

# MAXIMUM CONTINUOUS CURRENT CARRYING CAPACITY OF COPPER AND ALUMINIUM FLAT BUSBARS

1. Ratings are for over 50°C ambient temperature in still but unconfined air.
2. Ratings should be reduced by 1% for each 300 metres in excess of 1 000 metres above sea level at which the bars are used.
3. For coated busbars a non-metallic flat finish black paint is recommended.

Bar Size		Cross Section		Weight				Current Load in Amps			
mm	inch	mm <sup>2</sup>	Inch <sup>2</sup>	Kg/m	Lbs/ft	Kg/m	Lbs/ft	Bare	Coated	Bare	Coated
12 x 2	0.472 x 0.0787	24	0.0372	0.209	0.421	0.0633	0.128	110	125	80	100
15 x 2	0.590 x 0.0787	30	0.0465	0.262	0.528	0.0795	0.160	140	155	95	125
15 x 3	0.590 x 0.1181	45	0.0698	0.396	0.798	0.120	0.242	170	185	115	150
20 x 2	0.787 x 0.0787	40	0.0620	0.351	0.708	0.107	0.216	185	205	120	165
20 x 3	0.787 x 0.1181	60	0.0930	0.529	1.066	0.161	0.325	220	245	145	195
20 x 5	0.787 x 0.1968	100	0.1550	0.882	1.778	0.268	0.540	295	325	195	260
25 x 3	0.984 x 0.1181	75	0.1163	0.663	1.336	0.201	0.405	270	300	180	240
25 x 5	0.984 x 0.1968	125	0.1938	1.11	2.238	0.335	0.675	350	395	230	310
30 x 3	1.1181	90	0.1395	0.796	1.605	0.242	0.488	315	355	205	280
30 x 5	1.181 x 0.1968	150	0.2325	1.33	2.681	0.403	0.812	400	450	270	360
40 x 3	1.575 x 0.1181	120	0.1860	1.06	2.137	0.323	0.651	420	460	280	370
40 x 5	1.575 x 0.1968	200	0.1300	1.77	3.568	0.538	1.085	520	600	350	460
10 x 10	1.575 x 0.394	400	0.6200	3.55	7.156	1.08	2.177	760	850	515	670
50 x 5	1.969 x 0.1968	250	0.3875	2.22	4.475	0.673	1.357	630	720	425	560
50 x 10	1.969 x 0.394	500	0.7750	4.44	8.951	1.35	2.721	920	1030	625	820
60 x 5	2.362 x 0.1968	300	0.4650	2.66	5.362	0.808	1.629	760	850	500	670
60 x 10	2.362 x 0.394	600	0.9300	5.33	10.74	1.62	3.266	1060	1200	730	960
80 x 5	3.150 x 0.1968	400	0.6200	3.55	7.156	1.08	2.177	970	1070	680	880
80 x 10	3.150 x 0.394	800	1.240	7.11	14.33	2.16	4.354	1380	1560	940	1250
100 x 5	3.937 x 0.7750	500	0.7750	4.44	8.951	1.35	2.721	1200	1350	820	1080
100 x 10	3.937 x 0.394	1000	1.550	8.89	17.92	2.70	5.443	1700	1880	1150	1520
120 x 10	4.724 x 0.394	1200	1.860	10.7	21.57	3.24	6.532	2000	2200	1350	1800
160 x 10	6.299 x 0.394	1600	4.480	14.2	28.63	4.32	8.709	2500	2800	1750	2300
200 x 10	7.874 x 0.394	2000	3.100	17.8	35.88	5.40	10.16	3000	3350	2150	2850