Busbars & Alutube



A 6063-T6 Aluminium T ubes

6063-T6 ALUMINIUM TUBES CHARACTERISTICS

Dimensions Ø outer Ø inner mm	Section mm^2	Weight kg / m	Admissible Intensity Amp 80 °C	Max. spacing between supports m (1)	Moment of Inertia cm^4	Resisting Bending Moment cm^3
40 / 35	295	0,800	785	5,40	5,20	2,60
40 / 34	349	0,942	820	5,65	6,01	3,00
40 / 32	452	1,200	928	5,90	7,42	3,71
40 / 30	550	1,484	980	6,50	8,59	4,30
45 / 40	334	0,901	870	5,60	7,56	3,36
50 / 44	443	1,196	940	6,40	12,28	4,91
50 / 42	578	1,600	1130	6,90	15,41	6,16
50 / 40	708	1,909	1260	7,50	18,11	7,25
60 / 50	864	2,330	1380	7,90	32,94	10,98
63 / 51	1075	2,901	1640	9,30	44,12	14,01
63 / 47	1382	3,730	1820	10,40	53,37	16,94
68 / 60	804	2,170	1250	7,60	41,34	12,16
70 / 60	1020	2,760	1550	9,20	54,24	15,50
80 / 72	955	2,580	1700	9,40	69,15	17,29
80 / 70	1180	3,181	1890	10,10	83,20	20,80
80 / 68	1394	3,766	2070	10,50	96,11	24,03
80 / 64	1809	4,900	2340	12,30	118,71	29,68
90 / 80	1335	3,604	2135	10,30	121,00	26,89
100 / 92	1205	3,257	2060	10,50	139,22	27,84
100 / 90	1495	4,029	2320	11,40	168,81	33,76
100 / 88	1770	4,784	2520	12,10	196,50	39,30
100 / 84	2312	6,200	2850	14,30	246,48	49,30
100 / 80	2827	7,600	3135	18,50	289,81	57,96
110 / 100	1650	4,453	2480	12,20	227,82	41,42
120 / 110	1806	4,880	2700	13,10	299,19	49,86
120 / 106	2485	6,710	3100	18,50	398,16	66,36
120 / 104	2815	7,600	3340	19,00	443,62	73,94
120 / 100	3456	9,330	3700	20,20	527,00	87,83
150 / 136	3145	8,491	3400	20,00	805,76	107,43
150 / 134	3567	9,631	3890	20,80	902,39	120,32
150 / 125	5340	14,570	4800	24,00	1.286,63	171,55
160 / 140	4712	12,700	4710	24,00	1.331,25	166,41
160 / 148	2903	7,840	3760	19,00	861,85	107,73
200 / 190	3063	8,270	4165	24,00	1.456,87	145,69
200 / 188	3657	9,900	4535	24,00	1.722,00	172,20
200 / 184	4825	13,000	5150	24,00	2.227,45	222,74
200 / 180	5696	16,100	5690	24,00	2.700,99	270,10
250 / 238	4599	12,400	5470	24,00	3.424,87	273,99
250 / 230	7540	20,400	6870	24,00	5.438,11	435,05
250 / 228	8259	22,300	6930	24,00	5.909,71	472,78

(1) Maximum length of manufacturing: 24 m.



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Copper Tubes





COPPER TUBES CHARACTERISTICS						
Dimensions Ø outer Ø inner mm	Section mm^2	Weight kg / m	Admissible Intensity Amp 80 °C	Max. spacing between supports m	Moment of Inertia cm^4	Resisting Bending Moment cm^3
20 / 16	113	1,012	324	3,40	0,46	0,46
25 / 20	176,7	1,580	454	4.15	1.13	0,91
25 / 19	207	1,860	530	5,10	1,28	1,02
30 / 20	389	3,500	942	7.10	3,19	2,13
30 / 25	216	1,930	550	4,70	2,06	1,37
33 / 27	283	2,540	698	5,50	3,21	1,95
35 / 30	255	2,280	645	5,30	3,39	1,94
40 / 35	294	2,630	740	5,80	5,20	2,60
40 / 34	349	3,140	859	6,10	6,01	3,00
40 / 30	550	4,950	1.327	7.20	8,59	4,30
45 / 40	334	2,990	840	6,30	7,56	3,36
45 / 39	396	3,560	959	6,90	8,77	3,90
50 / 45	373	3,340	906	6.80	10,55	4,22
50 / 44	443	3,990	1.071	7,10	12,28	4,91
50 / 42	578	5,200	1.354	7,30	15,41	6,16
50 / 40	706	6,360	1.421	7,60	18,11	7,25
60 / 50	865	7,800	1.550	8,20	32,94	10,98
60 / 55	451	4,040	1.120	7,80	18,70	6,23
63 / 51	1.074	9,670	1.939	9,50	44,12	14,01
70 / 60	1.025	9,050	1,820	9,20	54,24	15,50
80 / 70	1.180	10,500	2.095	10,00	83,20	20,80
80 / 64	1.810	16,280	2.896	12,00	118,71	29,68
100 / 90	1.492	13,300	2.640	11,60	168,81	33,76

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Copper Flat Bars

COPPER FLAT BARS CHARACTERISTICS

Dimensions mm	Section mm²	Weight kg / m	ADMISSIBLE INTENSITY Amp (a.c.)		
			1 unit cooper Flat Bar per phase	2 units cooper Flat Bar per phase	3 units cooper Flat Bar per phase
10x2	20	0,180	90	145	202
10x3	30	0,270	115	187	258
10x4	40	0,360	145	238	325
10x5	50	0,450	170	272	370
15x3	45	0,405	158	255	348
15x4	60	0,540	190	310	424
15x5	75	0,675	214	343	449
20x2	40	0,360	155	254	348
20x3	60	0,540	194	317	435
20x4	80	0,720	227	363	476
20x5	100	0,900	265	425	556
20x6	120	1,080	301	525	715
20x10	200	1,800	460	795	1.050
25x5	125	1,125	320	515	670
25x10	250	2,250	515	900	1.182
30x3	90	0,810	277	455	630
30x4	120	1,080	325	540	740
30x5	150	1,350	369	610	810
30x6	180	1,620	445	765	1.025
30x8	240	2,160	510	888	1.175
30x10	300	2,700	566	930	1.230
40x3	120	1,080	320	534	730
40x4	160	1,440	416	716	955
40x5	200	1,800	470	810	1.075
40x6	240	2,160	520	900	1.190
40x8	320	2,880	635	1.020	1.385
40x10	400	3,600	710	1.100	1.472

Dimensions mm	Section mm²	Weight kg / m	ADMISSIBLE INTENSITY Amp (a.c.)		
			1 unit cooper Flat Bar per phase	2 units cooper Flat Bar per phase	3 units cooper Flat Bar per phase
50x4	200	1,800	500	856	1.160
50x5	250	2,250	565	970	1.310
50x6	300	2,700	625	1.074	1.450
50x8	400	3,600	795	1.320	1.935
50x10	500	4,500	810	1.350	1.980
60x4	240	2,160	560	958	1.275
60x5	300	2,700	657	1.124	1.550
60x6	360	3,240	724	1.240	1.700
60x8	480	4,320	846	1.448	1.980
60x10	600	5,400	975	1.628	2.500
80x5	400	3,600	818	1.386	1.970
80x6	480	4,320	900	1.528	2,180
80x8	640	5,760	1,036	1.750	2.478
80x10	800	7,200	1.190	2.000	2.880
100x5	500	4,500	960	1.600	2.400
100x6	600	5,400	990	1.650	2.556
100x8	800	7,200	1.260	2.056	3.069
100x10	1.000	9,000	1.400	2.340	3.500
120x5	600	5,400	1.005	1.670	2.600
120x6	720	6,480	1.150	1.755	2.704
120x10	1.200	10,800	1.505	2.420	3.625
120x15	1.800	16,200	2.550	4.175	6.250
120x20	2.400	21,600	1.920	4.710	7.095
125x5	625	5,625	1.032	1.692	2.645
125x10	1.250	11,250	1.545	2.462	3.670
150x5	750	6,750	1.200	1.807	2.760
150x10	1.500	13,500	1.980	3.200	4.655



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Copper Bars





ROUND COPPER BARS					
Diámeter mm³	Weight kg / m	Diámeter mm³	Weight kg / m	Diámeter mm³	Weight kg / m
10	0,702	34	8,117	58	23,620
11	0,849	35	8,601	59	24,442
12	1,011	36	9,100	60	25,277
13	1,187	37	9,613	61	26,127
14	1,376	38	10,139	62	26,991
15	1,580	39	10,679	63	27,868
16	1,798	40	11,234	64	28,760
17	2,030	41	11,803	65	29,666
18	2,275	42	12,386	66	30,586
19	2,535	43	12,983	67	31,520
20	2,809	44	13,594	68	32,467
21	3,097	45	14,219	69	33,429
22	3,399	46	14,858	70	34,405
23	3,715	47	15,511	71	35,395
24	4,045	48	16,178	72	36,400
25	4,389	49	16,859	73	37,417
26	4,747	50	17,554	74	38,450
27	5,119	51	18,263	75	39,496
28	5,505	52	18,986	80	44,938
29	5,905	53	19,723	85	50,730
30	6,319	54	20,475	90	56,874
31	6,748	55	21,240	95	63,369
32	7,190	56	22,019	100	70,215
33	7,647	57	22,813	110	84,960

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