



OVERHEAD CONDUCTORS

STANDARDS COMPLIANCE



QUALITY CERTIFICATIONS



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Dynamic Cables Ltd.

AN ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

Registered Office: F-260, Road No.13, V.K.I. Area, Jaipur- 302013, Rajasthan, India

Ph: +91-141-2332388, 2262589, 4042005 Mo: +91-9001096020, 9001805444

Fax: +91-141-2330182

Email: info@dynamiccables.co.in | marketing@dynamiccables.co.in

Website: www.dynamiccables.co.in

About the Conductors –



1. Bare Hard Drawn Copper – The Bare copper conductor are used as ground conductor, un insulated hookup wire and jumpers.
Standards: IEC 60228, BS EN – 60228 etc.
2. All Aluminium Conductor (AAC)- The all aluminium conductor are used in low, medium and high voltage overhead lines. AAC has seen extensive use in urban areas whereas span are usually short but high conductivity required.
Standards – ASTM, AS, BS, CSA, DIN, IEC, NFC, SS etc.
3. All Aluminium alloy conductor (AAAC) – The all aluminium alloy conductor are extensively used for primary and secondary transmission in bare overhead distribution and transmission Lines (11KV to 800 KV Lines) and HV substations also usable in high polluted in industrial areas and coastal regions due to corrosion resistance.
Standards – IEC, BS, ASTM, CAN-CSA, DIN, IS, AS etc.
4. Aluminium conductor steel reinforced (ACSR) – The aluminium conductor steel reinforced conductor is a type of high capacity, high strength conductor typically used in overhead powerlines. The outer strand are high purity aluminium choosen for its good conductivity, low weight, low cost, resistance to corrosion and decent mechanical stress resistance.
Standards – ASTM, AS, BS, CSA, DIN, IEC, NFC, SS, IS etc.
5. AL – 59 Conductor – Al – 59 conductors are homogeneous alloy conductor of aluminium + magnesium + silica alloy tape. The conductors have a conductivity of 59% and hance have lesser DC resistance and higher current carrying capacity.
Al – 59 conductors are used in power transmission and distribution line for a wide voltage range (Low to ultra-high voltage) . These conductor have higher current carrying capacity and lower losses due to DC resistance. Al – 59 conductor have high corrosion resistance, making them most suited for development in coastal regions.
Standards: SS 4240814, SS 4240812, EN 50182, AS 1531 etc.

Bare Soft and Hard Drawn Copper Stranded



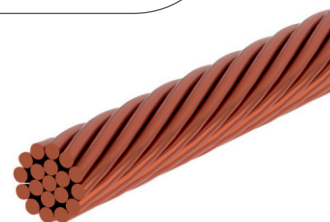
Copper Conductors

Description

1. Plain bare soft drawn Copper conductors as per IEC 60228 class 2.
2. Plain bare hard drawn Copper conductors as per DIN 48201.

Application

Soft Bare Copper conductors are used for grounding electrical systems, where high conductivity and flexibility are required. Hard drawn Copper conductors are used in overhead electrical distribution networks.



Nominal Cross Sectional Area	Number and Nominal Diameter of Wires No x f (mm)	Max. DC. resistance at 20°C ohm/km	Approx. Overall Diameter mm	Approx. Weight kg/km
a - Bare Soft Drawn				
10	7X 1.43	1.8300	3.7	86.5
16	7 X 1.75	1.1500	4.7	137
25	7 x2.18	0.7270	5.8	217
35	7 x 2.65	0.5240	6.9	298
50	19 x 1.86	0.3870	8.2	410
70	19 x 2.16	0.2680	10.1	595
95	19 x 2.65	0.1930	11.3	820
120	19 x 3.05	0.1530	12.7	1040
150	19 x 3.38	0.1240	14.1	1277
185	37 x 2.63	0.0991	15.8	1610
240	34 x 3.23	0.0754	18.2	2120
300	61 x 2.64	0.0601	20.6	2630
400	61 x 2.98	0.0470	23.2	3390
500	61 x 3.33	0.0366	26.6	4420
b - Bare Hard Drawn				
10	7x 1.35	1.8290	4.1	90
16	7 x 1.70	1.1540	5.1	143
25	7 x2.10	0.7563	6.3	218
35	7 x 2.50	0.5337	7.5	310
50	7 x 3.00	0.3706	9.0	446
50	19 x 1.80	0.3819	9.0	437
70	19 x2.10	0.2806	10.5	596
95	19 x2.50	0.1980	12.5	845
120	19 x 2.80	0.1578	14.0	1060
150	37 x2.25	0.1264	15.8	1337
185	37 x2.50	0.1024	17.5	1649
240	61x 2.25	0.07528	20.3	2209
300	61 x 2.50	0.06097	22.5	2725
400	61 x 2.89	0.0456	26.0	3640
500	61 x 3.23	0.0365	29.1	4545

The above data is approximate and subjected to manufacturing tolerance.

FOLLOW THE PROCESS, QUALITY WILL FOLLOW

Overhead Conductors



All Aluminium Conductors (A.A.C.)



Description

Hard drawn Aluminium wires, stranded in successive layers, in opposite direction to form the Aluminium stranded A.A.C. conductor. As per BS EN 50182 or IEC 61089.

Application

All Aluminium bare conductors are used for aerial distribution lines having relatively short spans, aerial feeders and bus bars of substations.

Nominal Cross Sectional Area mm ²	Number and Nominal Diameter of Wires No x \varnothing (mm)	Max. DC. Resistance at 20°C ohm/km	Rated Strength kN	Approx. Overall Diameter mm	Approx. Weight kg/km
a- According to BS EN 50182 - Germany					
16	7X 1.70	1.7986	3.02	5.10	43.4
25	7 X 2.10	1.1787	4.36	6.30	66.3
35	7 x 2.50	0.8317	6.01	7.50	93.9
50	7 x 3.00	0.5776	8.41	9.00	135.2
	19 X 1.80	0.5944	8.94	9.00	132.9
70	19 x 2.10	0.4367	11.85	10.5	180.9
95	19 x 2.50	0.3081	16.32	12.5	256.3
120	19 x 2.80	0.2456	19.89	14.0	321.5
150	37 x 2.25	0.1960	26.48	15.8	405.7
185	37 x 2.50	0.1588	31.78	17.5	500.9
240	61 x 2.25	0.1193	43.66	20.3	671.1
300	61 x2.50	0.0966	52.40	22.5	828.5
400	61 x 2.89	0.0723	68.02	26.0	1107.1
500	61 x 3.23	0.0579	82.47	29.1	1382.9
625	91 x 2.96	0.0464	106.45	32.6	1739.7
800	91 x 3.35	0.0362	132.34	36.9	2228.3
1000	91 x 3.74	0.0291	159.95	41.1	2777.3

The above data is approximate and subjected to manufacturing tolerance.

Overhead Conductors



All Aluminium Conductors (A.A.C.)



Name	Nominal Cross Sectional Area mm ²	Number and Nominal Diameters of Wires No x \varnothing (mm)	Max. D.C. Resistance at 20°C ohm/km	Rated Strength kN	Approx. Overall Diameter mm	Approx. Weight kg/km
b-According to BS EN 50182-United Kingdom						
MIDGE	23.3	7x2.06	1.2249	4.20	6.18	63.8
GNAT	26.9	7x2.21	1.0643	4.83	6.63	73.4
MOSQUITO	36.9	7x2.59	0.7749	6.27	7.77	100.8
LADYBIRD	42.8	7x2.79	0.6678	7.28	8.37	117.0
ANT	52.8	7x3.10	0.5409	8.72	9.30	144.4
FLY	63.6	7x3.40	0.4497	10.49	10.2	173.7
BLUEBOTTLE	73.6	7x3.66	0.3880	11.78	11.0	201.3
EARWIG	78.6	7x3.78	0.3638	12.57	11.3	214.7
GRASSHOPPER	84.1	7x3.91	0.3400	13.45	11.7	229.7
CLEGG	95.6	7x4.17	0.2989	15.30	12.5	261.3
WASP	106.0	7x4.39	0.2697	16.95	13.2	289.6
BEETLE	106.4	19x2.67	0.2701	18.08	13.4	292.4
BEE	132.0	7x4.90	0.2165	21.12	14.7	360.8
HORNET	157.6	19x3.25	0.1823	26.01	16.3	433.2
CATERPILLAR	185.9	19x3.53	0.1546	29.75	17.7	511.1
CHAFER	213.2	19x3.78	0.1348	34.12	18.9	586.0
SPIDER	237.6	19x3.99	0.1210	38.01	20.0	652.9
COCKROACH	265.7	19x4.22	0.1081	42.52	21.1	730.4
BUTTERFLY	322.7	19x4.65	0.0891	51.63	23.3	886.8
MOTH	373.1	19x5.00	0.0770	59.69	25.0	1025.3
DRONE	372.4	37x3.58	0.0774	59.59	25.1	1027.1
CENTIPEDE	415.2	37x3.78	0.0695	66.43	26.5	1145.1
MAYBUG	486.1	37x4.09	0.0593	77.78	28.6	1340.6
SCORPION	529.8	37x4.27	0.0544	84.77	29.9	1461.2
CICADA	628.3	37x4.65	0.0459	100.54	32.6	1732.9

The above data is approximate and subjected to manufacturing tolerance.

Overhead Conductors



All Aluminium Alloy Conductors (A.A.A.C.)



Description

All Aluminium Alloy (ALMELEC) conductors, stranded in successive layers to form the stranded A.A.A.C. conductor. As per IEC 61089 or BS EN 50182 or ASTM B 399.

Application

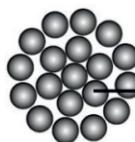
A.A.A.C. are mainly used for overhead lines, in transmission and distribution electrical networks, having relatively long spans. They are also used as a messenger to support overhead electrical cables.

Nominal Cross Sectional Area mm ²	Number and Nominal Diameters of Wires No x \varnothing (mm)	Max. D.C. Resistance at 20°C ohm/km	Rated Strength kN	Approx. Overall Diameter mm	Approx. Weight kg/km
a-According to BS EN 50182-Germany					
16	7x1.70	2.0701	4.69	5.10	43.4
25	7x2.10	1.3566	7.15	6.30	66.2
35	7x2.50	0.9572	10.14	7.50	93.8
50	7x3.00	0.6647	14.60	9.00	135.1
50	19x1.80	0.6841	14.26	9.00	132.7
70	19x2.10	0.5026	19.41	10.50	180.7
95	19x2.50	0.3546	27.51	12.50	256.0
120	19x2.80	0.2827	34.51	14.00	321.2
150	37x2.25	0.2256	43.40	15.80	405.3
185	37x2.50	0.1827	53.58	17.50	500.3
240	61x2.25	0.1373	71.55	20.30	670.3
300	61x2.50	0.1112	88.33	22.50	827.5
400	61x2.89	0.0832	118.04	26.00	1105.9
500	61x3.23	0.0666	147.45	29.10	1381.4
625	91x2.96	0.0534	184.73	32.60	1737.7
800	91x3.35	0.0417	236.62	36.90	2225.8
1000	91x3.74	0.0334	294.91	41.10	2774.3

The above data is approximate and subjected to manufacturing tolerance.



All Aluminium Alloy Conductors (A.A.A.C.)



Aluminum Alloy Conductor



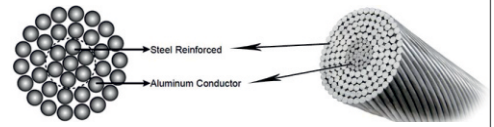
Name	Nominal Cross Sectional Area mm ²	Number and Nominal Diameters of Wires No x \varnothing (mm)	Max. D.C. Resistance at 20°C ohm/km	Rated Strength kN	Approx. Overall Diameter mm	Approx. Weight kg/km
b-According to BS EN 50182-United Kingdom						
BOX	18.8	7x1.85	1.7480	5.55	5.55	51.4
ACACIA	23.8	7x2.08	1.3828	7.02	6.24	64.9
ALMOND	30.1	7x2.34	1.0926	8.88	7.02	82.2
CEDAR	35.5	7x2.54	0.9273	10.46	7.62	96.8
DEODAR	42.2	7x2.77	0.7797	12.44	8.31	115.2
FIR	47.8	7x2.95	0.6875	14.11	8.85	130.6
HAZEL	59.9	7x3.30	0.5494	17.66	9.90	163.4
PINE	71.6	7x3.61	0.4591	21.14	10.8	195.6
HOLLY	84.1	7x3.91	0.3913	24.79	11.7	229.5
WILLOW	89.7	7x4.04	0.3665	26.47	12.1	245.0
OAK	118.9	7x4.65	0.2767	35.07	14.0	324.5
MULBERRY	150.9	19x3.18	0.2192	44.52	15.9	414.3
ASH	180.7	19x3.48	0.1830	53.31	17.4	496.1
ELM	211.0	19x3.76	0.1568	62.24	18.8	579.2
POPULAR	239.4	37x2.87	0.1387	70.61	20.1	659.4
SYCAMORE	303.2	37x3.23	0.1095	89.40	22.6	835.2
UPAS	362.1	37x3.53	0.0917	106.82	24.7	997.5
YEW	479.0	37x4.06	0.0693	141.31	28.4	1319.6
TOTARA	498.1	37x4.14	0.0666	146.93	29.0	1372.1
RUBUS	586.9	61x3.50	0.0567	173.13	31.5	1622.0
SORBUS	659.4	61x3.71	0.0505	194.53	33.4	1822.5
ARAUCARIA	821.1	61x4.14	0.0406	242.24	37.3	2269.4
REDWOOD	996.2	61x4.56	0.0334	293.88	41.0	2753.2

The above data is approximate and subjected to manufacturing tolerance.

Overhead Conductors



Aluminium Conductor Steel Reinforced (A.C.S.R.)



Description

An outer layer of Aluminium conductor concentrically stranded over the central core of galvanized solid or stranded steel wires to form Aluminium steel reinforced conductor. As per BS EN 50182 or ASTM B 232 or IEC 61089.

Application

A.C.S.R. conductors are widely used for electrical power transmission over long distances, since they are ideal for long overhead lines spans. They are also used as a messenger for supporting overhead electrical cables.

Nominal Cross Sectional Area	Number and Nominal Diameters of Wires		Max. D.C. Resistance at 20°C	Rated Strength	Approx. Overall Diameter	Approx. Weight
	Aluminium	Steel				
mm ²	No x \varnothing (mm)	No x \varnothing (mm)	ohm/km	kN	mm	kg/km

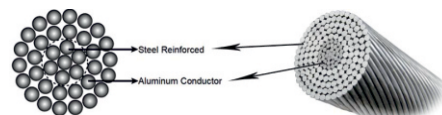
a-According to BS EN 50182-Germany

16/2.5	6x1.80	1x1.80	1.8769	5.80	5.4	61.6
25/4	6x2.25	1x2.25	1.2012	8.95	6.75	96.3
35/6	6x2.70	1x2.70	0.8342	12.37	8.1	138.7
50/8	6x3.20	1x3.20	0.5939	16.81	9.6	194.8
70/12	26x1.85	7x1.44	0.4132	26.27	11.7	282.2
95/15	26x2.15	7x1.67	0.3060	34.93	13.6	380.6
120/20	26x2.44	7x1.90	0.2376	44.50	15.5	491.0
150/25	26x2.70	7x2.10	0.1940	53.67	17.1	600.8
185/30	26x3.00	7x2.33	0.1571	65.27	19.0	741.0
210/35	26x3.20	7x2.49	0.1381	73.36	20.3	844.1
240/40	26x3.45	7x2.68	0.1188	85.12	21.8	980.1
380/50	54x3.00	7x3.00	0.0758	121.30	27.0	1442.5
490/65	54x3.40	7x3.40	0.0590	150.81	30.6	1852.9

The above data is approximate and subjected to manufacturing tolerance.



Aluminium Conductor Steel Reinforced (A.C.S.R.)



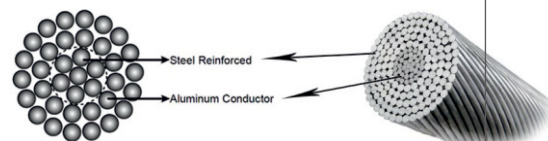
Name	Nominal Cross Sectional Area	Number and Nominal Diameters of Wires		Max. D.C. Resistance at 20°C	Rated Strength	Approx. Overall Diameter	Approx. Weight
		Aluminium No x ∅ (mm)	Steel No x ∅ (mm)				
	mm²			ohm/km	kN	mm	kg/km
b-According to BS EN 50182-Germany							
MOLE	12.4	6x1.50	1x1.50	2.7027	4.14	4.50	42.8
SQUIRREL	24.5	6x2.11	1x2.11	1.3659	7.87	6.33	84.7
GOPHER	30.6	6x2.36	1x2.36	1.0919	9.58	7.08	106.0
WEASEL	36.9	6x2.59	1x2.59	0.9065	11.38	7.77	127.6
FOX	42.8	6x2.79	1x2.79	0.7812	13.21	8.37	148.1
FERRET	49.5	6x3.00	1x3.00	0.6757	15.27	9.00	171.2
RABBIT	61.7	6x3.35	1x3.35	0.5419	18.42	10.1	213.5
MINK	73.6	6x3.66	1x3.66	0.4540	21.67	11.0	254.9
SKUNK	100.1	12x2.59	7x2.59	0.4568	52.79	13.0	463.0
BEAVER	87.5	6x3.99	1x3.99	0.3820	25.76	12.0	302.9
HORSE	116.2	12x2.79	7x2.79	0.3936	61.26	14.0	537.3
RACCOON	92.0	6x4.09	1x4.09	0.3635	27.06	12.3	318.3
OTTER	97.9	6x4.22	1x4.22	0.3415	28.81	12.7	338.8
CAT	111.3	6x4.50	1x4.50	0.3003	32.76	13.5	385.3
HARE	122.5	6x4.72	1x4.72	0.2730	36.04	14.2	4 23.8
DOG	118.5	6x4.72	7x1.57	0.2733	32.65	14.2	394.0
COYOTE	151.8	26x2.54	7x1.91	0.2192	45.86	15.9	520.7
COUGAR	138.8	18x3.05	1x3.05	0.2188	29.74	15.3	418.8
TIGER	161.9	30x2.36	7x2.36	0.2202	57.87	16.5	602.2
WOLF	194.9	30x2.59	7x2.59	0.1829	68.91	18.1	725.3
DINGO	167.5	18x3.35	1x3.35	0.1814	35.87	16.8	505.2
LYNX	226.2	30x2.79	7x2.79	0.1576	79.97	19.5	841.6
CARACAL	194.5	18x3.61	1x3.61	0.1562	40.74	18.1	586.7
PANTHER	261.5	30x3.00	7x3.00	0.1363	92.46	21.0	973.1
JAGUAR	222.3	18x3.86	1x3.86	0.1366	46.57	19.3	670.8
LION	293.9	30x3.18	7x3.18	0.1213	100.47	22.3	1093.4
BEAR	326.1	30x3.35	7x3.35	0.1093	111.50	23.5	1213.4
GOAT	400.0	30x3.71	7x3.71	0.0891	135.13	26.0	1488.2
SHEEP	462.6	30x3.99	7x3.99	0.0771	156.30	27.9	1721.3
ANTELOPE	422.6	54x2.97	7x2.97	0.0773	118.88	26.7	1413.8
BISON	431.2	54x3.00	7x3.00	0.0758	121.30	27.0	1442.5
DEER	529.8	30x4.27	7x4.27	0.0673	179.00	29.9	1971.4
ZEBRA	484.5	54x3.18	7x3.18	0.0674	131.92	28.6	1620.8
ELK	588.5	30x4.50	7x4.50	0.0606	198.80	31.5	2189.5
CAMEL	538.7	54x3.35	7x3.35	0.0608	146.40	30.2	1798.8
MOOSE	597.0	54x3.53	7x3.53	0.0547	159.92	31.8	1997.3

The above data is approximate and subjected to manufacturing tolerance.

Overhead Conductors



Aluminium Conductor Steel Reinforced (A.C.S.R.)

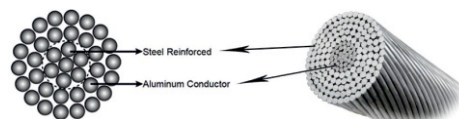


Name	Nominal Cross Sectional Area	Number and Nominal Diameters of Wires		Calculated D.C. Resistance at 20°C ohm/km	Calculated Rated Tensile Strength kN	Approx. Overall Diameter mm	Approx.Weight	
		Aluminium No x ∅ (mm)	Steel No x ∅ (mm)				Aluminium kg/km	Steel kg/km
	mm²							
c-According to BS EN 50182-Germany								
GROUSE	40.5	8x2.54	1x4.24	0.7112	23.1	9.3	112	110
PETREL	51.6	12x2.34	7x2.34	0.5614	46.2	11.7	143	235
MINORCA	56.1	12x2.44	7x2.44	0.5163	50.2	12.2	156	256
LEGHORN	68.2	12x2.69	7x2.69	0.4248	60.7	13.5	189	311
GUINEA	80.4	12x2.92	7x2.92	0.3605	71.1	14.6	223	367
DOTTEREL	89.4	12x3.08	7x3.08	0.3240	76.7	15.4	248	409
DORKING	96.5	12x3.20	7x3.20	0.3002	82.8	16.0	268	441
BRAHMA	102.8	16x2.86	19x2.48	0.2819	126.5	18.1	285	722
COCHIN	107.1	12x3.37	7x3.37	0.2707	91.8	16.9	297	488
TURKEY	13.3	6x1.68	1x1.68	2.1570	5.3	5.0	36	17
SWAN	21.2	6x2.12	1x2.12	1.3545	8.3	6.4	58	27
SWANATE	21.1	7x1.96	1x2.61	1.3583	10.5	6.5	58	42
SPARROW	33.6	6x2.67	1x2.67	0.8530	12.7	8.0	92	44
SPARATE	33.5	7x2.47	1x3.30	0.8553	16.1	8.3	92	67
ROBIN	42.4	6x3.00	1x3.00	0.6764	15.8	9.0	117	55
RAVEN	53.5	6x3.37	1x3.37	0.5364	19.5	10.1	147	69
QUAIL	67.4	6x3.78	1x3.78	0.4255	23.6	11.4	185	87
PIGEON	85.1	6x4.25	1x4.25	0.3370	29.5	12.7	233	110
PENGUIN	107.2	6x4.77	1x4.77	0.2676	37.1	14.3	294	139
WAXWING	135.0	18x3.09	1x3.09	0.2133	30.3	15.5	373	59
PARTRIDGE	134.9	26X2.57	7X2.00	0.2142	50.2	16.3	373	172
OSTRICH	152.2	26x2.73	7x2.12	0.1906	56.6	17.3	421	193
MERLIN	170.2	18x3.47	1x3.47	0.1692	38.2	17.4	470	74
LINNET	170.6	26x2.89	7x2.25	0.1699	62.8	18.3	472	217
ORIOLE	170.5	30x2.69	7x2.69	0.1704	77.4	18.8	473	311
CHICKADEE	200.9	18x3.77	1x3.77	0.1432	44.3	18.9	555	87
BRANT	201.6	24x3.27	7x2.18	0.1437	64.7	19.6	558	204
IBIS	201.3	26x3.14	7x2.44	0.1438	72.1	19.9	558	256
LARK	200.9	30x2.92	7x2.92	0.1442	88.7	20.5	559	367
PELICAN	242.3	18x4.14	1x4.14	0.1193	52.3	20.7	667	105
FLICKLER	241.6	24x3.58	7x2.39	0.1199	76.8	21.5	670	245
HAWK	241.7	26x3.44	7x2.67	0.1199	86.4	21.8	670	308
HEN	241.3	30x3.20	7x3.20	0.1202	105.9	22.4	672	440
OSPREY	282.5	18x4.47	1x4.47	0.1022	61.0	22.3	777	122
PARAKEET	282.3	24x3.87	7x2.58	0.1026	88.3	23.2	782	285
DOVE	282.6	26x3.72	7x2.89	0.1025	101.1	23.5	781	359
EAGLE	282.1	30x3.46	7x3.46	0.1030	122.9	24.2	783	514
PEACOCK	306.1	24x4.03	7x2.69	0.0945	95.9	24.2	850	311
SQUAB	305.8	26x3.87	7x3.01	0.0945	108.1	24.5	849	390
WOOD DUCK	307.1	30x3.61	7x3.61	0.0947	129.0	25.3	851	559
TEAL	307.1	30x3.61	19x2.16	0.0947	133.4	25.3	851	547
SWIFT	323.0	36x3.38	1x3.38	0.0893	60.7	23.7	888	70
KINGBIRD	323.0	18x4.78	1x4.78	0.0894	69.7	23.9	889	139
ROOK	323.1	24x4.14	7x2.76	0.0899	101.0	24.8	893	326

The above data is approximate and subjected to manufacturing tolerance.



Aluminium Conductor Steel Reinforced (A.C.S.R.)

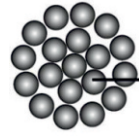


Name	Nominal Cross Sectional Area	Number and Nominal Diameters of Wires		Calculated D.C. Resistance at 20°C ohm/km	Calculated Rated Tensile Strength kN	Approx. Overall Diameter mm	Approx. Weight	
		Aluminium No x ∅ (mm)	Steel No x ∅ (mm)				Aluminium kg/km	Steel kg/km
	mm²							
c-According to ASTM B 232								
GROSBEAK	321.8	26x3.97	7x3.09	0.0900	111.9	25.2	893	409
SCOTER	322.6	30x3.70	7x3.70	0.0900	135.5	25.9	895	588
EGRET	322.6	30x3.70	19x2.22	0.0900	140.6	25.9	895	575
FLAMINGO	337.3	24x4.23	7x2.82	0.0859	105.5	25.4	936	342
GANNET	338.3	26x4.07	7x3.16	0.0857	117.3	25.8	936	429
STILT	363.3	24x4.39	7x2.92	0.0798	113.3	26.3	1005	367
STARLING	361.9	26x4.21	7x3.28	0.0800	126.0	26.7	1004	461
REDWING	362.1	30x3.92	19x2.35	0.0801	154.0	27.5	1006	646
CUCKOO	402.3	24x4.62	7x3.08	0.0720	124.5	27.7	1116	408
DRAKE	402.6	26x4.44	7x3.45	0.0720	139.7	28.1	1117	511
TERN	403.8	45x3.38	7x2.25	0.0720	97.5	27.0	1115	217
COOT	401.9	36x3.77	1x3.77	0.0717	74.7	26.4	1111	87
CONDOR	402.3	54x3.08	7x3.08	0.0720	124.3	27.7	1115	407
MALLARD	403.8	30x4.14	19x2.48	0.0721	171.2	29.0	1119	718
RUDDY	455.5	45x3.59	7x2.40	0.0636	109.4	28.7	1263	246
CANARY	456.3	54x3.28	7x3.28	0.0635	141.0	29.5	1263	461
RAIL	483.8	45x3.70	7x2.47	0.0599	116.1	29.6	1339	261
CATBIRD	484.6	36x4.14	1x4.14	0.0595	87.9	29.0	1335	105
CARDINAL	484.5	54x3.38	7x3.38	0.0599	149.7	30.4	1338	490
ORTLAN	523.9	45X3.85	7x2.57	0.0553	123.3	30.8	1450	283
TANAGER	522.8	36x4.30	1x4.30	0.0551	94.8	30.1	1444	113
CURLEW	522.5	54x3.51	7x3.51	0.0553	161.8	31.6	1450	529
BLUEJAY	565.5	45x4.00	7x2.66	0.0513	132.7	32.0	1562	304
FINCH	565.0	54x3.65	19x2.19	0.0516	174.6	32.8	1571	558
BUNTING	605.8	45x4.14	7x2.76	0.0479	142.4	33.1	1674	326
GRACKLE	602.8	54x3.77	19X2.27	0.0483	186.9	34.0	1681	599
BITTERN	644.4	45x4.27	7x2.85	0.0450	151.6	34.2	1786	348
PHEASANT	645.1	54x3.90	19x2.34	0.0452	194.1	35.1	1795	639
SKYLARK	643.3	36x4.77	1x4.77	0.0448	116.7	33.4	1777	140
DIPPER	684.2	45x4.40	7x2.93	0.0423	160.7	35.2	1897	370
MARTIN	685.4	54x4.02	19x2.41	0.0425	206.1	36.2	1906	679
BOBOLINK	725.2	45x4.53	7x3.02	0.0399	170.5	36.3	2010	392
PLOVER	726.9	54x4.14	19x2.48	0.0401	218.4	37.2	2019	719
NUTHATCH	746.2	45x4.65	7x3.10	0.0379	177.6	37.2	2120	413
PARROT	766.1	54x4.25	19x2.55	0.0380	230.5	38.2	2129	758
LAPWING	807.5	45x4.77	7x3.18	0.0359	187.4	38.2	2232	435
FALCON	806.2	54x4.36	19x2.62	0.0361	243.0	39.2	2242	799

The above data is approximate and subjected to manufacturing tolerance.



Aluminium Alloy Conductor (Type AL-59) Ss4240814



Aluminum Alloy Conductor



Normal Cross Sectional Area Mm2	Number and Nominal Diameter of Wire	Max D.C. Resistance at 20 Degree Celsius	Rated Strength KM	Approx Overall Diameter MM	Approx Weight KG/KM
31	7*2.38	0.943	7.77	7.14	85
99	7*4.25	0.296	22.8	12.75	271
157	19*3.26	0.186	39.7	16.3	436
241	19*4.02	0.123	55.5	20.1	663
329	37*3.37	0.0899	82.5	23.6	910
454	61*3.08	0.0654	113	27.72	1260
593	61*3.52	0.0501	143	31.68	1640
774	61*4.02	0.0384	178	36.18	2140
910	61*4.36	0.0326	209	39.2	2520

The above data is approximate and subject to manufacturing tolerance.



REGIONAL OFFICES

DELHI: delhi@dynamiccables.co.in M.: +91-9887394888
MUMBAI: mkt.mumbai@dynamiccables.co.in | M.: +91-9116188574
VADODARA: mkt.ws@dynamiccables.co.in | M.: +91-7357376888
EXPORT: export@dynamiccables.co.in | M.: +91-9887514888

KOLKATA: mkt.kol@dynamiccables.co.in | M.: +91-9887971888
mkt.east@dynamiccables.co.in | M.: +91-9549296012
HYDERABAD: mkt.hyd@dynamiccables.co.in | M.: +91-7357376888
CHENNAI: mkt.ws@dynamiccables.co.in | M.: +91-7357376888