	3000
0940710143	GREELEY	927.2	469.8	795	26/7	37 x 4.02	28.14	1295	135.47	2500



RIYADH CABLES CODE NUMBER	AREA		STRANDING AND WIRE DIAMETER (MM)	APPROX. OVERALL DIAMETER (MM)	WEIGHT (KG/KM)	NOMINAL BREAKING LOAD (KN)	NOM. DC RESISTANCE AT 20 DEG. C. (OHM/KM)	STANDARD LENGTH (M+/-5%)
	NOMINAL	ACTUAL						
	AWG or MCM	(MM ²)						
0940710101	6	13.30	7/1.554	4.67	37	4.22	2.5199	3500
0940710102	4	21.15	7/1.961	5.89	58	6.71	1.5824	3000
0940710103	2	33.63	7/2.474	7.42	93	10.68	0.9942	2500
0940710104	1/0	53.48	7/3.119	9.36	148	16.97	0.6256	2000
0940710105	2/0	67.42	7/3.503	10.51	186	20.52	0.4959	3500
0940710106	3/0	85.03	7/3.932	11.80	234	25.86	0.3936	3000
0940710107	4/0	107.23	7/4.417	13.26	296	32.63	0.3119	2000
0940710108	250	126.66	19/2.913	14.57	349	38.93	0.2642	2000
0940710109	300	152.10	19/3.193	15.97	419	46.77	0.2199	3000
0940710110	350	177.35	19/3.447	17.24	489	52.25	0.1887	3000
0940710111	400	202.71	19/3.686	18.43	559	59.74	0.1650	2500
0940710112	450	228.00	19/3.909	19.55	629	67.19	0.1467	2000
0940710113	500	253.35	19/4.120	20.60	698	74.64	0.1321	2000
0940710114	550	278.60	37/3.096	21.67	768	83.80	0.1202	2000
0940710115	600	303.80	37/3.233	22.63	838	91.38	0.1102	2000
0940710116	650	329.25	37/3.366	23.56	908	97.94	0.1016	2000
0940710117	700	354.55	37/3.493	24.45	978	102.20	0.0944	3500
0940710118	750	380.20	37/3.617	25.32	1049	109.60	0.0880	3000
0940710119	800	405.15	37/3.734	26.14	1117	116.80	0.0826	3000
0940710120	900	456.16	37/3.962	27.73	1258	131.50	0.0733	3000
0940710121	1000	506.71	37/4.176	29.23	1399	146.10	0.0660	2500

AAAC

All Aluminium Alloy Conductors

BS EN 50183



Riyadh Cables Code number	Old code	Area	No. of wires	Diameter		Mass per unit length	Rated strength	DC resistance
				Wire	Cond.			
		mm ²		mm	Mm	Kg/km	Kn	Ω/km
0940310102	BOX	18.8	7	1.85	5.55	51.4	5.55	1.7480
0940310103	ACACIA	23.8	7	2.08	6.24	64.9	7.02	1.3828
0940310104	ALMOND	30.1	7	2.34	7.02	82.2	8.88	1.0926
0940310105	CEDAR	35.5	7	2.54	7.62	96.8	10.46	0.9273
0940310106	DEODAR	42.2	7	2.77	8.31	115.2	12.44	0.7797
0940310107	FIR	47.8	7	2.95	8.85	130.6	14.11	0.6875
0940310108	HAZEL	59.9	7	3.30	9.90	163.4	17.66	0.5494
0940310109	PINE	71.6	7	3.61	10.8	195.6	21.14	0.4591
0940310110	HOLLY	84.1	7	3.91	11.7	229.5	24.79	0.3913
0940310111	WILLOW	89.7	7	4.04	12.1	245.0	26.47	0.3665
0940310114	OAK	118.9	7	4.65	14.0	324.5	35.07	0.2767
0940310116	MULBERRY	150.9	19	3.18	15.9	414.3	44.52	0.2192
0940310117	ASH	180.7	19	3.48	17.4	496.1	53.31	0.1830
0940310118	ELM	211.0	19	3.76	18.8	579.2	62.24	0.1568
0940310119	POPLAR	239.4	37	2.87	20.1	659.4	70.61	0.1387
0940310121	SYCAMORE	303.2	37	3.23	22.6	835.2	89.40	0.1095
0940310122	UPAS	362.1	37	3.53	24.7	997.5	106.82	0.0917
0940310124	YEW	479.0	37	4.06	28.4	1 319.6	141.31	0.0693
0940310125	TOTARA	498.1	37	4.14	29.0	1 372.1	1 46.93	0.0666
0940310126	RUBUS	586.9	61	3.50	31.5	1 622.0	173.13	0.0567
0940310127	SORBUS	659.4	61	3.71	33.4	1 822.5	194.53	0.0505
0940310128	ARAUCARIA	821.1	61	4.14	37.3	2 269.4	242.24	0.0406
0940310129	REDWOOD	996.2	61	4.56	41.0	2 753.2	293.88	0.0334

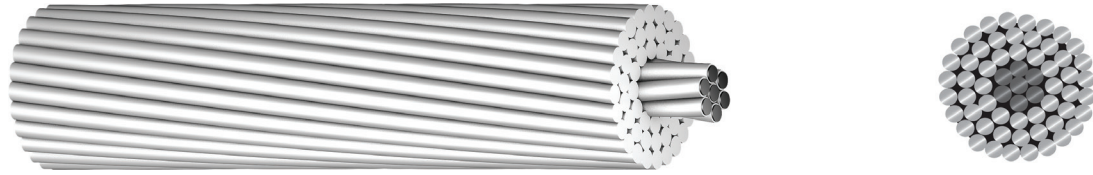
Note: Direction of lay of external layer is right -hand (Z).

AACSR

All Aluminium Alloy Steel Reinforced

Characteristics of A2/S1A Conductors

IEC 61089

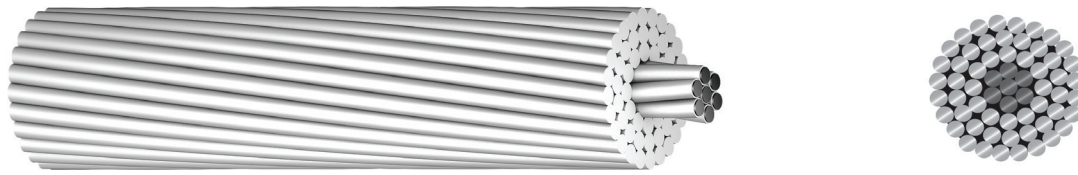


Riyadh Cables Code Number	Specification Code number	Steel ratio	Areas			Number of wires		Wire diam.		Diameter		Linear mass	Rated strength	D.C resistance
			Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
		%	mm ²	mm ²	mm ²			mm	mm	mm	mm	Kg/km	kN	Ohm/km
09A0011109	16	17	18.4	3.07	21.5	6	1	1.98	1.98	1.98	5.93	74.4	9.02	1.7934
09A0011110	25	17	28.8	4.80	33.6	6	1	2.47	2.47	2.47	7.41	116.2	13.96	1.1478
09A0011111	40	17	46.0	7.67	53.7	6	1	3.13	3.13	3.13	9.38	185.9	22.02	0.7174
09A0011112	63	17	72.5	12.1	84.6	6	1	3.92	3.92	3.92	11.8	292.8	34.68	0.4555
09A0011113	100	6	115	6.39	121	18	1	2.85	2.85	2.85	14.3	366.4	41.24	0.2880
09A0011114	125	6	144	7.99	152	18	1	3.19	3.19	3.19	16.0	458.0	51.23	0.2304
09A0011115	125	16	144	23.4	167	26	7	2.65	2.06	6.19	16.8	579.9	69.86	0.2310
09A0011116	160	6	184	10.2	194	18	1	3.61	3.61	3.61	18.0	586.2	65.58	0.1800
09A0011117	160	16	184	30.0	214	26	7	3.00	2.34	7.01	19.0	742.3	88.52	0.1805
09A0011118	200	6	230	12.8	243	18	1	4.04	4.04	4.04	20.2	732.8	81.97	0.1440
09A0011119	200	16	230	37.5	268	26	7	3.36	2.61	7.83	21.3	927.9	110.64	0.1444
09A0011120	250	10	288	28.3	316	22	7	4.08	2.27	6.80	23.1	1013.5	117.9	0.1154
09A0011121	250	16	288	46.9	335	26	7	3.75	2.92	8.76	23.8	1159.8	138.31	0.1155
09A0011122	315	7	363	25.1	388	45	7	3.20	2.14	6.41	25.6	1196.5	136.28	0.0917
09A0011123	315	16	363	59.0	422	26	7	4.21	3.28	9.83	26.7	1461.4	171.90	0.0917
09A0011124	400	7	460	31.8	492	45	7	3.61	2.41	7.22	28.9	1519.4	172.10	0.0722
09A0011125	400	13	460	59.7	520	54	7	3.29	3.29	9.88	29.7	1738.3	201.46	0.0723
09A0011126	450	7	518	35.8	554	45	7	3.83	2.55	7.66	30.6	1709.0	193.61	0.0642
09A0011127	450	13	518	67.1	585	54	7	3.49	3.49	10.5	31.5	1955.6	226.64	0.0643
09A0011128	500	7	575	39.8	615	45	7	4.04	2.69	8.07	32.3	1899.3	215.12	0.0578
09A0011129	500	13	575	74.6	650	54	7	3.68	3.68	11.1	33.2	2172.9	251.82	0.0578
09A0011130	560	7	645	44.6	689	45	7	4.27	2.85	8.54	34.2	2127.2	240.93	0.0516
09A0011131	560	13	645	81.6	726	54	19	3.90	2.34	11.7	35.1	2420.9	283.21	0.0516
09A0011132	630	4	725	31.3	756	72	7	3.58	2.39	7.16	35.8	2248.0	249.62	0.0459
09A0011133	630	13	725	91.8	817	54	19	4.13	2.48	12.4	37.2	2723.5	318.61	0.0459
09A0011134	710	4	817	35.3	852	72	7	3.80	2.53	7.60	38.0	2533.4	281.32	0.0407
09A0011135	710	13	817	104	921	54	19	4.39	2.63	13.2	39.5	3069.4	359.06	0.0407
09A0011136	800	4	921	39.8	961	72	7	4.04	2.69	8.07	40.4	2854.6	316.98	0.0361
09A0011137	800	8	921	76.7	997	84	7	3.74	3.74	11.2	41.1	3145.1	356.03	0.0362
09A0011138	900	4	1036	44.8	1081	72	7	4.28	2.85	8.56	42.8	3211.4	356.60	0.0321
09A0011139	900	8	1036	86.3	1122	84	7	3.96	3.96	11.9	43.6	3538.3	400.53	0.0322
09A0011140	1000	8	1151	93.7	1245	84	19	4.18	2.51	12.5	45.9	3916.8	446.37	0.0289
09A0011141	1120	8	1289	105	1394	84	19	4.42	2.65	13.3	48.6	4386.8	499.93	0.0258

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All Aluminium Alloy Steel Reinforced Characteristics of A2/S1B Conductors

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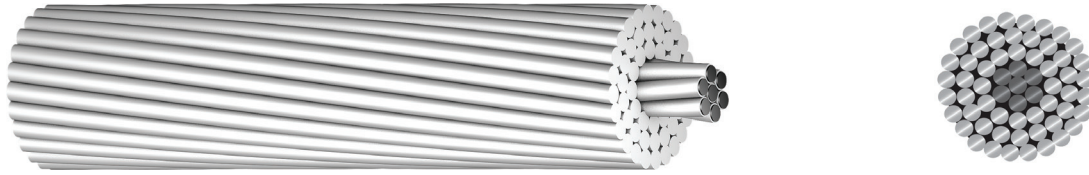
Riyadh Cables Code number	Specification Code number	Steel ratio	Areas			Number of wires		Wire di am..		Diameter		Linear mass	Rated strength	D.C resistance
			Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
		%	mm ²	mm ²	mm ²			mm	mm	mm	mm	Kg/km	kN	Ohm/km
09AB011109	16	17	18.4	3.07	21.5	6	1	1.98	1.98	1.98	5.93	74.4	8.81	1.7934
09AB011110	25	17	28.8	4.80	33.6	6	1	2.47	2.47	2.47	7.41	116.2	13.62	1.1478
09AB011111	40	17	46.0	7.67	53.7	6	1	3.13	3.13	3.13	9.38	185.9	21.25	0.7174
09AB011112	63	17	72.5	12.1	84.6	6	1	3.92	3.92	3.92	11.8	292.8	33.48	0.4555
09AB011113	100	6	115	6.39	121	18	1	2.85	2.85	2.85	14.3	366.4	40.79	0.2880
09AB011114	125	6	144	7.99	152	18	1	3.19	3.19	3.19	16.0	458.0	50.43	0.2304
09AB011115	125	16	144	23.4	167	26	7	2.65	2.06	6.19	16.8	579.9	68.22	0.2310
09AB011116	160	6	184	10.2	194	18	1	3.61	3.61	3.61	18.0	586.2	64.56	0.1800
09AB011117	160	16	184	30.0	214	26	7	3.00	2.34	7.01	19.0	742.3	86.42	0.1805
09AB011118	200	6	230	12.8	243	18	1	4.04	4.04	4.04	20.2	732.8	80.69	0.1440
09AB011119	200	16	230	37.5	268	26	7	3.36	2.61	7.83	21.3	927.9	108.02	0.1444
09AB011120	250	10	288	28.3	316	22	7	4.08	2.27	6.80	23.1	1013.5	115.12	0.1154
09AB011121	250	16	288	46.9	335	26	7	3.75	2.92	8.76	23.8	1159.8	135.03	0.1155
09AB011122	315	7	363	25.1	388	45	7	3.20	2.14	6.41	25.6	1196.5	134.52	0.0917
09AB011123	315	16	363	59.0	422	26	7	4.21	3.28	9.83	26.7	1461.4	166.00	0.0917
09AB011124	400	7	460	31.8	492	45	7	3.61	2.41	7.22	28.9	1519.4	169.87	0.0722
09AB011125	400	13	460	59.7	520	54	7	3.29	3.29	9.88	29.7	1738.3	195.49	0.0723
09AB011126	450	7	518	35.8	554	45	7	3.83	2.55	7.66	30.6	1709.3	191.10	0.0642
09AB011127	450	13	518	67.1	585	54	7	3.49	3.49	10.5	31.5	1955.6	219.93	0.0643
09AB011128	500	7	575	39.8	615	45	7	4.04	2.69	8.07	32.3	1899.3	212.33	0.0578
09AB011129	500	13	575	74.6	650	54	7	3.68	3.68	11.1	33.2	2172.9	244.36	0.0578
09AB011130	560	7	645	44.6	689	45	7	4.27	2.85	8.54	34.2	2127.2	237.82	0.0516
09AB011131	560	13	645	81.6	726	54	19	3.90	2.34	11.7	35.1	2420.9	277.49	0.0516
09AB011132	630	4	725	31.3	756	72	7	3.58	2.39	7.16	35.8	2248.0	247.43	0.0459
09AB011133	630	13	725	91.8	817	54	19	4.13	2.48	12.4	37.2	2723.5	312.18	0.0459
09AB011134	710	4	817	35.3	852	72	7	3.80	2.53	7.60	38.0	2533.4	278.85	0.0407
09AB011135	710	13	817	104	921	54	19	4.39	2.63	13.2	39.5	3069.4	351.82	0.0407
09AB011136	800	4	921	39.8	961	72	7	4.04	2.69	8.07	40.4	2854.6	314.19	0.0361
09AB011137	800	8	921	76.7	997	84	7	3.74	3.74	11.2	41.1	3145.1	348.35	0.0362
09AB011138	900	4	1036	44.8	1081	72	7	4.28	2.85	8.56	42.8	3211.4	353.47	0.0321
09AB011139	900	8	1036	86.3	1122	84	7	3.96	3.96	11.9	43.6	3538.3	391.90	0.0322
09AB011140	1000	8	1151	93.7	1245	84	19	4.18	2.51	12.5	45.9	3916.8	439.81	0.0289
09AB011141	1120	8	1289	105	1394	84	19	4.42	2.65	13.3	48.6	4386.8	492.59	0.0258

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All Aluminium Alloy Steel Reinforced

Characteristics of A2/S3A Conductors

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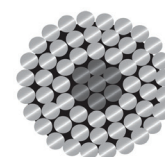
Riyadh Cables Code number	Specifica-tion Code number	Steel ratio	Areas			Number of wires		Wire diam.		Diameter		Linear mass	Rated strength	D.C resistance
			Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
		%	mm ²	mm ²	mm ²			mm	mm	mm	mm	Kg/km	kN	Ohm/km
09A0011E09	16	17	18.4	3.07	21.5	6	1	1.98	1.98	1.98	5.93	74.4	9.88	1.7934
09A0011E10	25	17	28.8	4.80	33.6	6	1	2.47	2.47	2.47	7.41	116.2	15.25	1.1478
09A0011E11	40	17	46.0	7.67	53.7	6	1	3.13	3.13	3.13	9.38	185.9	24.17	0.7174
09A0011E12	63	17	72.5	12.1	84.6	6	1	3.92	3.92	3.92	11.8	292.8	37.58	0.4555
09A0011E13	100	6	115	6.39	121	18	1	2.85	2.85	2.85	14.3	366.4	42.97	0.2880
09A0011E14	125	6	144	7.99	152	18	1	3.19	3.19	3.19	16.0	458.0	53.47	0.2304
09A0011E15	125	16	144	23.4	167	26	7	2.65	2.06	6.19	16.8	579.9	76.42	0.2310
09A0011E16	160	6	184	10.2	194	18	1	3.61	3.61	3.61	18.0	586.2	68.03	0.1800
09A0011E17	160	16	184	30.0	214	26	7	3.00	2.34	7.01	19.0	742.3	96.61	0.1805
09A0011E18	200	6	230	12.8	243	18	1	4.04	4.04	4.04	20.2	732.8	85.04	0.1440
09A0011E19	200	16	230	37.5	268	26	7	3.36	2.61	7.83	21.3	927.9	120.77	0.1444
09A0011E20	250	10	288	28.3	316	22	7	4.08	2.27	6.80	23.1	1013.5	124.72	0.1154
09A0011E21	250	16	288	46.9	335	26	7	3.75	2.92	8.76	23.8	1159.8	150.96	0.1155
09A0011E22	315	7	363	25.1	388	45	7	3.20	2.14	6.41	25.6	1196.5	143.30	0.0917
09A0011E23	315	16	363	59.0	422	26	7	4.21	3.28	9.83	26.7	1461.4	188.44	0.0917
09A0011E24	400	7	460	31.8	492	45	7	3.61	2.41	7.22	28.9	1519.4	180.69	0.0722
09A0011E25	400	13	460	59.7	520	54	7	3.29	3.29	9.88	29.7	1738.3	218.17	0.0723
09A0011E26	450	7	518	35.8	554	45	7	3.83	2.55	7.66	30.6	1709.0	203.28	0.0642
09A0011E27	450	13	518	67.1	585	54	7	3.49	3.49	10.5	31.5	1955.6	245.44	0.0643
09A0011E28	500	7	575	39.8	615	45	7	4.04	2.69	8.07	32.3	1899.3	225.86	0.0578
09A0011E29	500	13	575	74.6	650	54	7	3.68	3.68	11.1	33.2	2172.9	269.73	0.0578
09A0011E30	560	7	645	44.6	689	45	7	4.27	2.85	8.54	34.2	2127.2	252.97	0.0516
09A0011E31	560	13	645	81.6	726	54	19	3.90	2.34	11.7	35.1	2420.9	305.25	0.0516
09A0011E32	630	4	725	31.3	756	72	7	3.58	2.39	7.16	35.8	2248.0	258.08	0.0459
09A0011E33	630	13	725	91.8	817	54	19	4.13	2.48	12.4	37.2	2723.5	343.40	0.0459
09A0011E34	710	4	817	35.3	852	72	7	3.80	2.53	7.60	38.0	2533.4	290.85	0.0407
09A0011E35	710	13	817	104	921	54	19	4.39	2.63	13.2	39.5	3069.4	387.01	0.0407
09A0011E36	800	4	921	39.8	961	72	7	4.04	2.69	8.07	40.4	2854.6	327.72	0.0361
09A0011E37	800	8	921	76.7	997	84	7	3.74	3.74	11.2	41.1	3145.1	374.44	0.0362
09A0011E38	900	4	1036	44.8	1081	72	7	4.28	2.85	8.56	42.8	3211.4	368.69	0.0321
09A0011E39	900	8	1036	86.3	1122	84	7	3.96	3.96	11.9	43.6	3538.3	421.25	0.0322
09A0011E40	1000	8	1151	93.7	1245	84	19	4.18	2.51	12.5	45.9	3916.8	471.67	0.0289
09A0011E41	1120	8	1289	105	1394	84	19	4.42	2.65	13.3	48.6	4386.8	528.27	0.0258

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All Aluminium Alloy Steel Reinforced

Characteristics of A3/S1A Conductors

IEC 61089



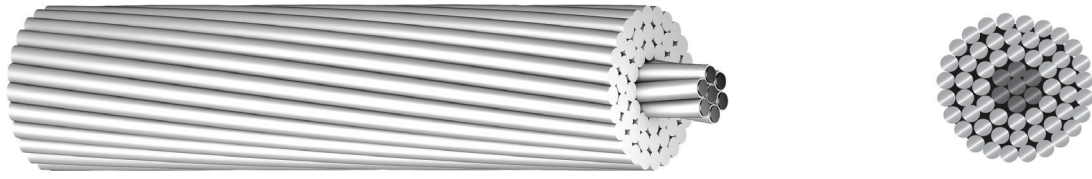
Riyadh Cables Code number	Specification Code number	Steel ratio	Area			Number of wires		Wire di am		Diameter		Linear mass	Rated strength	D.C resistance
			Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
		%	mm ²	mm ²	mm ²			mm	mm	mm	mm	Kg/km	kN	Ohm/km
09A0010109	16	17	18.6	3.10	21.7	6	1	1.99	1.99	1.99	5.96	75.1	9.67	1.7934
09A0010110	25	17	29.0	4.84	33.9	6	1	2.48	2.48	2.48	7.45	117.3	14.96	1.1478
09A0010111	40	17	46.5	7.75	54.2	6	1	3.14	3.14	3.14	9.42	187.7	23.63	0.7174
09A0010112	63	17	73.2	12.2	85.4	6	1	3.94	3.94	3.94	11.8	295.6	36.48	0.4555
09A0010113	100	6	116	6.46	123	18	1	2.87	2.87	2.87	14.3	369.9	45.12	0.2880
09A0010114	125	6	145	8.07	153	18	1	3.21	3.21	3.21	16.0	462.3	56.08	0.2304
09A0010115	125	16	145	23.7	169	26	7	2.67	2.07	6.22	16.9	585.4	74.88	0.2310
09A0010116	160	6	186	10.3	196	18	1	3.63	3.63	3.63	18.1	591.8	69.92	0.1800
09A0010117	160	16	186	30.3	216	26	7	3.02	2.35	7.04	19.1	749.4	94.94	0.1805
09A0010118	200	6	232	12.9	245	18	1	4.05	4.05	4.05	20.3	739.8	87.40	0.1440
09A0010119	200	16	232	37.8	270	26	7	3.37	2.62	7.87	21.4	936.7	118.67	0.1444
09A0010120	250	10	290	28.5	319	22	7	4.10	2.28	6.83	23.2	1023.2	124.02	0.1154
09A0010121	250	16	290	47.3	338	26	7	3.77	2.93	8.80	23.9	1170.9	145.43	0.1155
09A0010122	315	7	366	25.3	391	45	7	3.22	2.15	6.44	25.7	1207.9	148.56	0.0917
09A0010123	315	16	366	59.6	426	26	7	4.23	3.29	9.88	26.8	1475.3	180.86	0.0917
09A0010124	400	7	465	32.1	497	45	7	3.63	2.42	7.25	29.0	1533.9	183.03	0.0722
09A0010125	400	13	465	60.2	525	54	7	3.31	3.31	9.93	29.8	1754.9	217.32	0.0723
09A0010126	450	7	523	36.1	559	45	7	3.85	2.56	7.69	30.8	1725.6	205.91	0.0642
09A0010127	450	13	523	67.8	591	54	7	3.51	3.51	10.5	31.6	1974.2	239.26	0.0643
09A0010128	500	7	581	40.2	621	45	7	4.05	2.70	8.11	32.4	1917.3	228.79	0.0578
09A0010129	500	13	581	75.3	656	54	7	3.70	3.70	11.1	33.3	2193.6	265.84	0.0578
09A0010130	560	7	651	45.0	696	45	7	4.29	2.86	8.58	34.3	2147.4	256.24	0.0516
09A0010131	560	13	651	82.4	733	54	19	3.92	2.35	11.8	35.3	2444.0	298.92	0.0516
09A0010132	630	4	732	31.6	764	72	7	3.60	2.40	7.20	36.0	2269.4	266.64	0.0459
09A0010133	630	13	732	92.7	825	54	19	4.15	2.49	12.5	37.4	2749.5	336.28	0.0459
09A0010134	710	4	825	35.6	861	72	7	3.82	2.55	7.64	38.2	2557.6	300.50	0.0407
09A0010135	710	13	825	104	929	54	19	4.41	2.65	13.2	39.7	3098.6	378.98	0.0407
09A0010136	800	4	930	40.2	970	72	7	4.05	2.70	8.11	40.5	2881.8	338.59	0.0361
09A0010137	800	8	930	77.5	1007	84	7	3.75	3.75	11.3	41.3	3175.1	378.01	0.0362
09A0010138	900	4	1046	45.2	1091	72	7	4.30	2.87	8.60	43.0	3242.0	380.91	0.0321
09A0010139	900	8	1046	87.1	1133	84	7	3.98	3.98	11.9	43.8	3572.0	425.26	0.0322
09A0010140	1000	8	1162	94.6	1257	84	19	4.20	2.52	12.6	46.2	3954.1	473.86	0.0289
09A0010141	1120	8	1301	106	1407	84	19	4.44	2.66	13.3	48.9	4428.6	530.72	0.0258

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All Aluminium Alloy Steel Reinforced

Characteristics of A3/S1B Conductors

IEC 61089



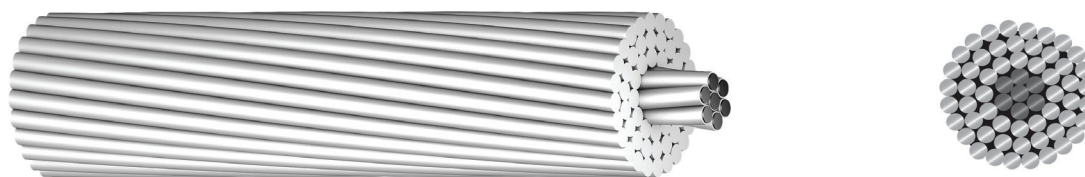
Riyadh Cables Code number	Specification Code number	Steel ratio	Areas			Number of wires		Wire di am		Diameter		Linear mass	Rated strength	D.C resistance
			Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
		%	mm ²	mm ²	mm ²			mm	mm	mm	mm	Kg/km	kN	Ohm/km
09AB010109	16	17	18.6	3.10	21.7	6	1	1.99	1.99	1.99	5.96	75.1	9.45	1.7934
09AB010110	25	17	29.0	4.84	33.9	6	1	2.48	2.48	2.48	7.45	117.3	14.62	1.1478
09AB010111	40	17	46.5	7.75	54.2	6	1	3.14	3.14	3.14	9.42	187.7	22.85	0.7174
09AB010112	63	17	73.2	12.2	85.4	6	1	3.94	3.94	3.94	11.8	295.6	35.26	0.4555
09AB010113	100	6	116	6.46	123	18	1	2.87	2.87	2.87	14.3	369.9	44.67	0.2880
09AB010114	125	6	145	8.07	153	18	1	3.21	3.21	3.21	16.0	462.3	55.27	0.2304
09AB010115	125	16	145	23.7	169	26	7	2.67	2.07	6.22	16.9	585.4	73.22	0.2310
09AB010116	160	6	186	10.3	196	18	1	3.63	3.63	3.63	18.1	591.8	68.89	0.1800
09AB010117	160	16	186	30.3	216	26	7	3.02	2.35	7.04	19.1	749.4	92.82	0.1805
09AB010118	200	6	232	12.9	245	18	1	4.05	4.05	4.05	20.3	739.8	86.11	0.1440
09AB010119	200	16	232	37.8	270	26	7	3.37	2.62	7.87	21.4	936.7	116.02	0.1444
09AB010120	250	10	290	28.5	319	22	7	4.10	2.28	6.83	23.2	1023.2	122.02	0.1154
09AB010121	250	16	290	47.3	338	26	7	3.77	2.93	8.80	23.9	1170.9	142.12	0.1155
09AB010122	315	7	366	25.3	391	45	7	3.22	2.15	6.44	25.7	1207.9	146.78	0.0917
09AB010123	315	16	366	59.6	426	26	7	4.23	3.29	9.88	26.8	1475.3	174.90	0.0917
09AB010124	400	7	465	32.1	497	45	7	3.63	2.42	7.25	29.0	1533.9	180.78	0.0722
09AB010125	400	13	465	60.2	525	54	7	3.31	3.31	9.93	29.8	1754.9	211.29	0.0723
09AB010126	450	7	523	36.1	559	45	7	3.85	2.56	7.69	30.8	1725.6	203.38	0.0642
09AB010127	450	13	523	67.8	591	54	7	3.51	3.51	10.5	31.6	1974.2	232.48	0.0643
09AB010128	500	7	581	40.2	621	45	7	4.05	2.70	8.11	32.4	1917.3	225.98	0.0578
09AB010129	500	13	581	75.3	656	54	7	3.70	3.70	11.1	33.3	2193.6	258.31	0.0578
09AB010130	560	7	651	45.0	696	45	7	4.29	2.86	8.58	34.3	2147.4	253.09	0.0516
09AB010131	560	13	651	82.4	733	54	19	3.92	2.35	11.8	35.3	2444.0	293.15	0.0516
09AB010132	630	4	732	31.6	764	72	7	3.60	2.40	7.20	36.0	2269.4	264.42	0.0459
09AB010133	630	13	732	92.7	825	54	19	4.15	2.49	12.5	37.4	2749.5	329.79	0.0459
09AB010134	710	4	825	35.6	861	72	7	3.82	2.55	7.64	38.2	2557.6	298.00	0.0407
09AB010135	710	13	825	104	929	54	19	4.41	2.65	13.2	39.7	3098.6	371.67	0.0407
09AB010136	800	4	930	40.2	970	72	7	4.05	2.70	8.11	40.5	2881.8	335.78	0.0361
09AB010137	800	8	930	77.5	1007	84	7	3.75	3.75	11.3	41.3	3175.1	370.26	0.0362
09AB010138	900	4	1046	45.2	1091	72	7	4.30	2.87	8.60	43.0	3242.0	377.75	0.0321
09AB010139	900	8	1046	87.1	1133	84	7	3.98	3.98	11.9	43.8	3572.0	416.54	0.0322
09AB010140	1000	8	1162	94.6	1257	84	19	4.20	2.52	12.6	46.2	3954.1	467.24	0.0289
09AB010141	1120	8	1301	106	1407	84	19	4.44	2.66	13.3	48.9	4428.6	523.30	0.0258

AACSR

All Aluminium Alloy Steel Reinforced

Characteristics of A3/S3A Conductors

IEC 61089

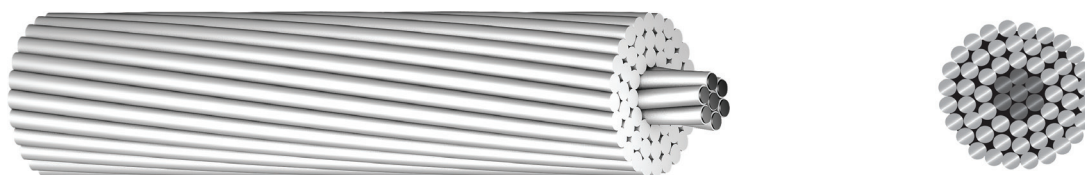


Riyadh Cables Code number	Specification Code number	Steel ratio	Areas			Number of wires		Wire diam.		Diameter		Linear mass	Rated strength	D.C resistance
			Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
		%	mm ²	mm ²	mm ²			mm	mm	mm	mm	Kg/km	kN	Ohm/km
09A0010E09	16	17	18.6	3.10	21.7	6	1	1.99	1.99	1.99	5.96	75.1	10.53	1.7934
09A0010E10	25	17	29.0	4.84	33.9	6	1	2.48	2.48	2.48	7.45	117.3	16.27	1.1478
09A0010E11	40	17	46.5	7.75	54.2	6	1	3.14	3.14	3.14	9.42	187.7	25.79	0.7174
09A0010E12	63	17	73.2	12.2	85.4	6	1	3.94	3.94	3.94	11.8	295.6	39.41	0.4555
09A0010E13	100	6	116	6.46	123	18	1	2.87	2.87	2.87	14.3	369.9	46.86	0.2880
09A0010E14	125	6	145	8.07	153	18	1	3.21	3.21	3.21	16.0	462.3	58.34	0.2304
09A0010E15	125	16	145	23.7	169	26	7	2.67	2.07	6.22	16.9	585.4	81.50	0.2310
09A0010E16	160	6	186	10.3	196	18	1	3.63	3.63	3.63	18.1	591.8	72.40	0.1800
09A0010E17	160	16	186	30.3	216	26	7	3.02	2.35	7.04	19.1	749.4	103.11	0.1805
09A0010E18	200	6	232	12.9	245	18	1	4.05	4.05	4.05	20.3	739.8	90.50	0.1440
09A0010E19	200	16	232	37.8	270	26	7	3.37	2.62	7.87	21.4	936.7	128.89	0.1444
09A0010E20	250	10	290	28.5	319	22	7	4.10	2.28	6.83	23.2	1023.2	131.72	0.1154
09A0010E21	250	16	290	47.3	338	26	7	3.77	2.93	8.80	23.9	1170.9	158.21	0.1155
09A0010E22	315	7	366	25.3	391	45	7	3.22	2.15	6.44	25.7	1207.9	155.64	0.0917
09A0010E23	315	16	366	59.6	426	26	7	4.23	3.29	9.88	26.8	1475.3	197.55	0.0917
09A0010E24	400	7	465	32.1	497	45	7	3.63	2.42	7.25	29.0	1533.9	191.71	0.0722
09A0010E25	400	13	465	60.2	525	54	7	3.31	3.31	9.93	29.8	1754.9	234.19	0.0723
09A0010E26	450	7	523	36.1	559	45	7	3.85	2.56	7.69	30.8	1725.6	215.67	0.0642
09A0010E27	450	13	523	67.8	591	54	7	3.51	3.51	10.5	31.6	1974.2	255.52	0.0643
09A0010E28	500	7	581	40.2	621	45	7	4.05	2.70	8.11	32.4	1917.3	239.63	0.0578
09A0010E29	500	13	581	75.3	656	54	7	3.70	3.70	11.1	33.3	2193.6	283.91	0.0578
09A0010E30	560	7	651	45.0	696	45	7	4.29	2.86	8.58	34.3	2147.4	268.39	0.0516
09A0010E31	560	13	651	82.4	733	54	19	3.92	2.35	11.8	35.3	2444.0	321.17	0.0516
09A0010E32	630	4	732	31.6	764	72	7	3.60	2.40	7.20	36.0	2269.4	275.18	0.0459
09A0010E33	630	13	732	92.7	825	54	19	4.15	2.49	12.5	37.4	2749.5	361.32	0.0459
09A0010E34	710	4	825	35.6	861	72	7	3.82	2.55	7.64	38.2	2557.6	310.12	0.0407
09A0010E35	710	13	825	104	929	54	19	4.41	2.65	13.2	39.7	3098.6	407.20	0.0407
09A0010E36	800	4	930	40.2	970	72	7	4.05	2.70	8.11	40.5	2881.8	349.43	0.0361
09A0010E37	800	8	930	77.5	1007	84	7	3.75	3.75	11.3	41.3	3175.1	396.60	0.0362
09A0010E38	900	4	1046	45.2	1091	72	7	4.30	2.87	8.60	43.0	3242.0	393.11	0.0321
09A0010E39	900	8	1046	87.1	1133	84	7	3.98	3.98	11.9	43.8	3572.0	446.17	0.0322
09A0010E40	1000	8	1162	94.6	1257	84	19	4.20	2.52	12.6	46.2	3954.1	499.40	0.0289
09A0010E41	1120	8	1301	106	1407	84	19	4.44	2.66	13.3	48.9	4428.6	559.33	0.0258

ACSR

Aluminium Conductors Steel Reinforced
Characteristics of A1/S1A Conductors

IEC 61089

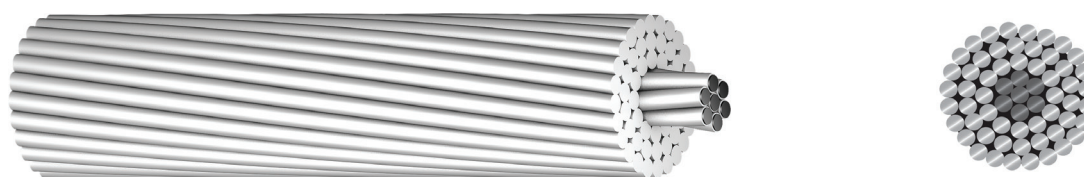


Riyadh Cables Code number	Specifica- tion Code number	Steel ratio	Areas			Number of wires		Wire di am.		Diameter		Linear mass	Rated strength	D.C resistance
			Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
		%	mm ²	mm ²	mm ²			mm	mm	mm	mm	Kg/km	kN	Ohm/km
0950010109	16	17	16	2.67	18.7	6	1	1.84	1.84	1.84	5.53	64.6	6.08	1.7934
0950010110	25	17	25	4.17	29.2	6	1	2.30	2.30	2.30	6.91	100.9	9.13	1.1478
0950010111	40	17	40	6.67	46.7	6	1	2.91	2.91	2.91	8.74	161.5	14.40	0.7174
0950010112	63	17	63	10.5	73.5	6	1	3.66	3.66	3.66	11.0	254.4	21.63	0.4555
0950010113	100	17	100	16.7	117	6	1	4.61	4.61	4.61	13.8	403.8	34.33	0.2869
0950010114	125	6	125	6.94	132	18	1	2.97	2.97	2.97	14.9	397.9	29.17	0.2304
0950010115	125	16	125	20.4	145	26	7	2.47	1.92	5.77	15.7	503.9	45.69	0.2310
0950010116	160	6	160	8.89	169	18	1	3.36	3.36	3.36	16.8	509.3	36.18	0.1800
0950010117	160	16	160	26.1	186	26	7	2.80	2.18	6.53	17.7	644.9	57.69	0.1805
0950010118	200	6	200	11.1	211	18	1	3.76	3.76	3.76	18.8	636.7	44.22	0.1440
0950010119	200	16	200	32.6	233	26	7	3.13	2.43	7.30	19.8	806.2	70.13	0.1444
0950010120	250	10	250	24.6	275	22	7	3.80	2.11	6.34	21.6	880.6	68.72	0.1154
0950010121	250	16	250	40.7	291	26	7	3.50	2.72	8.16	22.2	1007.7	87.67	0.1155
0950010122	315	7	315	21.8	337	45	7	2.99	1.99	5.97	23.9	1039.6	79.03	0.0917
0950010123	315	16	315	51.3	366	26	7	3.93	3.05	9.16	24.9	1269.7	106.83	0.0917
0950010124	400	7	400	27.7	428	45	7	3.36	2.24	6.73	26.9	1320.1	98.36	0.0722
0950010125	400	13	400	51.9	452	54	7	3.07	3.07	9.21	27.6	1510.3	123.04	0.0723
0950010126	450	7	450	31.1	481	45	7	3.57	2.38	7.14	28.5	1485.2	107.47	0.0642
0950010127	450	13	450	58.3	508	54	7	3.26	3.26	9.77	29.3	1699.1	138.42	0.0643
0950010128	500	7	500	34.6	535	45	7	3.76	2.51	7.52	30.1	1650.2	119.41	0.0578
0950010129	500	13	500	64.8	565	54	7	3.43	3.43	10.3	30.9	1887.9	153.80	0.0578
0950010130	560	7	560	38.7	599	45	7	3.98	2.65	7.96	31.8	1848.2	133.74	0.0516
0950010131	560	13	560	70.9	631	54	19	3.63	2.18	10.9	32.7	2103.4	172.59	0.0516
0950010132	630	7	630	43.6	674	45	7	4.22	2.81	8.44	33.8	2079.2	150.45	0.0459
0950010133	630	13	630	79.8	710	54	19	3.85	2.31	11.6	34.7	2366.3	191.77	0.0459
0950010134	710	7	710	49.1	759	45	7	4.48	2.99	8.96	35.9	2343.2	169.56	0.0407
0950010135	710	13	710	89.9	800	54	19	4.09	2.45	12.3	36.8	2666.8	216.12	0.0407
0950010136	800	4	800	34.6	835	72	7	3.76	2.51	7.52	37.6	2480.2	167.41	0.0361
0950010137	800	8	800	66.7	867	84	7	3.48	3.48	10.4	38.3	2732.7	205.33	0.0362
0950010138	800	13	800	101	901	54	19	4.44	2.61	13.0	39.1	3004.9	243.52	0.0362
0950010139	900	4	900	38.9	939	72	7	3.99	2.66	7.98	39.9	2790.2	188.33	0.0321
0950010140	900	8	900	75.0	975	84	7	3.69	3.69	11.1	40.6	3074.2	226.50	0.0322
0950010141	1000	4	1000	43.2	1043	72	7	4.21	2.80	8.41	42.1	3100.3	209.26	0.0289
0950010142	1120	4	1120	47.3	1167	72	19	4.45	1.78	8.90	44.5	3464.9	234.53	0.0258
0950010143	1120	8	1120	91.2	1211	84	19	4.12	2.47	12.4	45.3	3811.5	283.17	0.0258
0950010144	1250	8	1250	102	1352	84	19	4.35	2.61	13.1	47.9	4253.9	316.04	0.0232
0950010145	1250	4	1250	52.8	1303	72	19	4.70	1.88	9.40	47.0	3867.1	261.75	0.0231

ACSR

Aluminium Conductors Steel Reinforced
Characteristics of A1/S1B Conductors

IEC 61089

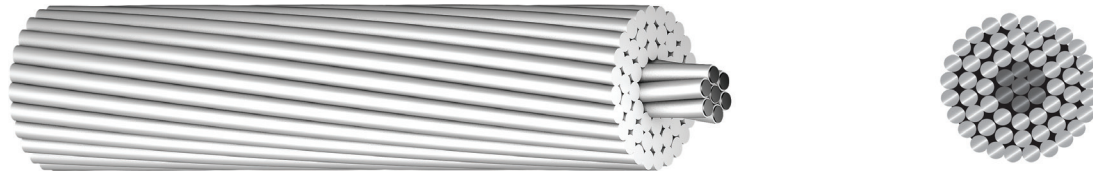


Riyadh Cables Code number	Specifica- tion Code number	Steel ratio	Areas			Number of wires		Wire di am.		Diameter		Linear mass	Rated strength	D.C resistance
			Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
		%	mm ²	mm ²	mm ²			mm	mm	mm	mm	Kg/km	kN	Ohm/km
095B010109	16	17	16	2.67	18.7	6	1	1.84	1.84	1.84	5.53	64.6	5.89	1.7934
095B010110	25	17	25	4.17	29.2	6	1	2.30	2.30	2.30	6.91	100.9	8.83	1.1478
095B010111	40	17	40	6.67	46.7	6	1	2.91	2.91	2.91	8.74	161.5	13.93	0.7174
095B010112	63	17	63	10.5	73.5	6	1	3.66	3.66	3.66	11.0	254.4	20.58	0.4555
095B010113	100	17	100	16.7	117	6	1	4.61	4.61	4.61	13.8	403.8	32.67	0.2869
095B010114	125	6	125	6.94	132	18	1	2.97	2.97	2.97	14.9	397.9	28.68	0.2304
095B010115	125	16	125	20.4	145	26	7	2.47	1.92	5.77	15.7	503.9	44.27	0.2310
095B010116	160	6	160	8.89	169	18	1	3.36	3.36	3.36	16.8	509.3	35.29	0.1800
095B010117	160	16	160	26.1	186	26	7	2.80	2.18	6.53	17.7	644.9	55.86	0.1805
095B010118	200	6	200	11.1	211	18	1	3.76	3.76	3.76	18.8	636.7	43.11	0.1440
095B010119	200	16	200	32.6	233	26	7	3.13	2.43	7.30	19.8	806.2	67.85	0.1444
095B010120	250	10	250	24.6	275	22	7	3.80	2.11	6.34	21.6	880.6	67.01	0.1154
095B010121	250	16	250	40.7	291	26	7	3.50	2.72	8.16	22.2	1007.7	84.82	0.1155
095B010122	315	7	315	21.8	337	45	7	2.99	1.99	5.97	23.9	1039.6	77.51	0.0917
095B010123	315	16	315	51.3	366	26	7	3.93	3.05	9.16	24.9	1269.7	101.70	0.0917
095B010124	400	7	400	27.7	428	45	7	3.36	2.24	6.73	26.9	1320.1	96.42	0.0722
095B010125	400	13	400	51.9	452	54	7	3.07	3.07	9.21	27.6	1510.3	117.85	0.0723
095B010126	450	7	450	31.1	481	45	7	3.57	2.38	7.14	28.5	1485.2	105.29	0.0642
095B010127	450	13	450	58.3	508	54	7	3.26	3.26	9.77	29.3	1699.1	132.58	0.0643
095B010128	500	7	500	34.6	535	45	7	3.76	2.51	7.52	30.1	1650.2	116.99	0.0578
095B010129	500	13	500	64.8	565	54	7	3.43	3.43	10.3	30.9	1887.9	147.31	0.0578
095B010130	560	7	560	38.7	599	45	7	3.98	2.65	7.96	31.8	1848.2	131.03	0.0516
095B010131	560	13	560	70.9	631	54	19	3.63	2.18	10.9	32.7	2103.4	167.63	0.0516
095B010132	630	7	630	43.6	674	45	7	4.22	2.81	8.44	33.8	2079.2	147.40	0.0459
095B010133	630	13	630	79.8	710	54	19	3.85	2.31	11.6	34.7	2366.3	186.19	0.0459
095B010134	710	7	710	49.1	759	45	7	4.48	2.99	8.96	35.9	2343.2	166.12	0.0407
095B010135	710	13	710	89.9	800	54	19	4.09	2.45	12.3	36.8	2666.8	209.83	0.0407
095B010136	800	4	800	34.6	835	72	7	3.76	2.51	7.52	37.6	2480.2	164.99	0.0361
095B010137	800	8	800	66.7	867	84	7	3.48	3.48	10.4	38.3	2732.7	198.67	0.0362
095B010138	800	13	800	101	901	54	19	4.34	2.61	13.0	39.1	3004.9	236.43	0.0362
095B010139	900	4	900	38.9	939	72	7	3.99	2.66	7.98	39.9	2790.2	185.61	0.0321
095B010140	900	8	900	75.0	975	84	7	3.69	3.69	11.1	40.6	3074.2	219.00	0.0322
095B010141	1000	4	1000	43.2	1043	72	7	4.21	2.80	8.41	42.1	3100.3	206.23	0.0289
095B010142	1120	4	1120	47.3	1167	72	19	4.45	1.78	8.90	44.5	3464.9	231.22	0.0258
095B010143	1120	8	1120	91.2	1211	84	19	4.12	2.47	12.4	45.3	3811.5	276.78	0.0258
095B010144	1250	4	1250	52.8	1303	72	19	4.70	1.88	9.40	47.0	3867.1	258.06	0.0231
095B010145	1250	8	1250	102	1352	84	19	4.35	2.61	13.1	47.9	4253.9	308.91	0.0232

ACSR

Aluminium Conductors Steel Reinforced
Characteristics of A1/S2A Conductors

IEC 61089

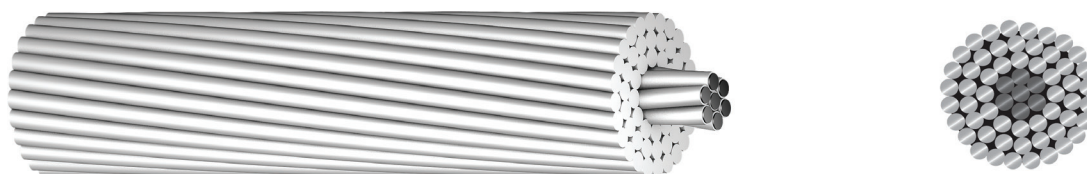


Riyadh Cables Code number	Specifica- tion Code number	Steel ratio	Areas			Number of wires		Wire diam.		Diameter		Linear mass	Rated strength	D.C resistance
			Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
		%	mm ²	mm ²	mm ²			mm	mm	mm	mm	Kg/km	kN	Ohm/km
0950010H09	16	17	16	2.67	18.7	6	1	1.84	1.84	1.84	5.53	64.6	6.45	1.7934
0950010H10	25	17	25	4.17	29.2	6	1	2.30	2.30	2.30	6.91	100.9	9.71	1.1478
0950010H11	40	17	40	6.67	46.7	6	1	2.91	2.91	2.91	8.74	161.5	15.33	0.7174
0950010H12	63	17	63	10.5	73.5	6	1	3.66	3.66	3.66	11.0	254.4	22.37	0.4555
0950010H13	100	17	100	16.7	117	6	1	4.61	4.61	4.61	13.8	403.8	35.50	0.2869
0950010H14	125	6	125	6.94	132	18	1	2.97	2.97	2.97	14.9	397.9	30.14	0.2304
0950010H15	125	16	125	20.4	145	26	7	2.47	1.92	5.77	15.7	503.9	48.54	0.2310
0950010H16	160	6	160	8.89	169	18	1	3.36	3.36	3.36	16.8	509.3	37.42	0.1800
0950010H17	160	16	160	26.1	186	26	7	2.80	2.18	6.53	17.7	644.9	61.34	0.1805
0950010H18	200	6	200	11.1	211	18	1	3.76	3.76	3.76	18.8	636.7	45.00	0.1440
0950010H19	200	16	200	32.6	233	26	7	3.13	2.43	7.30	19.8	806.2	74.69	0.1444
0950010H20	250	10	250	24.6	275	22	7	3.80	2.11	6.34	21.6	880.6	72.16	0.1154
0950010H21	250	16	250	40.7	291	26	7	3.50	2.72	8.16	22.2	1007.7	93.37	0.1155
0950010H22	315	7	315	21.8	337	45	7	2.99	1.99	5.97	23.9	1039.6	82.08	0.0917
0950010H23	315	16	315	51.3	366	26	7	3.93	3.05	9.16	24.9	1269.7	114.02	0.0917
0950010H24	400	7	400	27.7	428	45	7	3.36	2.24	6.73	26.9	1320.1	102.23	0.0722
0950010H25	400	13	400	51.9	452	54	7	3.07	3.07	9.21	27.6	1510.3	130.30	0.0723
0950010H26	450	7	450	31.1	481	45	7	3.57	2.38	7.14	28.5	1485.2	111.82	0.0642
0950010H27	450	13	450	58.3	508	54	7	3.26	3.26	9.77	29.3	1699.1	146.58	0.0643
0950010H28	500	7	500	34.6	535	45	7	3.76	2.51	7.52	30.1	1650.2	124.25	0.0578
0950010H29	500	13	500	64.8	565	54	7	3.43	3.43	10.3	30.9	1887.9	162.37	0.0578
0950010H30	560	7	560	38.7	599	45	7	3.98	2.65	7.96	31.8	1848.2	139.16	0.0516
0950010H31	560	13	560	70.9	631	54	19	3.63	2.18	10.9	32.7	2103.4	182.52	0.0516
0950010H32	630	7	630	43.6	674	45	7	4.22	2.81	8.44	33.8	2079.2	156.55	0.0459
0950010H33	630	13	630	79.8	710	54	19	3.85	2.31	11.6	34.7	2366.3	202.94	0.0459
0950010H34	710	7	710	49.1	759	45	7	4.48	2.99	8.96	35.9	2343.2	176.43	0.0407
0950010H35	710	13	710	89.9	800	54	19	4.09	2.45	12.3	36.8	2666.8	228.71	0.0407
0950010H36	800	4	800	34.6	835	72	7	3.76	2.51	7.52	37.6	2480.2	172.25	0.0361
0950010H37	800	8	800	66.7	867	84	7	3.48	3.48	10.4	38.3	2732.7	214.67	0.0362
0950010H38	800	13	800	101	901	54	19	4.34	2.61	13.0	39.1	3004.9	257.71	0.0362
0950010H39	900	4	900	38.9	939	72	7	3.99	2.66	7.98	39.9	2790.2	193.78	0.0321
0950010H40	900	8	900	75.0	975	84	7	3.69	3.69	11.1	40.6	3074.2	231.75	0.0322
0950010H41	1000	4	1000	43.2	1043	72	7	4.21	2.80	8.41	42.1	3100.3	215.31	0.0289
0950010H42	1120	4	1120	47.3	1167	72	19	4.45	1.78	8.90	44.5	3464.9	241.15	0.0258
0950010H43	1120	8	1120	91.2	1211	84	19	4.12	2.47	12.4	45.3	3811.5	295.94	0.0258
0950010H44	1250	4	1250	52.8	1303	72	19	4.70	1.88	9.40	47.0	3867.1	269.14	0.0231
0950010H45	1250	8	1250	102	1352	84	19	4.35	2.61	13.1	47.9	4253.9	330.29	0.0232

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Aluminium Conductors Steel Reinforced
Characteristics of A1/S2B Conductors

IEC 61089

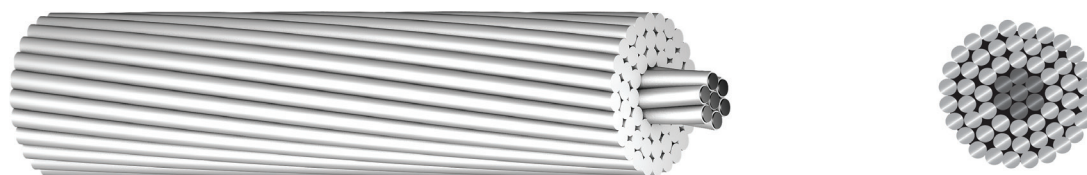


Riyadh Cables Code number	Specification Code number	Steel ratio	Areas			Number of wires		Wire diam.		Diameter		Linear mass	Rated strength	D.C resistance
			Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
		%	mm ²	mm ²	mm ²			mm	mm	mm	mm	Kg/km	kN	Ohm/km
095B010H09	16	17	16	2.67	18.7	6	1	1.84	1.84	1.84	5.53	64.6	6.27	1.7934
095B010H10	25	17	25	4.17	29.2	6	1	2.30	2.30	2.30	6.91	100.9	9.42	1.1478
095B010H11	40	17	40	6.67	46.7	6	1	2.91	2.91	2.91	8.74	161.5	14.87	0.7174
095B010H12	63	17	63	10.5	73.5	6	1	3.66	3.66	3.66	11.0	254.4	21.63	0.4555
095B010H13	100	17	100	16.7	117	6	1	4.61	4.61	4.61	13.8	403.8	34.33	0.2869
095B010H14	125	6	125	6.94	132	18	1	2.97	2.97	2.97	14.9	397.9	29.65	0.2304
095B010H15	125	16	125	20.4	145	26	7	2.47	1.92	5.77	15.7	503.9	47.12	0.2310
095B010H16	160	6	160	8.89	169	18	1	3.36	3.36	3.36	16.8	509.3	36.80	0.1800
095B010H17	160	16	160	26.1	186	26	7	2.80	2.18	6.53	17.7	644.9	59.51	0.1805
095B010H18	200	6	200	11.1	211	18	1	3.76	3.76	3.76	18.8	636.7	44.22	0.1440
095B010H19	200	16	200	32.6	233	26	7	3.13	2.43	7.30	19.8	806.2	72.41	0.1444
095B010H20	250	10	250	24.6	275	22	7	3.80	2.11	6.34	21.6	880.6	70.44	0.1154
095B010H21	250	16	250	40.7	291	26	7	3.50	2.72	8.16	22.2	1007.7	90.52	0.1155
095B010H22	315	7	315	21.8	337	45	7	2.99	1.99	5.97	23.9	1039.6	80.55	0.0917
095B010H23	315	16	315	51.3	366	26	7	3.93	3.05	9.16	24.9	1269.7	110.43	0.0917
095B010H24	400	7	400	27.7	428	45	7	3.36	2.24	6.73	26.9	1320.1	100.29	0.0722
095B010H25	400	13	400	51.9	452	54	7	3.07	3.07	9.21	27.6	1510.3	126.67	0.0723
095B010H26	450	7	450	31.1	481	45	7	3.57	2.38	7.14	28.5	1485.2	109.64	0.0642
095B010H27	450	13	450	58.3	508	54	7	3.26	3.26	9.77	29.3	1699.1	142.50	0.0643
095B010H28	500	7	500	34.6	535	45	7	3.76	2.51	7.52	30.1	1650.2	121.83	0.0578
095B010H29	500	13	500	64.8	565	54	7	3.43	3.43	10.3	30.9	1887.9	158.33	0.0578
095B010H30	560	7	560	38.7	599	45	7	3.98	2.65	7.96	31.8	1848.2	136.45	0.0516
095B010H31	560	13	560	70.9	631	54	19	3.63	2.18	10.9	32.7	2103.4	177.56	0.0516
095B010H32	630	7	630	43.6	674	45	7	4.22	2.81	8.44	33.8	2079.2	153.50	0.0459
095B010H33	630	13	630	79.8	710	54	19	3.85	2.31	11.6	34.7	2366.3	197.36	0.0459
095B010H34	710	7	710	49.1	759	45	7	4.48	2.99	8.96	35.9	2343.2	172.99	0.0407
095B010H35	710	13	710	89.9	800	54	19	4.09	2.45	12.3	36.8	2666.8	222.42	0.0407
095B010H36	800	4	800	34.6	835	72	7	3.76	2.51	7.52	37.6	2480.2	169.83	0.0361
095B010H37	800	8	800	66.7	867	84	7	3.48	3.48	10.4	38.3	2732.7	210.00	0.0362
095B010H38	800	13	800	101	901	54	19	4.34	2.61	13.0	39.1	3004.9	250.61	0.0362
095B010H39	900	4	900	38.9	939	72	7	3.99	2.66	7.98	39.9	2790.2	191.06	0.0321
095B010H40	900	8	900	75.0	975	84	7	3.69	3.69	11.1	40.6	3074.2	226.50	0.0322
095B010H41	1000	4	1000	43.2	1043	72	7	4.21	2.80	8.41	42.1	3100.3	212.28	0.0289
095B010H42	1120	4	1120	47.3	1167	72	19	4.45	1.78	8.90	44.5	3464.9	237.84	0.0258
095B010H43	1120	8	1120	91.2	1211	84	19	4.12	2.47	12.4	45.3	3811.5	289.55	0.0258
095B010H44	1250	4	1250	52.8	1303	72	19	4.70	1.88	9.40	47.0	3867.1	265.44	0.0231
095B010H45	1250	8	1250	102	1352	84	19	4.35	2.61	13.1	47.9	4253.9	323.16	0.0232

ACSR

Aluminium Conductors Steel Reinforced
Characteristics of A1/S3A Conductors

IEC 61089

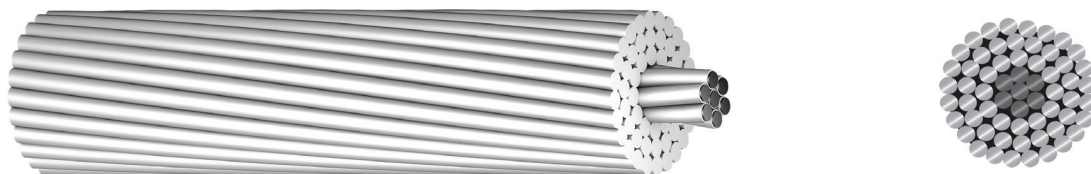


Riyadh Cables Code number	Specifica-tion Code number	Steel ratio	Areas			Number of wires		Wire diam.		Diameter		Linear mass	Rated strength	D.C resistance
			Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
		%	mm ²	mm ²	mm ²			mm	mm	mm	mm	Kg/km	kN	Ohm/km
0950010E09	16	17	16	2.67	18.7	6	1	1.84	1.84	1.84	5.53	64.6	6.83	1.7934
0950010E10	25	17	25	4.17	29.2	6	1	2.30	2.30	2.30	6.91	100.9	10.25	1.1478
0950010E11	40	17	40	6.67	46.7	6	1	2.91	2.91	2.91	8.74	161.5	16.20	0.7174
0950010E12	63	17	63	10.5	73.5	6	1	3.66	3.66	3.66	11.0	254.4	24.15	0.4555
0950010E13	100	17	100	16.7	117	6	1	4.61	4.61	4.61	13.8	403.8	38.33	0.2869
0950010E14	125	6	125	6.94	132	18	1	2.97	2.97	2.97	14.9	397.9	31.04	0.2304
0950010E15	125	16	125	20.4	145	26	7	2.47	1.92	5.77	15.7	503.9	51.39	0.2310
0950010E16	160	6	160	8.89	169	18	1	3.36	3.36	3.36	16.8	509.3	38.67	0.1800
0950010E17	160	16	160	26.1	186	26	7	2.80	2.18	6.53	17.7	644.9	64.99	0.1805
0950010E18	200	6	200	11.1	211	18	1	3.76	3.76	3.76	18.8	636.7	46.89	0.1440
0950010E19	200	16	200	32.6	233	26	7	3.13	2.43	7.30	19.8	806.2	78.93	0.1444
0950010E20	250	10	250	24.6	275	22	7	3.80	2.11	6.34	21.6	880.6	75.60	0.1154
0950010E21	250	16	250	40.7	291	26	7	3.50	2.72	8.16	22.2	1007.7	98.66	0.1155
0950010E22	315	7	315	21.8	337	45	7	2.99	1.99	5.97	23.9	1039.6	85.13	0.0917
0950010E23	315	16	315	51.3	366	26	7	3.93	3.05	9.16	24.9	1269.7	121.20	0.0917
0950010E24	400	7	400	27.7	428	45	7	3.36	2.24	6.73	26.9	1320.1	106.10	0.0722
0950010E25	400	13	400	51.9	452	54	7	3.07	3.07	9.21	27.6	1510.3	137.56	0.0723
0950010E26	450	7	450	31.1	481	45	7	3.57	2.38	7.14	28.5	1485.2	115.87	0.0642
0950010E27	450	13	450	58.3	508	54	7	3.26	3.26	9.77	29.3	1699.1	154.75	0.0643
0950010E28	500	7	500	34.6	535	45	7	3.76	2.51	7.52	30.1	1650.2	128.74	0.0578
0950010E29	500	13	500	64.8	565	54	7	3.43	3.43	10.3	30.9	1887.9	171.94	0.0578
0950010E30	560	7	560	38.7	599	45	7	3.98	2.65	7.96	31.8	1848.2	144.19	0.0516
0950010E31	560	13	560	70.9	631	54	19	3.63	2.18	10.9	32.7	2103.4	192.45	0.0516
0950010E32	630	7	630	43.6	674	45	7	4.22	2.81	8.44	33.8	2079.2	162.21	0.0459
0950010E33	630	13	630	79.8	710	54	19	3.85	2.31	11.6	34.7	2366.3	213.32	0.0459
0950010E34	710	7	710	49.1	759	45	7	4.48	2.99	8.96	35.9	2343.2	182.81	0.0407
0950010E35	710	13	710	89.9	800	54	19	4.09	2.45	12.3	36.8	2666.8	240.41	0.0407
0950010E36	800	4	800	34.6	835	72	7	3.76	2.51	7.52	37.6	2480.2	176.74	0.0361
0950010E37	800	8	800	66.7	867	84	7	3.48	3.48	10.4	38.3	2732.7	224.00	0.0362
0950010E38	800	13	800	101	901	54	19	4.43	2.61	13.0	39.1	3004.9	270.88	0.0362
0950010E39	900	4	900	38.9	939	72	7	3.99	2.66	7.98	39.9	2790.2	198.83	0.0321
0950010E40	900	8	900	75.0	975	84	7	3.69	3.69	11.1	40.6	3074.2	244.50	0.0322
0950010E41	1000	4	1000	43.2	1043	72	7	4.21	2.80	8.41	42.1	3100.3	220.93	0.0289
0950010E42	1120	4	1120	47.3	1167	72	19	4.45	1.78	8.90	44.5	3464.9	247.77	0.0258
0950010E43	1120	8	1120	91.2	1211	84	19	4.12	2.47	12.4	45.3	3811.5	307.79	0.0258
0950010E44	1250	4	1250	52.8	1303	72	19	4.70	1.88	9.40	47.0	3867.1	276.53	0.0231
0950010E45	1250	8	1250	102	1352	84	19	4.35	2.61	13.1	47.9	4253.9	343.52	0.0232

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Aluminium Conductors Steel Reinforced

BS 215 Part 2

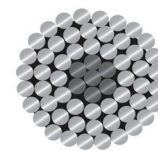


RIYADH CABLES CODE NUMBER	CODE NAME	AREA				STRANDING AND WIRE DIAMETER		APPROX. OVERALL DIAMETER	WEIGHT			NOMINAL BREAKING LOAD	NOMINAL DC RESISTANCE AT 20 DEG.	STANDARD LENGTH
		NOMINAL ALUMINIUM	ALUM.	STEEL	TOTAL	ALUMINIUM	STEEL		ALUM.	STEEL	TOTAL			
		(MM2)	(MM2)	(MM2)	(MM2)	(MM)	(MM)	(MM)	(KG/KM)	(KG/KM)	(KG/KM)	(KN)	(OHM/KM)	(M+/-5%)
0950310101	MOLE	10	10.62	1.77	12.39	6/1.50	1/1.50	4.50	29	14	43	4.14	2.076	3000
0950310102	SQUIRREL	20	20.94	3.49	24.43	6/2.11	1/2.11	6.33	58	27	85	7.88	1.368	3000
0950310103	GOPHER	25	26.25	4.37	30.62	6/2.36	1/2.36	7.08	72	34	106	9.61	1.093	2500
0950310104	WEASEL	30	31.61	5.27	36.88	6/2.59	1/2.59	7.77	87	41	128	11.45	0.9077	2000
0950310105	FOX	35	36.66	6.11	42.77	6/2.79	1/2.79	8.37	101	48	149	13.20	0.7822	2000
0950310106	FERRET	40	42.41	7.07	49.48	6/3.00	1/3.00	9.00	117	55	172	15.20	0.6766	2500
0950310107	RABBIT	50	52.88	8.82	61.70	6/3.35	1/3.35	10.05	145	69	214	18.35	0.5426	2000
0950310108	MINK	60	63.18	10.53	73.71	6/3.66	1/3.66	10.98	173	82	255	21.80	0.4545	3000
0950310109	SKUNK	60	63.27	36.93	100.30	12/2.59	7/2.59	12.95	175	290	465	53.00	0.4567	2500
0950310110	BEAVER	70	74.82	12.47	87.29	6/3.99	1/3.99	11.97	205	97	302	25.70	0.3825	2500
0950310111	HORSE	70	73.37	42.80	116.17	12/2.79	7/2.79	13.95	203	335	538	61.20	0.3936	2000
0950310112	RACCOON	75	79.20	13.20	92.40	6/4.10	1/4.10	12.30	217	103	320	27.20	0.3622	2500
0950310113	OTTER	80	83.88	13.98	97.86	6/4.22	1/4.22	12.66	230	109	339	28.80	0.3419	2500
0950310114	CAT	90	95.40	15.90	111.30	6/4.50	1/4.50	13.50	262	124	386	32.70	0.3007	2000
0950310115	HARE	100	105.0	17.50	122.50	6/4.72	1/4.72	14.16	288	137	425	36.00	0.2733	2000
0950310116	DOG	100	105.0	13.50	118.5	6/4.72	7/1.57	14.15	288	106	394	32.70	0.2733	2000
0950310117	HYENA	100	105.8	20.44	126.2	7/4.39	7/1.93	14.57	290	160	450	40.90	0.2712	2000
0950310118	LEOPARD	125	131.3	16.80	148.1	6/5.28	7/1.75	15.81	360	132	492	40.70	0.2184	2000
0950310119	COYOTE	125	132.1	20.10	152.2	26/2.54	7/1.91	15.89	365	157	522	46.40	0.2187	2000
0950310120	COUGAR	125	130.3	7.25	137.5	18/3.05	1/3.05	15.25	362	57	419	29.80	0.2189	2000

ACSR

Aluminium Conductors Steel Reinforced

BS 215 Part 2

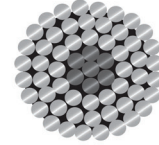


RIYADH CABLES CODE NUMBER	CODE NAME	AREA				STRANDING AND WIRE DIAMETER		APPROX. OVERALL DIAMETER	WEIGHT			NOMINAL BREAKING LOAD (KN)	NOMINAL DC RESISTANCE AT 20 DEG. (OHM/KM)	STANDARD LENGTH (M+/-5%)
		NOMINAL ALUM/STEEL	ALUM.	STEEL	TOTAL	ALUMINIUM	STEEL		ALUM.	STEEL	TOTAL			
		(MM2)	(MM2)	(MM2)	(MM2)									
0950310121	TIGER	125	131.1	30.60	161.7	30/2.36	7/2.36	16.52	362	240	602	58.00	0.2202	2500
0950310122	WOLF	150	158.0	36.90	194.9	30/2.59	7/2.59	18.13	437	289	726	69.20	0.1828	2000
0950310123	DINGO	150	158.7	8.80	167.5	18/3.35	1/3.35	16.75	437	69	506	35.70	0.1815	3000
0950310124	LYNX	175	183.4	42.80	226.2	30/2.79	7/2.79	19.53	507	335	842	79.80	0.1576	2000
0950310125	CARACAL	175	184.2	10.30	194.5	18/3.61	1/3.61	18.05	507	80	587	41.10	0.1563	2500
0950310126	PANTHER	200	212.0	49.50	261.5	30/3.00	7/3.00	21.00	586	388	974	92.25	0.1363	2500
0950310127	LION	225	238.5	55.60	294.2	30/3.18	7/3.18	22.26	659	436	1095	109.60	0.1212	2000
0950310128	BEAR	250	264.0	61.60	325.6	30/3.35	7/3.35	23.45	730	483	1213	111.10	0.1093	2000
0950310129	GOAT	300	324.3	75.70	400.0	30/3.71	7/3.71	25.97	896	593	1489	135.70	0.08910	3000
0950310130	SHEEP	350	374.1	87.30	461.4	30/3.99	7/3.99	27.93	1034	684	1718	155.90	0.07704	2500
0950310131	ANTELOPE	350	373.1	48.40	421.5	54/2.97	7/2.97	26.73	1032	379	1411	118.20	0.07727	2500
0950310132	BISON	350	381.8	49.50	431.3	54/3.00	7/3.00	27.00	1056	388	1444	120.90	0.07573	3000
0950310133	JAGUAR	200	210.6	11.70	222.3	18/3.86	1/3.86	19.30	580	91	671	46.55	0.13670	2000
0950310134	DEER	400	429.3	100.20	529.5	30/4.27	7/4.27	29.89	1186	785	1971	178.50	0.06726	2500
0950310135	ZEBRA	400	428.9	55.60	484.5	54/3.18	7/3.18	28.62	1186	435	1621	131.90	0.06740	2000
0950310136	ELK	450	477.0	111.30	588.3	30/4.50	7/4.50	31.50	1318	872	2190	198.20	0.06056	2000
0950310137	CAMEL	450	475.2	61.60	536.8	54/3.35	7/3.35	30.15	1314	483	1797	145.70	0.06073	2500
0950310138	MOOSE	500	528.7	68.50	597.2	54/3.53	7/3.53	31.77	1462	537	1999	161.10	0.05470	2000

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Aluminium Conductors Steel Reinforced

ASTM B 232

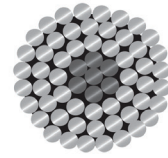


RIYADH CABLES CODE NUMBER	CODE NAME	AREA				STRANDING AND WIRE DIAMETER		APPROX. OVERALL DIAMETER	WEIGHT			NOMINAL BREAKING LOAD (KN)	NOMINAL DC RESISTANCE AT 20 DEG. (OHM/KM)	STANDARD LENGTH (M+/-5%)
		NOMINAL	ALUM.	STEEL	TOTAL	ALUMINIUM	STEEL		ALUM.	STEEL	TOTAL			
		AWGorMCM	(MM2)	(MM2)	(MM2)	(MM)	(MM)	(MM)	(KG/KM)	(KG/KM)	(KG/KM)	(KN)	(OHM/KM)	(M+/-5%)
0950710101	TURKEY	6	13.29	2.19	15.48	6/1.68	1/1.68	5.04	37	17	54	5.24	2.1586	3000
0950710102	SWAN	4	21.16	3.55	24.71	6/2.12	1/2.12	6.36	58	27	85	8.32	1.3557	3000
0950710103	SWANATE	4	21.16	5.35	26.51	7/1.96	1/2.61	6.53	58	42	100	10.53	1.3557	3000
0950710104	SPARROW	2	33.61	5.61	39.22	6/2.67	1/2.67	8.01	92	44	136	12.70	0.8535	3000
0950710105	SPARATE	2	33.61	8.52	42.13	7/2.47	1/3.30	8.24	92	67	159	16.11	0.8535	2500
0950710106	ROBIN	1	42.39	7.10	49.49	6/3.00	1/3.00	9.00	116	55	171	15.85	0.6767	2500
0950710107	RAVEN	1/0	53.48	8.90	62.38	6/3.37	1/3.37	10.11	147	69	216	19.32	0.5364	2000
0950710108	QUAIL	2/0	67.42	11.23	78.65	6/3.78	1/3.78	11.34	185	88	273	23.62	0.4255	3000
0950710109	PIGEON	3/0	85.03	14.19	99.22	6/4.25	1/4.25	12.75	233	110	343	29.41	0.3373	2500
0950710110	PENGUIN	4/0	107.23	17.87	125.10	6/4.77	1/4.77	14.31	294	139	433	37.06	0.2675	2000
0950710111	WAXWING	266.8	135.16	7.48	142.64	18/3.09	1/3.09	15.45	373	58	431	30.27	0.2133	3500
0950710112	PARTRIDGE	266.8	135.16	22.00	157.16	26/2.57	7/2.00	16.28	374	172	546	50.29	0.2143	2500
0950710113	OSTRICH	300	152.00	24.71	176.71	26/2.73	7/2.12	17.28	421	193	614	56.52	0.1906	3000
0950710114	MERLIN	336.4	170.45	9.48	179.93	18/3.47	1/3.47	17.35	470	74	544	38.23	0.1691	2000
0950710115	LINNET	336.4	170.45	27.81	198.26	26/2.89	7/2.25	18.31	472	217	689	62.71	0.1699	2500
0950710116	ORIOLE	336.4	170.45	39.81	210.26	30/2.69	7/2.69	18.83	473	311	784	77.27	0.1704	3000
0950710117	CHICKADEE	397.5	201.42	11.16	212.58	18/3.77	1/3.77	18.85	555	87	642	43.99	0.1431	2500
0950710118	BRANT	397.5	201.42	26.13	227.55	24/3.27	7/2.18	19.61	558	204	762	64.69	0.1438	2000
0950710119	IBIS	397.5	201.42	32.77	234.19	26/3.14	7/2.44	19.88	558	256	814	72.11	0.1438	2500
0950710120	LARK	397.5	201.42	46.97	248.39	30/2.92	7/2.92	20.44	560	367	927	88.69	0.1442	2500
0950710121	PELICAN	477	241.68	13.42	255.10	18/4.14	1/4.14	20.70	666	105	771	52.16	0.1193	2000
0950710122	FLICKER	477	241.68	31.29	272.97	24/3.58	7/2.39	21.49	670	245	915	76.66	0.1199	3000

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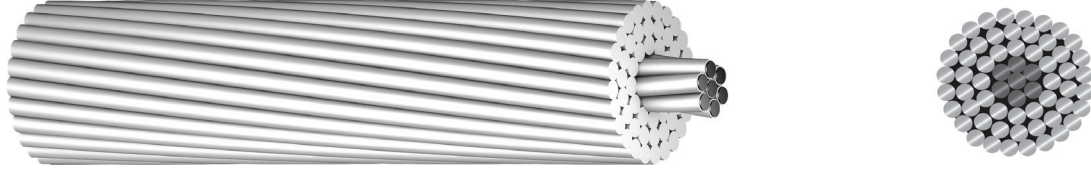


RIYADH CABLES CODE NUMBER	CODE NAME	AREA				STRANDING AND WIRE DIAMETER		APPROX. OVERALL DIAMETER	WEIGHT			NOMINAL BREAKING LOAD	NOMINAL DC RESISTANCE AT 20 DEG.	STANDARD LENGTH
		NOMINAL	ALUM.	STEEL	TOTAL	ALUMINIUM	STEEL		ALUM.	STEEL	TOTAL			
		AWGorMCM	(MM2)	(MM2)	(MM2)	(MM)	(MM)	(MM)	(KG/KM)	(KG/KM)	(KG/KM)	(KN)	(OHM/KM)	(M+/-5%)
0950710123	HAWK	477	241.68	39.42	281.10	26/3.44	7/2.67	21.79	670	308	978	86.65	0.1199	2000
0950710124	HEN	477	241.68	56.39	298.07	30/3.20	7/3.20	22.40	671	441	1112	105.34	0.1201	2000
0950710125	OSPREY	556.5	282.00	15.68	297.68	18/4.47	1/4.47	22.35	777	122	899	60.88	0.1022	2000
0950710126	PARAKEET	556.5	282.00	36.58	318.58	24/3.87	7/2.58	23.22	781	286	1067	88.22	0.1027	3000
0950710127	DOVE	556.5	282.00	45.94	327.94	26/3.72	7/2.89	23.55	781	359	1140	101.03	0.1027	3000
0950710128	EAGLE	556.5	282.00	65.81	347.81	30/3.46	7/3.46	24.21	783	515	1298	122.92	0.1030	3500
0950710129	PEACOCK	605	306.58	39.74	346.32	24/4.03	7/2.69	24.20	849	311	1160	95.88	0.0945	3000
0950710130	SQUAB	605	306.58	49.94	356.52	26/3.87	7/3.01	24.51	850	390	1240	108.14	0.0945	3000
0950710131	WOOD DUCK	605	306.58	71.55	378.13	30/3.61	7/3.61	25.25	851	560	1411	128.84	0.0947	3000
0950710132	TEAL	605	306.58	69.87	376.45	30/3.61	19/2.16	25.24	851	548	1399	133.59	0.0947	2000
0950710133	KINGBIRD	636	322.26	17.90	340.16	18/4.78	1/4.78	23.88	889	139	1028	69.55	0.08945	2000
0950710134	ROOK	636	322.26	41.81	364.07	24/4.14	7/2.76	24.84	893	326	1219	100.83	0.08989	2500
0950710135	GROSBEAK	636	322.26	52.45	374.71	26/3.97	7/3.09	25.15	893	409	1302	111.80	0.08989	3000
0950710136	SCOTER	636	322.26	75.22	397.48	30/3.70	7/3.70	25.88	895	589	1484	135.44	0.09011	3000
0950710137	EGRET	636	322.26	73.55	395.81	30/3.70	19/2.22	25.90	894	576	1470	140.30	0.09011	3000
0950710138	SWIFT	636	322.26	8.96	331.22	36/3.38	1/3.38	23.62	888	70	958	60.52	0.08945	2000
0950710139	FLAMINGO	666.6	337.74	43.81	381.55	24/4.23	7/2.82	25.40	936	342	1278	105.66	0.08577	2500
0950710140	GANNET	666.6	337.74	55.03	392.77	26/4.07	7/3.16	25.76	936	429	1365	117.33	0.08577	2500
0950710141	STILT	715.5	362.58	46.97	409.55	24/4.39	7/2.92	26.31	1005	367	1372	113.35	0.07989	2000
0950710142	STARLING	715.5	362.58	59.03	421.61	26/4.21	7/3.28	26.68	1005	461	1466	125.91	0.07989	2500

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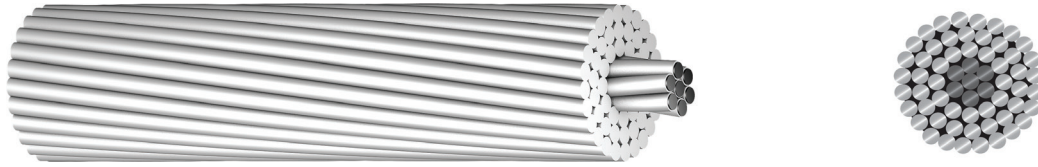


RIYADH CABLES CODE NUMBER	CODE NAME	AREA				STRANDING AND WIRE DIAMETER		APPROX. OVERALL DIAMETER	WEIGHT			NOMINAL BREAKING LOAD	NOMINAL DC RESISTANCE AT 20 DEG.	STANDARD LENGTH
		NOMINAL	ALUM.	STEEL	TOTAL	ALUM.	STEEL		ALUM.	STEEL	TOTAL			
		AWGorMCM	(MM2)	(MM2)	(MM2)	(MM)	(MM)		(KG/KM)	(KG/KM)	(KG/KM)			
0950710143	REDWING	715.5	362.58	82.58	445.16	30/3.92	19/2.35	27.43	1006	647	1653	153.94	0.08009	2000
0950710144	TERN	795	402.84	27.87	430.71	45/3.38	7/2.25	27.03	1116	217	1333	97.37	0.07191	2500
0950710145	CONDOR	795	402.84	52.19	455.03	54/3.08	7/3.08	27.72	1116	408	1524	124.45	0.07191	3000
0950710146	CUCKOO	795	402.84	52.19	455.03	24/4.62	7/3.08	27.74	1116	408	1524	123.94	0.07191	2000
0950710147	DRAKE	795	402.84	65.51	468.45	26/4.44	7/3.45	28.11	1116	512	1628	139.92	0.07191	2000
0950710148	COOT	795	402.84	11.16	414	36/3.77	1/3.77	26.41	1110	88	1198	74.34	0.07156	3000
0950710149	MALLARD	795	402.84	91.87	484.71	30/4.14	19/2.48	28.96	1119	719	1838	171.18	0.07208	2500
0950710150	RUDDY	900	456.06	31.54	487.60	45/3.59	7/2.40	28.73	1263	247	1510	108.96	0.06351	2000
0950710151	CANARY	900	456.06	59.10	515.16	54/3.28	7/3.28	29.52	1263	461	1724	140.95	0.06351	2000
0950710152	RAIL	954	483.42	33.42	516.84	45/3.70	7/2.47	29.61	1339	262	1601	115.63	0.05992	2000
0950710153	CATBIRD	954	483.42	13.42	496.84	36/4.14	1/4.14	28.95	1333	105	1438	87.66	0.05962	2500
0950710154	CARDINAL	954	483.42	62.65	546.07	54/3.38	7/3.38	30.42	1339	490	1829	149.36	0.05992	2500
0950710155	ORTLAN	1033.5	523.68	36.19	559.87	45/3.85	7/2.57	30.81	1451	283	1734	123.10	0.05531	2000
0950710156	TANGER	1033.5	523.68	14.51	538.19	36/4.30	1/4.30	30.12	1443	113	1556	94.93	0.05504	2000
0950710157	CURLEW	1033.5	523.68	67.87	591.55	54/3.52	7/3.52	31.68	1451	530	1981	161.80	0.05531	2000
0950710158	BLUEJAY	1113	563.93	39.03	602.96	45/4.00	7/2.66	31.98	1563	385	1868	132.63	0.05136	2500
0950710159	FINCH	1113	563.93	71.55	635.48	54/3.65	19/2.19	32.85	1570	580	2130	174.41	0.05161	2000
0950710160	BUNTING	1192.5	604.26	41.55	645.81	45/4.14	7/2.76	33.12	1674	327	2001	141.79	0.04793	2500
0950710161	GRACKLE	1192.5	604.26	76.58	680.84	54/3.77	19/2.27	33.97	1682	600	2282	186.38	0.04817	2000
0950710162	BITTERN	1272	644.51	44.52	689.03	45/4.27	7/2.85	34.17	1785	349	2134	151.48	0.04494	2500

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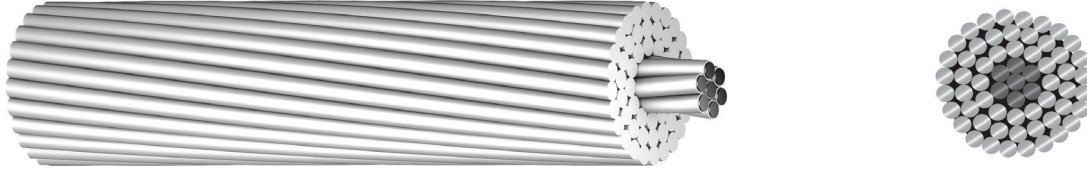


RIYADH CABLES CODE NUMBER	CODE NAME	AREA				STRANDING AND WIRE DIAMETER		APPROX. OVERALL DIAMETER	WEIGHT			NOMINAL BREAKING LOAD (KN)	NOMINAL DC RESISTANCE AT 20 DEG. (OHM/KM)	STANDARD LENGTH (M+/-5%)
		NOMINAL	ALUM.	STEEL	TOTAL	ALUM.	STEEL		ALUM.	STEEL	TOTAL			
0950710163	PHEASANT	1272	644.51	81.63	726.19	54/3.90	19/2.34	35.10	1795	638	2433	194.00	0.04516	2000
0950710164	SKYLARK	1272	644.51	17.87	662.38	36/4.78	1/4.78	33.42	1777	140	1917	115.85	0.04472	2000
0950710165	DIPPER	1351.5	684.84	47.10	731.94	45/4.40	7/2.92	35.16	1898	368	2266	160.70	0.04230	2000
0950710166	MARTIN	1351.5	684.84	88.71	771.55	54/4.02	19/2.41	36.17	1906	679	2585	206.05	0.04250	2000
0950710167	BOBOLINK	1431	725.10	50.32	775.42	45/4.53	7/3.02	36.24	2009	393	2402	170.71	0.03994	2000
0950710168	PLOVER	1431	725.10	91.87	816.97	54/4.14	19/2.48	37.24	2019	719	2738	218.24	0.04013	2500
0950710169	NUTHATCH	1510.5	765.35	52.90	818.25	45/4.65	7/3.10	37.20	2120	414	2534	177.89	0.03784	2000
0950710170	PARROT	1510.5	765.35	96.84	862.19	54/4.25	19/2.55	38.25	2131	759	2890	230.20	0.03802	2000
0950710171	LAPWING	1590	805.68	55.48	861.16	45/4.77	7/3.18	38.16	2232	435	2667	187.02	0.03595	2000
0950710172	FALCON	1590	805.68	102.13	907.81	54/4.36	19/2.62	39.26	2243	799	3042	242.55	0.03613	2000
HIGH STRENGTH STRANDINGS														
0950710173	GROUSE	80	40.52	14.13	54.65	8/2.54	1/4.24	9.32	112	110	222	23.60	0.7115	2500
0950710174	PETREL	101.8	51.61	30.06	81.67	12/2.34	7/2.34	11.71	143	235	378	41.75	0.5613	2000
0950710175	MINORCA	110.8	56.13	32.77	88.90	12/2.44	7/2.44	12.22	156	256	412	51.25	0.5161	2000
0950710176	LEGHORN	134.6	68.19	39.81	108.00	12/2.69	7/2.69	13.46	189	311	500	61.70	0.4248	2000
0950710177	GUINEA	159	80.58	46.97	127.55	12/2.92	7/2.92	14.63	223	367	590	72.55	0.3595	2000
0950710178	DOTTEREL	176.9	89.48	52.19	141.67	12/3.08	7/3.08	15.42	248	409	657	78.50	0.3237	2000
0950710179	DORKING	190.8	96.71	56.39	153.10	12/3.20	7/3.20	16.03	268	441	709	84.80	0.2995	3000
0950710180	BRAHMA	203.2	102.97	91.87	194.84	16/2.86	19/2.48	18.14	285	722	1007	128.80	0.2813	2500
0950710181	COCHIN	211.8	107.10	62.45	169.55	12/3.37	7/3.37	16.84	297	488	785	93.90	0.2705	3000

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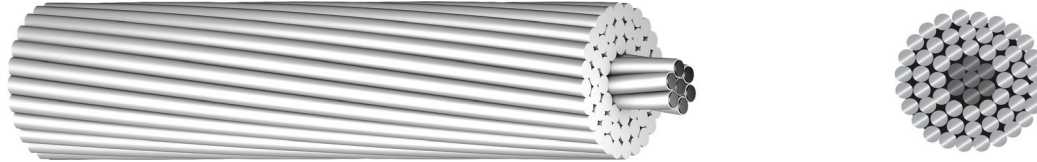


RIYADH CABLES CODE NUMBER	CODE NAME	AREA				STRANDING AND WIRE DIAMETER		APPROX. OVERALL DIAMETER	WEIGHT			NOMINAL BREAKING LOAD (KN)	NOMINAL DC RESISTANCE AT 20 DEG. (OHM/KM)	STANDARD LENGTH (M+/-5%)
		ALUMINIUM	ALUMO-WELD	TOTAL	ALUM.	ALUMO-WELD	ALUM.		ALUMO-WELD	TOTAL				
											AWGorMCM			
0960710101	SWANATE	4	21.16	5.35	26.51	7/1.96	1/2.61	6.53	58.0	35	93	10.16	1.2490	2000
0960710102	SPARROW	2	33.61	5.61	39.22	6/2.67	1/2.67	8.01	92.0	37	129	12.31	0.8079	2000
0960710103	SPARATE	2	33.61	8.52	42.13	7/2.47	1/3.30	8.24	92.0	56	148	15.60	0.7861	2000
0960710104	ROBIN	1	42.39	7.10	49.49	6/3.00	1/3.00	9.00	116	47	163	15.34	0.6404	2500
0960710105	RAVEN	1/0	53.48	8.90	62.38	6/3.37	1/3.37	10.11	147	59	206	18.78	0.5078	2000
0960710106	QUAIL	2/0	67.42	11.23	78.65	6/3.78	1/3.78	11.34	185	74	259	22.85	0.4028	3000
0960710107	PIGEON	3/0	85.03	14.19	99.22	6/4.25	1/4.25	12.75	233	94	327	28.03	0.3193	2500
0960710108	PENGUIN	4/0	107.23	17.87	125.10	6/4.77	1/4.77	14.31	294	118	412	34.15	0.2532	2000
0960710109	WAXWING	266.8	135.16	7.48	142.64	18/3.09	1/3.09	15.45	373	49	422	30.03	0.2094	2000
0960710110	MERLIN	336.4	170.45	9.48	179.93	18/3.47	1/3.47	17.35	470	62	532	37.66	0.1660	2500
0960710111	LINNET	336.4	170.45	21.81	198.26	26/2.89	7/2.25	18.31	472	184	656	59.95	0.1610	2500
0960710112	ORIOLE	336.4	170.45	39.81	210.26	30/2.69	7/2.69	18.83	473	264	737	74.65	0.1578	2000
0960710113	CHICKADEE	397.5	201.42	11.16	212.58	18/3.77	1/3.77	18.85	555	74	629	43.62	0.1405	2500
0960710114	IBIS	397.5	201.42	32.77	234.19	26/3.14	7/2.44	19.88	558	217	775	69.80	0.1363	2000
0960710115	LARK	397.5	201.42	46.97	248.39	30/2.92	7/2.92	20.44	560	311	871	87.19	0.1335	2500
0960710116	PELICAN	477	241.68	13.42	255.10	18/4.14	1/4.14	20.70	666	88	754	50.86	0.1171	2000
0960710117	FLICKER	477	241.68	31.29	272.97	24/3.58	7/2.39	21.49	670	207	877	74.35	0.1148	3000
0960710118	HAWK	477	241.68	39.42	281.10	26/3.44	7/2.67	21.80	670	261	931	83.87	0.1136	3500
0960710119	HEN	477	241.68	56.39	298.07	30/3.20	7/3.20	22.40	671	373	1044	103.53	0.1113	2000
0960710120	OSPREY	556.5	282.00	15.68	297.68	18/4.47	1/4.47	22.35	777	103	880	58.73	0.1003	2000

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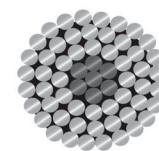


RIYADH CABLES CODE NUMBER	CODE NAME	AREA				STRANDING AND WIRE DIAMETER		APPROX. OVERALL DIAMETER	WEIGHT			NOMINAL BREAKING LOAD (KN)	NOMINAL DC RESISTANCE AT 20 DEG. (OHM/KM)	STANDARD LENGTH (M+/-5%)
		ALUMINIUM		ALUMO-WELD	TOTAL	ALUM.	ALUMO-WELD		ALUM.	ALUMO-WELD	TOTAL			
		AWGorMCM	(MM2)	(MM2)	(MM2)									
0960710121	PARAKEET	556.5	282.00	36.58	318.58	24/3.87	7/2.58	23.22	781	242	1023	85.64	0.0984	2500
0960710122	DOVE	556.5	282.00	45.94	327.94	26/3.72	7/2.89	23.55	781	304	1085	97.60	0.0973	3000
0960710123	EAGLE	556.5	282.00	65.81	347.81	30/3.46	7/3.46	24.21	783	436	1219	118.96	0.0954	3500
0960710124	PEACOCK	605	306.58	39.74	346.32	24/4.03	7/2.69	24.20	840	263	1112	93.08	0.0905	2500
0960710125	SQUAB	605	306.58	49.94	356.52	26/3.87	7/3.01	24.51	850	330	1180	104.89	0.0895	3000
0960710126	WOOD DUCK	605	306.58	71.55	378.13	30/3.61	7/3.61	25.25	851	474	1325	126.53	0.0877	3000
0960710127	KINGBIRD	636	322.26	17.90	340.16	18/4.78	1/4.78	23.88	889	118	1007	66.64	0.0878	2000
0960710128	ROOK	636	322.26	41.81	364.07	24/4.14	7/2.76	24.84	893	277	1170	97.88	0.0861	2500
0960710129	GROSBEAK	636	322.26	52.45	374.71	26/3.97	7/3.09	25.15	893	347	1240	110.21	0.0852	2500
0960710130	SCOTER	636	322.26	75.22	397.48	30/3.70	7/3.70	25.88	895	498	1393	130.29	0.0834	3000
0960710131	SWIFT	636	322.26	8.96	331.22	36/3.38	1/3.38	23.62	888	59	947	60.36	0.0886	2000
0960710132	FLAMINGO	666.6	337.74	43.81	381.55	24/4.23	7/2.82	25.40	936	290	1226	102.57	0.0821	2500
0960710133	GANNET	666.6	337.74	55.03	392.77	26/4.07	7/3.16	25.76	936	364	1300	115.57	0.0813	2500
0960710134	STILT	715.5	362.58	46.97	409.55	24/4.39	7/2.92	26.31	1005	311	1316	110.04	0.0765	2000
0960710135	STARLING	715.5	362.58	59.03	421.61	26/4.21	7/3.28	26.68	1005	391	1396	122.35	0.0757	2500
0960710136	REDWING	715.5	362.58	82.58	445.16	30/3.92	19/2.35	27.43	1006	547	1553	148.31	0.0743	2000
0960710137	TERN	795	402.84	27.87	430.71	45/3.38	7/2.25	27.03	1116	184	1300	95.44	0.0702	2500
0960710138	CONDOR	795	402.84	52.19	455.03	54/3.08	7/3.08	27.72	1116	345	1461	122.77	0.0689	3000
0960710139	CUCKOO	795	402.84	52.19	455.03	24/4.62	7/3.08	27.74	1116	345	1461	122.77	0.0689	2000
0960710140	DRAKE	795	402.84	65.61	468.45	26/4.44	7/3.45	28.11	1116	434	1550	135.96	0.0681	2000

ACSR / AW

Aluminium Conductors Aluminium Clad Steel Reinforced

ASTM B 549

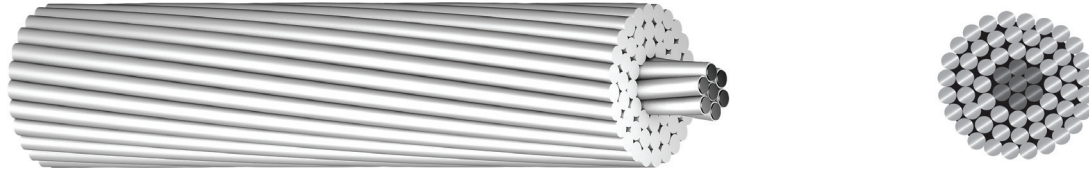


RIYADH CABLES CODE NUMBER	CODE NAME	AREA				STRANDING AND WIRE DIAMETER		APPROX. OVERALL DIAMETER	WEIGHT			NOMINAL BREAKING LOAD	NOMINAL DC RESISTANCE AT 20 DEG.	STANDARD LENGTH
		AWGorMCM	(MM2)	ALUMO-WELD (MM2)	TOTAL (MM2)	ALUM. (MM)	ALUMO-WELD (MM)		ALUM. (KG/KM)	ALUMO-WELD (KG/KM)	TOTAL (KG/KM)			
0960710141	COOT	795	402.84	11.16	414.00	36/3.77	1/3.77	26.41	1110	74	1184	74.09	0.0709	3000
0960710142	MALLARD	795	402.84	91.87	494.71	30/4.14	19/2.48	28.96	1119	609	1728	164.91	0.0669	2500
0960710143	RUDDY	900	456.06	31.54	487.60	45/3.59	7/2.40	28.73	1263	209	1472	107.09	0.0620	2000
0960710144	CANARY	900	456.06	59.10	515.16	54/3.28	7/3.28	29.52	1263	391	1654	137.34	0.0608	2000
0960710145	RAIL	954	483.42	33.42	516.84	45/3.70	7/2.47	29.61	1339	221	1560	113.26	0.0585	2000
0960710146	CATBIRD	954	483.42	13.42	496.84	36/4.14	1/4.14	28.95	1333	88	1421	86.36	0.0591	2500
0960710147	CARDINAL	954	483.42	62.65	546.07	54/3.38	7/3.38	30.42	1339	414	1753	145.59	0.0574	2500
0960710148	ORTLAN	1033.5	523.68	36.19	559.87	45/3.85	7/2.57	30.81	1451	239	1690	120.55	0.0540	2000
0960710149	TANAGER	1033.5	523.68	14.51	538.19	36/4.30	1/4.30	30.12	1443	96	1539	93.52	0.0545	2000
0960710150	CURLEW	1033.5	523.68	67.87	591.55	54/3.52	7/3.52	31.68	1451	449	1900	155.16	0.0530	2000
0960710151	BLUEJAY	1113	563.93	39.03	602.96	45/4.00	7/2.66	31.98	1563	258	1821	129.88	0.0502	2500
0960710152	BUNTING	1192.5	604.26	41.55	645.81	45/4.14	7/2.76	33.12	1674	275	1949	138.86	0.0468	2500
0960710153	GRACKLE	1192.5	604.26	76.58	680.84	54/3.77	19/2.27	33.97	1682	508	2190	179.00	0.0462	2000
0960710154	BITTERN	1272	644.51	44.52	689.03	45/4.27	7/2.85	34.17	1785	295	2080	148.34	0.0439	2500
0960710155	PHEASANT	1272	644.51	81.68	726.19	5/43.90	19/2.34	35.10	1795	541	2336	188.43	0.0433	2000
0960710156	SKYLARK	1272	644.51	17.87	662.38	36/4.78	1/4.78	33.42	1777	118	1895	113.94	0.0443	2000
0960710157	DIPPER	1351.5	684.84	47.10	731.94	45/4.40	7/2.92	35.16	1908	312	2210	157.39	0.0413	2000
0960710158	MARTIN	1351.5	684.84	86.71	771.55	54/4.02	19/2.41	36.17	1906	575	2481	200.13	0.0407	2500
0960710159	BOBOLINK	1431	725.10	50.32	775.42	45/4.53	7/3.02	36.24	2019	333	2342	167.16	0.0390	2000
0960710160	PLOVER	1431	725.10	91.87	816.97	54/4.14	19/2.48	37.24	2019	609	2628	211.97	0.0385	2500

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Aluminium Conductors Aluminium Clad Steel Reinforced

ASTM B 549

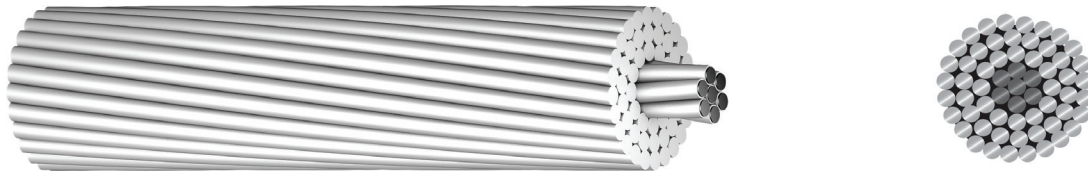


RIYADH CABLES CODE NUMBER	CODE NAME	AREA				STRANDING AND WIRE DIAMETER		APPROX. OVERALL DIAMETER	WEIGHT			NOMINAL BREAKING LOAD	NOMINAL DC RESISTANCE AT 20 DEG.	STANDARD LENGTH
		AWGorMCM	(MM2)	ALUMO-WELD (MM2)	TOTAL (MM2)	ALUM. (MM)	ALUMO-WELD (MM)		ALUM. (KG/KM)	ALUMO-WELD (KG/KM)	TOTAL (KG/KM)			
0960710161	NUTHATCH	1510.5	765.35	52.90	818.25	45/4.65	7/3.10	37.20	2120	350	2470	176.19	0.0370	2000
0960710162	PARROT	1510.5	765.35	96.84	862.19	54/4.25	19/2.55	38.25	2131	642	2773	223.59	0.0364	2500
0960710163	LAPWING	1590	805.68	55.48	861.16	45/4.77	7/3.18	38.16	2232	367	2599	185.24	0.0351	2000
0960710164	FALCON	1590	805.68	102.13	907.81	54/4.36	19/2.62	39.26	2243	677	2920	235.58	0.0345	2000
0960710182	GROUSE	80.0	40.54	14.13	54.67	8/2.54	1/4.242	9.32	111	93	204	21.70	0.6358	2500
0960710186	PETREL	101.8	51.58	30.08	81.66	12/2.339	7/2.339	11.70	141	201	342	44.00	0.4687	2000
0960710187	MINORCA	110.8	56.14	32.76	88.90	12/2.441	7/2.441	12.20	154	219	373	47.92	0.4306	2000
0960710190	LEGHORN	134.6	62.80	39.78	102.58	12/2.69	7/2.69	13.45	187	266	453	57.80	0.3535	2000
0960710193	GUINEA	159.0	80.57	47.00	127.57	12/2.924	7/2.924	14.62	221	314	535	67.98	0.3000	2000
0960710194	DOTTEREL	176.9	89.64	52.29	141.93	12/3.084	7/3.084	15.42	246	349	595	75.20	0.2697	3500
0960710195	DORKING	190.8	96.68	56.4	153.08	12/3.203	7/3.203	16.01	265	377	642	81.11	0.2500	3000
0960710196	BRAHMA	203.2	103.00	91.93	194.93	16/2.863	19/2.482	18.13	283	617	900	120.46	0.2160	2500
0960710197	COCHIN	211.3	107.1	62.47	169.57	12/3.371	7/3.371	16.85	294	417	711	88.06	0.2257	3000

ACAR

Aluminium Conductors Aluminium Alloy Reinforced
Characteristics of A1/A2 Conductors

IEC 61089



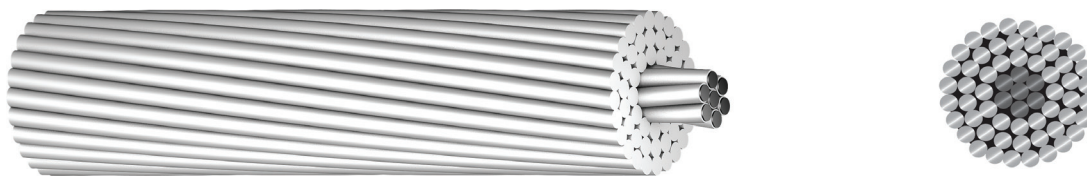
Riyadh Cables Code number	Specification Code number	Diameter		Number of wires		Areas			Linear mass Kg/km	Rated strength kN	D.C resistance Ohm/km
		Wire mm	Cond. mm	A1	A2	A1 mm ²	A2 mm ²	Total mm ²			
0970011109	16	1.76	5.28	4	3	9.73	7.30	17.0	46.6	3.85	1.7896
09700111110	25	2.20	6.60	4	3	15.2	11.4	26.6	72.8	5.93	1.1453
09700111111	40	2.78	8.35	4	3	24.3	18.3	42.6	116.5	9.25	0.7158
09700111112	63	3.49	10.5	4	3	38.3	28.7	67.1	183.5	14.38	0.4545
09700111113	100	4.40	13.2	4	3	60.8	45.6	106	291.2	22.52	0.2863
09700111114	125	2.97	14.9	12	7	83.3	48.6	132	362.7	27.79	0.2302
09700111115	160	3.36	16.8	12	7	107	62.2	169	464.2	35.04	0.1798
09700111116	200	3.76	18.8	12	7	133	77.8	211	580.3	43.13	0.1439
09700111117	250	4.21	21.0	12	7	167	97.2	264	725.3	53.92	0.1151
09700111118	250	3.04	21.3	18	19	131	138	269	742.2	60.39	0.1154
09700111119	315	3.34	23.4	30	7	263	61.3	324	892.6	60.52	0.0916
09700111220	315	3.42	23.9	18	19	165	174	339	935.1	76.09	0.0916
09700111221	400	3.76	26.3	30	7	334	77.8	411	1133.5	75.19	0.0721
09700111222	400	3.85	27.0	18	19	210	221	431	1187.5	95.58	0.0721
09700111223	450	3.99	27.9	30	7	375	87.6	463	1275.2	84.59	0.0641
09700111224	450	4.08	28.6	18	19	236	249	485	1335.9	107.52	0.0641
09700111225	500	4.21	29.4	30	7	417	97.3	514	1416.9	93.98	0.0577
09700111226	500	4.31	30.1	18	19	262	277	539	1484.3	119.47	0.0577
09700111227	560	4.45	31.2	30	7	467	109	576	1586.9	105.26	0.0515
09700111228	560	3.45	31.0	54	7	504	65.4	570	1571.9	101.54	0.0516
09700111229	630	3.71	33.4	42	19	454	205	660	1820.0	130.25	0.0458
09700111330	630	3.79	34.1	24	37	271	417	688	1897.5	160.19	0.0458
09700111331	710	3.94	35.5	42	19	512	232	743	2051.2	146.78	0.0407
09700111332	710	4.02	36.2	24	37	305	470	775	2138.4	180.53	0.0407
09700111333	800	4.18	37.6	42	19	577	261	838	2311.2	165.39	0.0361
09700111334	800	4.27	38.4	24	37	344	530	873	2409.5	203.41	0.0361
09700111335	900	4.43	39.9	42	19	649	294	942	2600.1	186.06	0.0321
09700111336	900	3.66	40.2	54	37	567	388	955	2638.4	199.54	0.0321
09700111337	1000	3.80	41.8	72	19	816	215	1032	2849.1	190.94	0.0289
09700111338	1000	3.85	42.4	54	37	630	432	1061	2931.6	221.71	0.0289
09700111339	1120	4.02	44.2	72	19	914	241	1155	3191.0	213.85	0.0258
09700111440	1120	4.08	44.9	54	37	705	483	1189	3283.4	248.32	0.0258
09700111441	1250	4.25	46.7	72	19	1020	269	1289	3561.4	238.68	0.0231
09700111442	1250	4.31	47.4	54	37	787	539	1327	3664.5	277.14	0.0231
09700111443	1400	4.50	49.4	72	19	1143	302	1444	3988.8	267.32	0.0207

ACAR

Aluminium Conductors Aluminium Alloy Reinforced

Characteristics of A1/A3 Conductors

IEC 61089



Riyadh Cables Code number	Specification Code number	Diameter		Number of wires		Areas			Linear mass Kg/km	Rated strength kN	D.C resistance Ohm/km
		Wire mm	Cond. mm	A1	A2	A1 mm ²	A2 mm ²	Total mm ²			
0970010109	16	1.76	5.29	4	3	9.78	7.33	17.1	46.8	4.07	1.7896
0970010110	25	2.21	6.62	4	3	15.3	11.5	26.7	73.1	6.29	1.1453
0970010111	40	2.79	8.37	4	3	24.4	18.3	42.8	117.0	9.82	0.7158
0970010112	63	3.50	10.5	4	3	38.5	28.9	67.4	184.3	14.80	0.4545
0970010113	100	4.41	13.2	4	3	61.1	45.8	107	292.5	23.49	0.2863
0970010114	125	2.98	14.9	12	7	83.7	48.8	132	364.1	29.29	0.2302
0970010115	160	3.37	16.9	12	7	107	62.5	170	466.0	36.95	0.1798
0970010116	200	3.77	18.8	12	7	134	78.1	212	582.5	44.78	0.1439
0970010117	250	4.21	21.1	12	7	167	97.6	265	728.1	55.98	0.1151
0970010118	250	3.05	21.4	18	19	132	139	271	746.0	64.67	0.1154
0970010119	315	3.34	23.4	30	7	263	61.4	325	894.4	62.40	0.0916
0970010120	315	3.43	24.0	18	19	166	175	341	940.0	81.48	0.0916
0970010121	400	3.77	26.4	30	7	334	78.0	412	1135.8	76.82	0.0721
0970010122	400	3.86	27.0	18	19	211	222	433	1193.7	100.30	0.0721
0970010123	450	3.99	28.0	30	7	376	87.7	464	1277.8	86.42	0.0641
0970010124	450	4.10	28.7	18	19	237	250	487	1342.9	112.84	0.0641
0970010125	500	4.21	29.5	30	7	418	97.5	515	1419.8	96.03	0.0577
0970010126	500	4.32	30.2	18	19	263	278	542	1492.1	125.38	0.0577
0970010127	560	4.46	31.2	30	7	468	109	577	1590.1	107.55	0.0515
0970010128	560	3.45	31.1	54	7	505	65.5	570	1573.9	103.53	0.0516
0970010129	630	3.72	33.4	42	19	456	206	662	1826.0	134.59	0.0458
0970010130	630	3.80	34.2	24	37	272	420	692	1909.0	169.14	0.0458
0970010131	710	3.95	35.5	42	19	514	232	746	2057.8	151.68	0.0407
0970010132	710	4.03	36.3	24	37	307	473	780	2151.4	190.61	0.0407
0970010133	800	4.19	37.7	42	19	579	262	840	2318.7	170.90	0.0361
0970010134	800	4.28	38.5	24	37	346	533	879	2424.2	214.78	0.0361
0970010135	900	4.44	40.0	42	19	651	294	945	2608.5	192.27	0.0321
0970010136	900	3.66	40.3	54	37	569	390	959	2649.5	207.79	0.0321
0970010137	1000	3.80	41.8	72	19	818	216	1034	2855.4	195.47	0.0289
0970010138	1000	3.86	42.5	54	37	632	433	1066	2943.9	230.88	0.0289
0970010139	1120	4.02	44.3	72	19	916	242	1158	3198.1	218.92	0.0258
0970010140	1120	4.09	45.0	54	37	708	485	1194	3297.2	258.58	0.0258
0970010141	1250	4.25	46.8	72	19	1022	270	1292	3569.3	244.33	0.0231
0970010142	1250	4.32	47.5	54	37	791	542	1332	3679.9	288.60	0.0231
0970010143	1400	4.50	49.5	72	19	1145	302	1447	3997.6	273.65	0.0207

AW

Alumoweld Wires
Alumoweld Earthwires

ASTM B 415
ASTM B 416



Alumoweld Wires

RIYADH CABLES CODE NO.	SIZE AWG	AREA	DIAMETER	BREAKING LOAD	NOMINAL RESISTANCE AT 20°C	WEIGHT
		mm ²	mm	daN	Ohm/km	kg/km.
0990701462	5 Awg	16.77	4.62	1909	5.055	110.50
0990701411	6 Awg	13.30	4.11	1596	6.3746	87.62
0990701367	7 Awg	10.55	3.67	1346	8.038	69.48
0990701326	8 Awg	8.368	3.26	1125	10.134	55.11
0990701291	9 Awg	6.632	2.91	892	12.782	43.71
0990701259	10 Awg	5.261	2.59	707	16.115	34.66
0990701230	11 Awg	4.172	2.30	560	20.321	27.49



Alumoweld Earthwires

RIYADH CABLES CODE NO.	NO. AND SIZE OF WIRES	AREA mm ²	DIAMETER mm	STRANDING		daN	NOMINAL DC RESISTANCE AT 20 °C ohm/km.	WEIGHT kg/km.	STANDARD LENGTH m. ± 5%
				No.	Ø				
0990707462	No. 7 - 5 Awg	117.42	13.97	7	4.62	12028	0.7427	781.1	2000
0990707411	No. 7 - 6 Awg	93.10	12.34	7	4.11	10114	0.9196	619.5	3000
0990707367	No. 7 - 7 Awg	73.87	11.00	7	3.67	8481	1.1597	491.1	3000
0990707326	No. 7 - 8 Awg	58.56	9.78	7	3.26	7089	1.4626	389.6	3000
0990707291	No. 7 - 9 Awg	46.44	8.71	7	2.91	5620	1.8441	308.9	3000
0990707259	No. 7 - 10 Awg	36.83	7.77	7	2.59	4459	2.3254	245.1	3000
0990707230	No. 7 - 11 Awg	29.18	6.91	7	2.30	3535	2.9324	194.4	3000
0990719462	No. 19 - 5 Awg	318.70	23.11	19	4.62	32639	0.2698	2128	2000
0990719411	No. 19 - 6 Awg	252.70	20.57	19	4.11	27455	0.3402	1688	2000
0990719367	No. 19 - 7 Awg	200.45	18.31	19	3.67	23019	0.4291	1339	2000
0990719326	No. 19 - 8 Awg	158.96	16.30	19	3.26	19241	0.5410	1062	2000
0990719291	No. 19 - 9 Awg	126.10	14.53	19	2.91	12258	0.6820	842	2000
0990719259	No. 19 - 10 Awg	99.93	12.93	19	2.59	12099	0.8602	668	2000

MODULI OF ELASTICITY AND COEFFICIENT OF LINEAR EXPANSION FOR VARIOUS TYPE OF CONDUCTORS

AAC & AAAC CONDUCTORS

CONSTRUCTION NO. OF WIRES	FINAL MODULUS OF ELASTICITY kg/mm ²	COEFFICIENT OF LINEAR EXPANSION / C
7	6000	23×10^{-6}
19	5700	23×10^{-6}
37	5700	23×10^{-6}
61	5500	23×10^{-6}

ALUMOWELD EARTH WIRES

CONSTRUCTION NO. OF WIRES	FINAL MODULUS OF ELASTICITY kg/mm ²	COEFFICIENT OF LINEAR EXPANSION / C
1	16500	13×10^{-6}
3	16200	13×10^{-6}
7	16200	13×10^{-6}
19	16200	13×10^{-6}
37	16200	13×10^{-6}

ACSR/AW CONDUCTORS

CONSTRUCTION NO. OF WIRES	FINAL MODULUS OF ELASTICITY kg/mm ²	COEFFICIENT OF LINEAR EXPANSION / C
6 + 1	7600	19.3×10^{-6}
6 + 7	7300	20×10^{-6}
26 + 7	7300	19.1×10^{-6}
30 + 7	7600	18×10^{-6}
30 + 19	7400	18.2×10^{-6}
54 + 7	6700	19.5×10^{-6}
54 + 19	6500	19.6×10^{-6}

**MODULI OF ELASTICITY AND COEFFICIENTS OF LINEAR EXPANSION
FOR COMMON CONSTRUCTIONS OF ALUMINIUM CONDUCTORS,
STEEL - REINFORCED (AS PER IEC 1597)**

(These values are given for information purposes only and are not to be regarded as test requirements)

Number of wires		Final modulus of elasticity ¹⁾ MPa x 10 ³	Coefficient of linear expansion ²⁾ 10 ⁻⁶ K ⁻¹
Aluminium	Steel		
6	1	76.7	18.6
18	1	63.1	21.0
22	7	67.1	20.1
26	7	73.9	18.9
45	7	63.7	20.8
54	7	70.5	19.4
54	19	70.2	19.5
72	7	60.6	21.5
72	19	60.5	21.5
84	7	65.4	20.4
84	19	65.2	20.5

- 1) *Final modulus of elasticity calculated with $E_a = 55\ 000\ \text{MPa}$ and $E_s = 190\ 000\ \text{MPa}$
(Except for single-wire steel core where $E_s = 207\ 000\ \text{MPa}$)*
- 2) *This figure is applicable to 7-wire and 19-wire cores. For larger cores, different values may have to be used.*

CONDUCTOR PULLING AND HANDLING INSTRUCTIONS

I. DRUM HANDLING

- 1) Unloading the drum should be by forklift or crane, rolling should be avoided.
- 2) If the above equipment are not available, rolling as per direction on special constructed ramps is allowed with a slope of 1/4 ($\theta=14$ degrees)
- 3) When the reels are lifted by an axle supported from above, a separator bar must be employed to prevent damage to the conductor or reel, or both, by inward pressure on the reel flange.
- 4) Drum should not be dropped on the ground under any circumstances even on soft material.
- 5) Drums should be kept in the -up right position.
- 6) Be sure that the end tightener is still in place.
- 7) Drums should be covered all the time.
- 8) Avoid moving the drum from one place to another as this may help in loosening the conductor windings.
- 9) Remember always that conductor is a high commodity value and it is very sensitive to damage and must be handled with necessary care.

II. PREPARATION AND CONDUCTOR PULLING

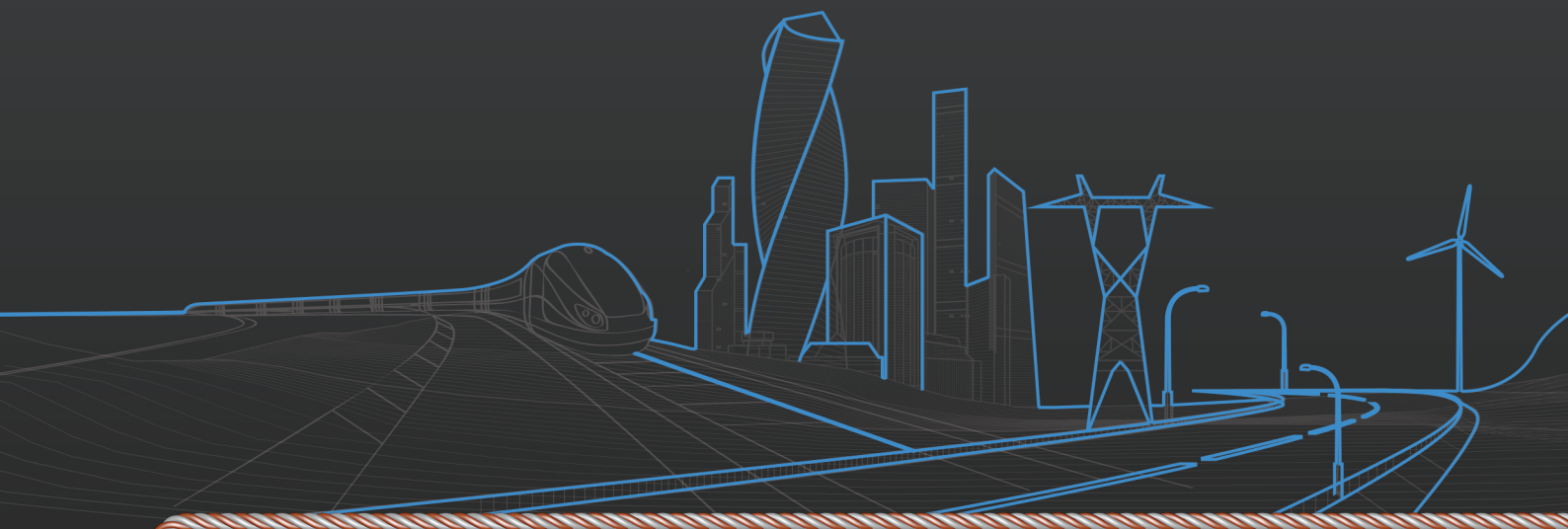
- 1) Drum flange bolts should be inspected and tightened as they may get loose during drum transportation and frequent handling.
- 2) Conductor should be inspected before erection to ensure that it is damage free.
- 3) Location of drum prior to pulling can be decided based on minimum pulling tension which can be achieved.
- 4) Drums should be normally mounted so that the conductor is pulled from the top of the drum.

- 5) Minimum permissible bending radius shall be as recommended by the manufacturer.
- 6) Conductor pulling tension should not exceed 70% of conductor sagging tension, or 15 % of the conductor breaking strength.
- 7) Bearing pressure on the conductor at the bend should not be exceeded as to avoid strand notching.
- 8) Care should be taken at all times to ensure that conductors do not become kinked, twisted, abraded or damaged and that foreign matter does not become deposited on them.
- 9) It is preferable to use sheaves that line up with a conductive type neoprene or urethane to protect the conductor.
- 10) Sheaves should be clean and smooth to avoid any damage to the conductor.
- 11) Sheaves diameter should be minimum 20 times and 40 times conductor diameter for OHL and OPGW respectively.
- 12) Conductor tensioner (capstan) should be used for conductor pulling and not direct from the conductor drum.
- 13) Conductor tensioner should have a minimum of five turns of the conductor.
- 14) Wheels of the “bull-wheel” tensioner and “bull-wheel” puller should have multiple groove lines with neoprene or other approved non-metallic resilient material so that conductor will cushion into the lining to prevent flattening otherwise conductor may be damaged.
- 15) V-groove type bull-wheels should be avoided.
- 16) Groove diameter should be at least 1.25 conductor diameter, while “bull-wheel” should have a minimum bottom groove diameter of 40 times and 70 times the conductor diameter for OHL and OPGW respectively
- 17) Tandem bull-wheels should be so aligned that the offset will be approximately one-half the groove spacing. For normal conductors having a right-hand direction of lay for the outer wires, bull wheels should be arranged so that, when facing in the direction of pull, the conductor will enter the bull wheel on the left and pull off from the right side. For any conductors having a left -hand direction of lay for the outer wires, the conductor should enter on the right and pull off from the left. This arrangement is necessary to avoid any tendency to loosen the outer layer of strands as the conductor passes over the bull wheels.

- 18) Possibility of braking the drum anytime should be prepared as in sudden stoppage of conductor pulling. Continuation of drum rotation can cause sharp bending of the conductor.
- 19) The pulling and braking systems should operate smoothly and should not cause any sudden jerking or bouncing of the conductor. Each system should be readily controllable and capable of maintaining a constant tension.
- 20) Pullers should be equipment with load-indicating and load-limiting devices. The load-limiting device should automatically stop the puller from acting further if a preset maximum load has been exceeded. Tensioners should be equipped with tension indicating devices.
- 21) Tensioner bull wheels must be retarded so that conductor tension may be maintained a various pulling speeds.
- 22) During pulling the inner end of the conductor might be projected more and more, then it is necessary to interrupt the pulling from time to time in such cases for re-securing the said end.
- 23) The conductor should preferably be drawn in a continuous manner. During stops, it may settle between sheaves and sheaves suspension holder and may cause high strain on conductors during re-starting.
- 24) To avoid birdcaging allow enough distance between the reel and tensioner to permit the strand looseness to distribute along the intervening length of conductor and simultaneously maintaining enough back tension on the reel to stretch the core and inner strands to sufficiently tighten the outer strands. It is recommended that the back tension or braking tension of the conductor reel not exceed 4.5 kN, since drawing down of the conductor into the lower layers on the reel may cause surface damage. For smaller diameter and wooden reels, the back tension should be considerably less. Excessive back tension on the reel can,
 - a) Deform the reel flanges leading to tangles in the conductor,
 - b) Scratch or damage to the adjacent conductor layers and/or
 - c) Crush the reel drum.
- 25) Brake at pay-off should be lowered to the minimum to avoid conductor insertion in case windings are loose due to long time storage or any other reason.
- 26) In case of difficulty use motorized pay-off so tension at the conductor on the drum shall be approximately nil.

- 27) Dependable communication shall be maintained between the line - men operating the pulling equipment and the tensioning equipment and observing at intermediate locations at all times during the conductor stringing operation. Conductor over pulling or conductor loosening and sudden tension shall be avoided as this may damage the conductor.
- 28) Avoid conductor twisting by using swivel on the pulling line followed by anti - rotation device as this may cause birdcaging.
- 29) Conductor end should be always tightened so stranding loosening can be avoided.
- 30) At the bend, conductor shall be guided by sheaves . Direct touch with tower side shall be completely avoided.
- 31) The conductor should be grounded while it is being installed; the grounding conductor must be large enough to adequately conduct fault current to ground without fusing.
- 32) Immediately after cutting, the conductor end must be suitably secured.
- 33) It is recommended to inspect the conductor after pulling to ensure that it has not been damaged.

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