

BUS BAR SELECTION CHART (ALUMINIUM)

Standard Size	Cross Section Area	Weight	Continuous Current Carrying Capacity in Amps at Temperature - 30 DegC							
			No of Bus for AC				No of Bus for DC			
mm	mm	Kg/ Mtr	I	II	III	IV	I	II	III	IV
12 X 2	23.5	0.063	80	140	-	-	80	145	-	-
15 X 2	29.5	0.080	95	170	-	-	95	175	-	-
15 X 3	44.5	0.120	115	210	-	-	115	220	-	-
20 X 2	39.5	0.107	120	220	-	-	120	225	-	-
20 X 3	59.5	0.161	145	270	-	-	150	280	-	-
20 X 5	99.1	0.268	195	350	-	-	200	370	-	-
25 X 3	74.5	0.201	180	330	-	-	185	340	-	-
25 X 5	124	0.335	230	430	-	-	235	440	-	-
30 X 3	89.5	0.242	205	385	-	-	220	400	-	-
30 X 5	149	0.403	270	500	-	-	275	520	-	-
40 X 3	119	0.323	280	500	-	-	285	525	-	-
40 X 5	199	0.538	350	650	-	-	360	660	-	-
40 X 10	399	1.080	515	975	1350	1800	540	1000	1420	-
50 X 5	249	0.673	425	780	1120	1500	445	815	1220	-
50 X 10	499	1.350	625	1150	1800	2160	655	1220	1730	-
60 X 5	299	0.808	500	900	1300	1730	530	960	1420	1850
60 X 10	599	1.620	730	1330	1900	2500	770	1430	2030	2600
80 X 5	399	1.030	680	1170	1650	2230	700	1260	1850	2400
80 X 10	799	2.160	940	1700	2380	3150	985	1840	2640	3400
100 X 5	499	1.350	820	1440	2000	2600	855	1550	2220	2900
100 X 10	999	2.700	1150	2050	2800	3700	1200	2240	3200	4200
100 X 15	1500	4.040	1450	2500	3350	4400	1500	2750	4000	5200
120 X 10	1200	3.240	1350	2400	3250	4300	1420	2700	3900	5100
120 X 15	1800	4.860	1650	2900	3900	5000	1750	3250	4800	6300
160 X 10	1600	4.320	1750	3000	4150	5300	1850	3450	5000	6500
160 X 15	2400	6.470	2100	3600	4850	6250	2300	4300	6200	8100
200 X 10	2000	5.400	2150	3650	4950	6400	2300	4300	6200	8100
200 X 15	3000	8.090	2550	4200	5800	7300	2850	5250	7650	101000
Notes		1) While selecting the Bus Bar, It Should be derated for the ambient temperature.								
		2) The derating factor is 0.7 for the temperature of 45 to 50 Deg.C								

Indal Handbook For Aluminium Busbar

British Aluminium Company



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Aluminium Busbar Alan Geoffrey Thomas, Paul Joseph Harry Rata, 1960 **Aluminium Busbar Handbook**, 2004
Aluminium Busbar. A Comprehensive Handbook on the Design, Construction and Installation of Aluminium and Aluminium Alloy Busbar Alan Geoffrey THOMAS (and RATA (Paul Joseph Harry)), 1960 **Aluminium Busbars and Connections** British Aluminium Company, 193? **Aluminium Busbar** Comalco Limited, 1969 Noral Rectangular Aluminium Busbar, 1959 Aluminium in Busbars and Connections British Aluminium Company, 1957 **Kynal Aluminium Busbar and Jointing Compound** Imperial Chemical Industries, Ltd, **Proceedings of a Conference on Aluminium Busbars Held November 29, 1966 in London, Etc** Aluminium Development Association, afterwards Aluminium Federation (London), 1967 **Aluminium Busbars and Connections**, 1926 *Aluminium Busbars, Machine and Feeder Connections* British Aluminium Company, 1910 The Current Rating of Aluminium Busbars P. G. Parrott, 1966
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