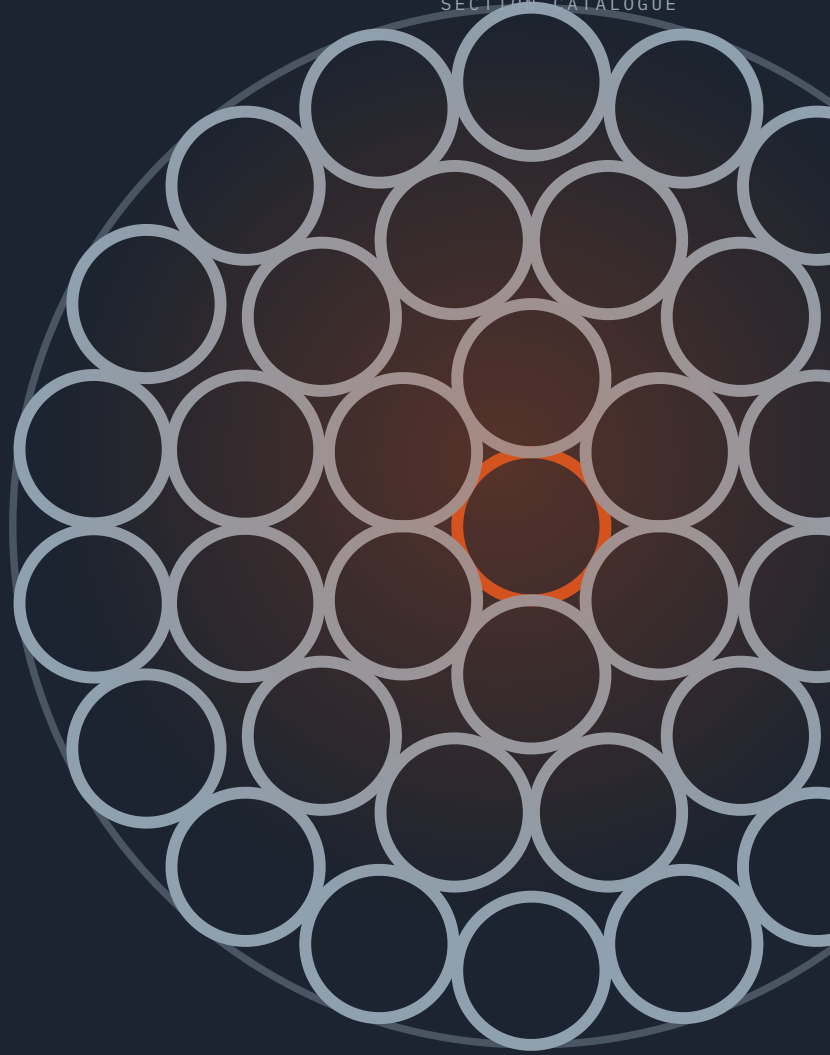




AKZ

ALUMINIUM KOOHRANG ZAGROS

SECTION CATALOGUE



05

ACSR — steel- reinforced conductor

هادی آلومینیوم با مغز فولادی

ASTM B232

DIN 48204

BS 215

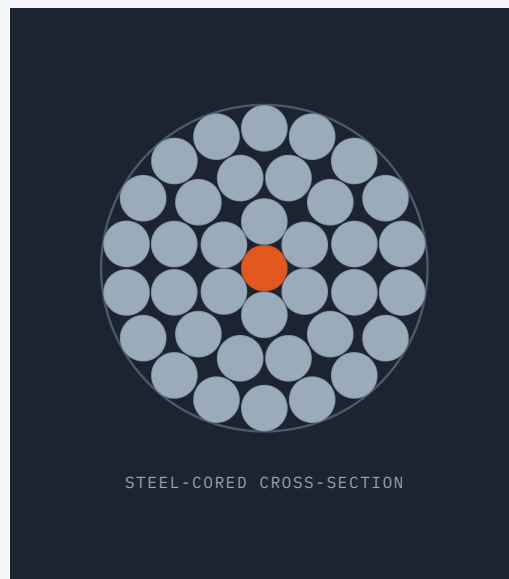
EN 50182

OVERVIEW

Steel-cored, for long spans under tension.

Hard-drawn 1350 aluminium strands over a galvanised-steel core. The steel carries the mechanical load, allowing long spans and high tension; the steel-to-aluminium ratio is selected to match each line's span and loading.

Supplied in the ASTM B232 bird code names, a high-steel subset, the DIN metric series and the BS 215 animal code names.



APPLICATIONS



Long transmission lines



High-tension spans



Heavy-load corridors



River & valley crossings

STANDARDS

ASTM B232

DIN 48204

BS 215

EN 50182

5.1 · Bird-name series

ASTM B232 · galvanised-steel core.

Code	Area mm ²	Al n × mm	Steel n × mm	Ø mm	Al wt kg/km	Steel wt kg/km	DC R Ω/km	Break kN
TURKEY	15.52	6 × 1.68	1 × 1.68	5.04	37	17	2.1045	5.28
THRUSH	19.64	6 × 1.89	1 × 1.89	5.67	46	22	1.6628	6.68
SWAN	24.71	6 × 2.12	1 × 2.12	6.36	58	27	1.3216	8.31
SWALLOW	31.14	6 × 2.38	1 × 2.38	7.14	73	35	1.0486	10.21
SPARROW	39.19	6 × 2.67	1 × 2.67	8.01	92	44	0.8332	12.69
ROBIN	49.48	6 × 3.00	1 × 3.00	9.00	116	55	0.6599	15.82
RAVEN	62.44	6 × 3.37	1 × 3.37	10.11	147	69	0.5230	19.36
QUAIL	78.55	6 × 3.78	1 × 3.78	11.34	185	87	0.4157	23.27
PIGEON	99.30	6 × 4.25	1 × 4.25	12.75	234	110	0.3288	29.42
PENGUIN	125.09	6 × 4.77	1 × 4.77	14.31	294	139	0.2610	37.06
WAXWING	142.48	18 × 3.09	1 × 3.09	15.45	372	58	0.2118	30.27
OWL	153.0	6 × 5.36	1 × 1.79	16.09	372	20	0.2078	42.95
PARTRIDGE	156.86	26 × 2.57	7 × 2.00	16.28	374	174	0.2096	50.24
OSTRICH	176.89	26 × 2.73	7 × 2.12	17.28	422	195	0.1858	56.56
MERLIN	179.68	18 × 3.47	1 × 3.47	17.35	470	74	0.1679	38.18
LINNET	198.38	26 × 2.89	7 × 2.25	18.31	473	217	0.1658	62.77
ORIOLE	210.27	30 × 2.69	7 × 2.69	18.83	474	311	0.1645	77.44
CHICKADEE	212.09	18 × 3.77	1 × 3.77	18.85	554	87	0.1423	43.37
BRANT	227.68	24 × 3.27	7 × 2.18	19.61	559	204	0.1409	64.73
IBIS	234.06	26 × 3.14	7 × 2.44	19.88	558	256	0.1404	72.07
LARK	247.77	30 × 2.92	7 × 2.92	20.44	557	366	0.1393	90.31
PELICAN	255.76	18 × 4.14	1 × 4.14	20.70	669	105	0.1180	52.31
FLICKER	272.98	24 × 3.58	7 × 2.39	21.49	670	245	0.1176	75.68
HAWK	281.12	26 × 3.44	7 × 2.68	21.80	670	308	0.1170	86.74
HEN	297.56	30 × 3.20	7 × 3.20	22.40	671	440	0.1162	105.18
OSPREY	298.16	18 × 4.47	1 × 4.47	22.35	779	122	0.1012	60.98
PARAKEET	318.89	24 × 3.87	7 × 2.58	23.22	783	286	0.1006	88.30
DOVE	328.49	26 × 3.72	7 × 2.89	23.55	783	359	0.1000	101.12
EAGLE	347.88	30 × 3.46	7 × 3.46	24.21	784	514	0.0994	122.97
PEACOCK	345.91	24 × 4.03	7 × 2.69	24.20	849	311	0.0928	95.88
SQUAB	355.62	26 × 3.87	7 × 3.01	24.51	848	389	0.0902	108.16
WOOD DUCK	378.70	30 × 3.61	7 × 3.61	25.25	853	560	0.0913	129.05
TEAL	376.67	30 × 3.61	19 × 2.16	25.24	853	545	0.0914	133.39
KINGBIRD	340.95	18 × 4.78	1 × 4.78	23.88	891	140	0.0885	69.74
ROOK	364.94	24 × 4.14	7 × 2.76	24.84	896	327	0.0879	101.06
GROSBEAK	374.33	26 × 3.97	7 × 3.09	25.15	892	410	0.0878	111.89
SCOTER	397.82	30 × 3.70	7 × 3.09	25.88	897	588	0.0869	135.56
EGRET	396.10	30 × 3.70	19 × 2.22	25.90	897	576	0.0870	140.62
FLAMINGO	380.98	24 × 4.23	7 × 2.82	25.40	935	341	0.0842	105.50
GANNET	393.15	26 × 4.07	7 × 3.16	25.76	938	429	0.0836	117.28
CROW	408.48	54 × 2.92	7 × 2.92	26.28	1003	366	0.0785	115.21

5.1 · Bird-name series (cont.)

(cont.)

Code	Area mm ²	Al n × mm	Steel n × mm	Ø mm	Al wt kg/km	Steel wt kg/km	DC R Ω/km	Break kN
STILT	410.12	24 × 4.39	7 × 2.92	26.31	1007	366	0.0782	113.36
STARLING	421.07	26 × 4.21	7 × 3.28	26.68	1003	462	0.0781	125.97
FINCH	637.58	54 × 3.65	19 × 2.19	32.85	1574	560	0.0505	174.64
BUNTING	647.62	45 × 4.14	7 × 2.76	33.12	1680	327	0.0473	142.44
GRACKLE	679.66	54 × 3.77	19 × 2.27	33.97	1679	602	0.0473	184.22
BITTERN	689.04	45 × 4.27	7 × 2.85	34.17	1787	349	0.0445	151.66
PHEASANT	726.77	54 × 3.90	19 × 2.34	35.10	1797	639	0.0442	194.16
DIPPER	731.09	45 × 4.40	7 × 2.92	35.16	1897	366	0.0419	160.37
MARTIN	772.04	54 × 4.02	19 × 2.41	36.17	1910	678	0.0416	206.12
BOBOLINK	775.39	45 × 4.53	7 × 3.02	36.24	2011	392	0.0395	170.55
PLOVER	818.67	54 × 4.14	19 × 2.48	37.24	2025	718	0.0393	218.44
NUTHATCH	817.01	45 × 4.65	7 × 3.10	37.20	2119	413	0.0375	177.67
PARROT	863.07	54 × 4.25	19 × 2.55	38.25	2134	759	0.0372	230.57
LAPWING	859.72	45 × 4.77	7 × 3.18	38.16	2230	434	0.0356	186.95
FALCON	908.63	54 × 4.36	19 × 2.62	39.26	2246	802	0.0354	243.04
CHUKAR	976.69	84 × 3.70	19 × 2.22	40.70	2516	576	0.0318	227.83

ASTM B232 · aluminium 1350-H19 over galvanised steel. Weights split aluminium / steel.

5.2 · High-steel ("D") subset

ASTM B232 · higher steel ratio for extra-long spans.

Code	Area mm ²	Al n × mm	Steel n × mm	Ø mm	Al wt kg/km	Steel wt kg/km	DC R Ω/km	Break kN
GROUSE	54.65	8 × 2.54	1 × 4.24	9.32	112	110	0.6758	22.87
PETREL	81.71	12 × 2.34	7 × 2.34	11.71	143	236	0.5544	46.16
MINORCA	88.84	12 × 2.44	7 × 2.44	12.22	156	256	0.5099	50.19
LEGHORN	107.98	12 × 2.69	7 × 2.69	13.46	189	312	0.4195	60.68
GUINEA	127.23	12 × 2.92	7 × 2.92	14.63	223	367	0.3560	71.12
DOTTEREL	141.56	12 × 3.08	7 × 3.08	15.42	248	408	0.3200	76.69
DORKING	152.80	12 × 3.20	7 × 3.20	16.03	268	441	0.2964	82.78
COCHIN	169.47	12 × 3.37	7 × 3.37	16.84	297	489	0.2673	91.81
BRAHMA	194.56	16 × 2.86	19 × 2.48	18.14	285	720	0.2798	126.55

5.3 · Metric series

DIN 48204 / EN 50182.

Al/Steel	Al n × mm	Steel n × mm	Ø mm	Al wt kg/km	St wt kg/km	DC R Ω/km	Break kN
16/2.5	6 × 1.80	1 × 1.80	5.40	42	20	1.8332	5.58
25/4	6 × 2.25	1 × 2.25	6.80	65	31	1.1732	8.56
35/6	6 × 2.70	1 × 2.70	8.10	94	45	0.8147	12.06
44/32	14 × 2.00	7 × 2.40	11.20	121	248	0.5932	43.20
50/8	6 × 3.20	1 × 3.20	9.60	132	63	0.5800	16.32
50/30	12 × 2.33	7 × 2.33	11.70	141	234	0.5189	42.27
70/12	26 × 2.85	7 × 1.44	11.70	193	89	0.4032	25.26
95/15	26 × 2.15	7 × 1.67	13.60	260	120	0.2986	33.42
95/55	12 × 3.20	7 × 3.20	16.00	266	441	0.2751	76.21
105/75	14 × 3.10	19 × 2.25	17.50	292	594	0.2471	101.67
120/20	26 × 2.44	7 × 1.90	15.50	335	156	0.2318	42.70
120/70	12 × 3.60	7 × 3.60	18.00	337	558	0.2174	93.51
125/30	30 × 2.33	7 × 2.33	16.10	353	234	0.2182	55.47
150/25	26 × 2.70	7 × 2.10	17.10	411	190	0.1893	51.65
170/40	30 × 2.70	7 × 2.70	18.90	474	314	0.1625	73.17

5.4 · Animal-name series

BS 215 / EN 50182.

Code	Area mm ²	Al n × mm	Steel n × mm	Ø mm	Al wt kg/km	Steel wt kg/km	DC R Ω/km	Break kN
MOLE	12.37	6 × 1.50	1 × 1.50	4.50	29	14	2.6398	4.13
SQUIRREL	24.48	6 × 2.11	1 × 2.11	6.33	58	27	1.3341	7.90
GOPHER	30.62	6 × 2.36	1 × 2.36	7.08	72	34	1.0664	9.61
WEASEL	36.88	6 × 2.59	1 × 2.59	7.77	87	41	0.8854	11.35
FOX	42.79	6 × 2.79	1 × 2.79	8.37	101	48	0.7630	13.17
FERRET	49.48	6 × 3.00	1 × 3.00	9.00	116	55	0.6599	15.23
RABBIT	61.70	6 × 3.35	1 × 3.35	10.05	145	69	0.5292	18.37
MINK	73.64	6 × 3.66	1 × 3.66	10.98	173	82	0.4434	21.80
SKUNK	100.10	12 × 2.59	7 × 2.59	12.95	175	288	0.4200	52.74
BEAVER	87.52	6 × 3.99	1 × 3.99	11.97	206	97	0.3730	25.76
HORSE	116.16	12 × 2.79	7 × 2.79	13.95	203	334	0.3619	61.19
RACCOON	92.42	6 × 4.10	1 × 4.10	12.30	217	103	0.3533	27.20
OTTER	97.90	6 × 4.22	1 × 4.22	12.66	230	109	0.3335	28.82
CAT	111.33	6 × 4.50	1 × 4.50	13.50	262	124	0.2933	32.76
HARE	122.48	6 × 4.72	1 × 4.72	14.16	288	136	0.2666	35.94
DOG	118.53	6 × 4.72	7 × 1.57	14.15	288	106	0.2681	32.69
HYENA	126.43	7 × 4.39	7 × 1.93	14.57	291	160	0.2631	41.13
LEOPARD	148.21	6 × 5.28	7 × 1.75	15.81	360	132	0.2143	40.77
COYOTE	151.80	26 × 2.54	7 × 1.91	15.89	364	102	0.2144	45.93
COUGAR	138.81	18 × 3.05	1 × 3.05	15.25	362	57	0.2171	30.56
TIGER	161.85	30 × 2.36	7 × 2.36	16.52	363	239	0.2127	58.02
– (18/1)	167.46	18 × 3.35	1 × 3.35	16.75	437	69	0.1800	33.93
WOLF	194.93	30 × 2.59	7 × 2.59	18.13	437	288	0.1766	69.24
– (18/1)	194.47	18 × 3.61	1 × 3.61	18.05	508	80	0.1550	39.06
LYNX	226.20	30 × 2.79	7 × 2.79	19.53	507	334	0.1522	79.80
– (18/1)	222.33	18 × 3.86	1 × 3.86	19.30	580	91	0.1355	44.26
PANTHER	261.53	30 × 3.00	7 × 3.00	21.00	586	387	0.1316	92.26
LION	293.85	30 × 3.18	7 × 3.18	22.26	658	435	0.1171	100.49
BEAR	326.11	30 × 3.35	7 × 3.35	23.45	731	482	0.1055	111.26
GOAT	399.97	30 × 3.71	7 × 3.71	25.97	896	591	0.0861	135.80
ANTELOPE	422.59	54 × 2.97	7 × 2.97	26.73	1015	379	0.0744	118.53
BISON	431.17	54 × 3.00	7 × 3.00	27.00	1036	387	0.0729	118.95
SHEEP	462.62	30 × 3.99	7 × 3.99	27.93	1036	684	0.0744	156.32
ZEBRA	484.46	54 × 3.18	7 × 3.18	28.62	1164	435	0.0649	131.94
DEER	529.83	30 × 4.27	7 × 4.27	29.89	1187	783	0.0649	178.60
CAMEL	537.65	54 × 3.35	7 × 3.35	30.15	1292	482	0.0585	145.95
ELK	588.44	30 × 4.50	7 × 4.50	31.50	1318	870	0.0585	198.36
MOOSE	596.98	54 × 3.53	7 × 3.53	31.77	1434	535	0.0527	161.00

BS 215 / EN 50182. Rows marked "– (18/1)" are unnamed 18/1 constructions in the source – insert BS code names if known.



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01 **Aluminium & alloy rod** مفتول آلومینیوم و آلیاژی

03 **AAC** هادی تمام آلومینیوم

06 **ACSR-AW** هادی با مغز فولادی روکش آلومینیوم

08 **Messenger** (مسنجر) هادی مهار آلیاژی

02 **Aluminium welding wire** سیم جوش آلومینیوم

04 **AAAC** هادی تمام آلومینیومی آلیاژی

07 **OPGW** سیم محافظ نوری

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