

AAC EC 1350

All Aluminium Conductor EC 1350

Standard Specification : ASTM B 231 : 2012



Aluminium EC 1350

Technical Properties

Type	Number / Dia. of Wire	Calculated Cross Sect. Area	Approx. Overall Diameter	Approx. Weight	Calculated Breaking Load	DC Resistance at 20° C Max.	Current Carrying Capacity *	Standard Length per Reel
	No. / mm	mm ²	mm	kg/km	kN	Ohm/km	A	m
Bluebonnet	127 / 4.22	1776.3	54.86	4,988	261	0.0165	1,948	500
Trillium	127 / 3.90	1517.1	50.70	4,260	223	0.0194	1,796	1,000
Bitterroot	91 / 4.42	1396.3	48.62	3,883	205	0.0209	1,725	1,000
Lupine	91 / 4.21	1266.8	46.31	3,523	186	0.0230	1,636	1,000
Sagebrush	91 / 3.99	1137.8	43.89	3,164	167	0.0256	1,541	1,000
Cowslip	91 / 3.77	1015.8	41.47	2,825	153	0.0287	1,445	1,000
Jessamine	61 / 4.30	885.8	38.70	2,440	132	0.0325	1,339	1,000
Coreopsis	61 / 4.10	805.4	36.90	2,218	120	0.0358	1,265	2,000
Gladiolus	61 / 4.00	766.5	36.00	2,111	114	0.0376	1,228	2,000
Carnation	61 / 3.89	725.0	35.01	1,997	108	0.0398	1,187	2,000
Columbine	61 / 3.78	684.5	34.02	1,885	104	0.0421	1,146	2,000
Narcissus	61 / 3.67	645.3	33.03	1,777	98.1	0.0447	1,106	2,000
Hawthorn	61 / 3.55	603.8	31.95	1,663	93.5	0.0477	1,061	2,000
Marigold	61 / 3.43	563.6	30.87	1,552	87.3	0.0511	1,017	2,000
Bluebell	37 / 4.25	524.9	29.75	1,446	78.8	0.0549	972	2,000
Larkspur	61 / 3.31	524.9	29.79	1,446	81.3	0.0549	973	2,000
Hawkweed	37 / 4.18	507.7	29.26	1,398	76.2	0.0568	952	2,000
Camellia	61 / 3.25	506.0	29.25	1,394	78.3	0.0570	951	2,000
Magnolia	37 / 4.08	483.7	28.56	1,332	72.6	0.0596	924	2,000
Goldenrod	61 / 3.18	484.5	28.62	1,334	75.0	0.0595	925	2,000
Cockscomb	37 / 3.96	455.7	27.72	1,255	68.4	0.0633	890	2,000
Snapdragon	61 / 3.09	457.4	27.81	1,260	70.8	0.0630	892	2,000
Arbutus	37 / 3.72	402.1	26.04	1,107	61.8	0.0717	822	2,000
Lilac	61 / 2.90	402.9	26.10	1,110	63.8	0.0716	823	2,000
Petunia	37 / 3.62	380.8	25.34	1,049	58.6	0.0757	794	2,000
Cattail	61 / 2.82	381.0	25.38	1,049	60.3	0.0757	795	2,000
Violet	37 / 3.53	362.1	24.71	997	56.7	0.0796	769	2,000

*Note : Ambient temperature : 35° C Continuous operating temperature of conductor : 80° C
wind velocity : 0.5 m/sec Conductivity of Al : 61% IACS

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	No. / mm	mm ²	mm	kg/km	kN	Ohm/km	A	m
Nasturtium	61 / 2.75	362.3	24.75	998	58.4	0.0796	770	2,000
Verbena	37 / 3.49	354.0	24.43	975	55.4	0.0815	758	2,000
Flag	61 / 2.72	354.5	24.48	976	57.1	0.0813	759	2,000
Heuchera	37 / 3.37	330.0	23.59	909	51.7	0.0874	725	2,000
Orchid	37 / 3.33	322.2	23.31	887	50.4	0.0895	714	2,000
Meadowsweet	37 / 3.23	303.2	22.61	835	47.5	0.0951	687	2,000
Dahlia	19 / 4.35	282.4	21.75	778	43.3	0.1021	656	2,000
Mistletoe	37 / 3.12	282.9	21.84	779	44.3	0.1019	657	2,000
Zinnia	19 / 4.12	253.3	20.60	698	38.9	0.1138	612	2,000
Hyacinth	37 / 2.95	252.9	20.65	696	40.5	0.1140	612	2,000
Cosmos	19 / 4.02	241.2	20.10	664	37.0	0.1196	593	2,000
Syringa	37 / 2.88	241.0	20.16	664	38.6	0.1196	593	2,000
Goldentuft	19 / 3.91	228.1	19.55	628	35.0	0.1264	572	2,000
Canna	19 / 3.67	201.0	18.35	554	31.6	0.1434	528	2,000
Daffodil	19 / 3.45	177.6	17.25	489	28.4	0.1623	487	2,000
Tulip	19 / 3.38	170.5	16.90	470	27.3	0.1691	475	2,000
Peony	19 / 3.19	151.9	15.95	418	24.3	0.1899	441	2,000
Daisy	7 / 4.96	135.3	14.88	372	21.4	0.2132	408	2,000
Laurel	19 / 3.01	135.2	15.05	372	22.1	0.2132	409	2,000
Sneezewort	7 / 4.80	126.7	14.40	349	20.1	0.2276	391	2,000
Valerian	19 / 2.91	126.4	14.55	348	20.7	0.2281	392	2,000
Oxlip	7 / 4.42	107.4	13.26	296	17.0	0.2684	352	2,000
Phlox	7 / 3.93	84.9	11.79	234	13.5	0.3395	303	2,000
Aster	7 / 3.50	67.3	10.50	185	11.1	0.4281	261	2,000
Poppy	7 / 3.12	53.5	9.36	147	8.84	0.5387	226	2,000
Pansy	7 / 2.78	42.5	8.34	117	7.30	0.6785	195	2,000
Iris	7 / 2.47	33.5	7.41	92	5.99	0.8595	168	2,000
Rose	7 / 1.96	21.1	5.88	58	3.91	1.3651	125	2,000
Peachbell	7 / 1.56	13.4	4.68	37	2.53	2.1548	94	2,000

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