

## PROPERTIES OF COPPER PIPE

	Nominal Size Inches (IPS)	Outside Diameter Inches†	Inside Diameter Inches	Wall Thickness Inches	Area		Approx. Weight Lbs./ Ft.	Indoor Capacity for 30°C Temp. Rise	
					Area			NEMA CC1-1984 Ratings	
					Sq. Inches	Sq. CM		Indoors Amps.	Outdoors Amps.
Standard Copper Pipe†	3/8	.675	.494	.0905	.166	1.06	.641	–	–
	1/2	.840	.625	.1075	.247	1.59	.955	380	510
	3/4	1.050	.822	.1140	.335	2.16	1.30	540	710
	1	1.315	1.062	.1265	.472	3.04	1.83	650	850
	1 1/4	1.660	1.368	.1460	.694	4.48	2.69	870	1,120
	1 1/2	1.900	1.600	.1500	.825	5.32	3.20	1,020	1,280
	2	2.375	2.062	.1565	1.09	7.03	4.23	1,250	1,550
	2 1/2	2.875	2.500	.1875	1.58	10.2	6.12	1,700	2,000
	3	3.500	3.062	.2190	2.26	14.6	8.75	2,175	2,550
	3 1/2	4.000	3.500	.2500	2.95	19.0	11.4	2,575	3,050
	4	4.500	4.000	.2500	3.34	21.5	12.9	2,850	3,400
	5	5.563	5.063	.2500	4.17	26.9	16.2	3,450	4,100
	6	6.625	6.125	.2500	5.01	32.3	19.4	4,000	4,700
	8	8.625	8.000	.3125	8.16	52.6	31.6	–	–
	10	10.750	10.019	.3655	11.9	76.8	46.2	–	–
Extra Strong Copper Pipe	1/4	.540	.294	.123	.161	1.04	.624	–	–
	3/8	.675	.421	.127	.219	1.41	.847	–	–
	1/2	.840	.542	.149	.323	2.08	1.25	420	580
	3/4	1.050	.736	.157	.440	2.84	1.71	590	780
	1	1.315	.951	.182	.648	4.18	2.51	750	1,010
	1 1/4	1.660	1.272	.194	.893	5.67	3.46	975	1,250
	1 1/2	1.900	1.494	.203	1.08	6.97	4.19	1,150	1,450
	2	2.375	1.933	.221	1.49	9.68	5.79	1,500	1,850
	2 1/2	2.875	2.315	.280	2.29	14.7	8.84	1,975	2,400
	3	3.500	2.892	.304	3.05	19.7	11.8	2,475	2,950
	3 1/2	4.000	3.358	.321	3.71	23.9	14.4	2,875	3,400
	4	4.500	3.818	.341	4.45	28.8	17.3	3,100	3,800
	5	5.563	4.813	.375	6.11	39.4	23.7	3,850	4,600
	6	6.625	5.751	.437	8.49	54.8	32.9	4,500	5,200
	8	8.625	7.625	.500	12.76	82.6	49.5	–	–
10	10.750	9.750	.500	16.10	104	62.4	–	–	

ASTM-B188

†Standard OD same as rigid steel conduit.