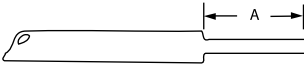


Wire guide table

Stud size and clearance hole chart

Stud size	2	4	6	8	10	¼	⅜	½	⅝	¾	⅞	1
Min. hole dia. (in.)	0.92	0.116	0.143	0.169	0.196	0.262	0.323	0.388	0.453	0.516	0.650	0.775
Min. hole dia. (mm)	2.337	2.946	3.632	4.292	4.978	6.655	8.204	9.855	11.506	13.106	16.510	19.685

Wire strip length chart

Diagram	Wire strip length	Terminal series	Recommend wire strip length "A" standard terminals (in.)
	Non-insulated	A	¼
		B	¼
		C, BC	5/16
	Vinyl insulated — Add 1/16 in. for funnel-entry type	RA	¼
		RB	¼
		RC, RBC	11/32
	Nylon-insulated and Tefzel insulated	RA	7/32
		RB	7/32
		RC, RBC	5/16
	Nylon-insulated and Tefzel insulated when using aircraft and code wire	RD	17/32
		RE	17/32
		RF	9/16
		RG	11/16
		RH	11/16
		RJ	¾
		RK	7/8
	Non-insulated, when using aircraft and code wire	RL	7/8
		RM	1
		D	15/32
		E	15/32
F		½	
G		41/64	
H		43/64	
J		47/64	
K	55/64		
L	55/64		
M	59/64		

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Wire guide table

AWG or AN	Individual strands			Whole conductor		
	Navy shipboard†	No.	Dia. (in.)	Cir. mil. area	Dia. (in.)	Dia. (mm)
22 Wire size						
22	⅜ (1)	1	0.025	642	0.025	0.635
22	⅜ (7)	7	0.010	703	0.030	0.762
AN-22*		7	**	704	0.032	0.813
	½ (21)	21	0.005	525	0.028	0.711
20 Wire size						
20	1 (1)	1	0.032	1,022	0.032	0.813
20	–	7	0.012	1,024	0.036	0.914
20	–	10	0.010	1,005	0.040	1.016
20	–	19	0.007	1,022	0.037	0.940
20	–	26	0.006	1,034	0.039	0.991
AN-20*	–	7	**	1,119	0.040	1.016
–	1 (7)	7	0.013	1,119	0.038	0.965
–	1 (10)	10	0.010	1,005	0.038	0.965
–	1 (26)	26	0.006	1,034	0.042	1.067
18 Wire size						
18	1½ (1)	1	0.040	1,624	0.040	1.016
18	1½ (7)	7	0.016	1,624	0.049	1.245
18	1½ (16)	16	0.010	1,608	0.049	1.245
18	–	19	0.009	1,624	0.046	1.168
18	1½ (41)	41	0.006	1,630	0.049	1.245
AN-18*	2 (7)	7	0.016	1,779	0.048	1.219
16 Wire size						
16	2½ (1)	1	0.051	2,583	0.051	1.295
16	–	7	0.019	2,583	0.058	1.473
16	–	19	0.012	2,601	0.058	1.473
16	–	26	0.010	2,613	0.059	1.499
16	–	65	0.006	2,580	0.058	1.473
AN-16*	2½ (19)	19	0.011	2,407	0.061	1.549
	2½ (26)	26	0.010	2,613	0.061	1.549
14 Wire size						
14	–	1	0.064	4,107	0.064	1.626
14	–	7	0.024	4,107	0.073	1.854
14	–	19	0.015	4,107	0.074	1.880
14	–	37	0.011	4,107	0.074	1.880
14	–	14	0.009	4,157	0.083	2.108
14	–	104	0.006	4,128	0.074	1.880
AN-14*	–	19	**	3,830	0.076	1.930
–	3 (7)	7	0.020	2,828	0.060	1.524
–	3 (19)	19	0.013	3,036	0.063	1.600
–	4 (1)	1	0.064	4,107	0.064	1.626
–	4 (7)	7	0.025	4,497	0.076	1.930
–	4 (19)	19	0.014	3,828	0.072	1.829
–	4 (41)	41	0.010	4,121	0.077	1.956

AWG or AN	Individual strands			Whole conductor		
	Navy shipboard†	No.	Dia. (in.)	Cir. mil. area	Dia. (in.)	Dia. (mm)
12 Wire size						
12	–	1	0.081	6,530	0.081	2.057
12	–	7	0.031	6,530	0.092	2.337
12	–	19	0.019	6,530	0.093	2.362
12	–	37	0.013	6,530	0.093	2.362
12	–	49	0.012	6,593	0.104	2.642
12	–	65	0.010	6,533	0.093	2.362
12	–	104	0.008	6,574	0.094	2.388
12	–	165	0.006	6,559	0.095	2.413
AN-12*	6 (19)	19	0.018	6,088	0.096	2.438
–	6 (7)	7	0.031	6,512	0.092	2.337
–	6 (65)	65	0.010	6,533	0.097	2.964
10 Wire size						
10	–	1	0.102	10,380	0.102	2.591
10	–	7	0.039	10,380	0.116	2.946
10	–	19	0.023	10,380	0.117	2.972
10	–	37	0.017	10,443	0.117	2.972
10	–	49	0.015	10,445	0.131	2.327
10	–	104	0.010	10,452	0.116	2.946
AN-10*	–	37	**	10,380	0.117	2.972
–	9 (7)	7	0.036	9,016	0.108	2.743
–	9 (37)	37	0.016	9,402	0.109	2.769
–	9 (90)	90	0.010	9,045	0.120	3.048

* MIL-W-5086. ** Strand diameter not specified. † MIL-E-16366 A.

Wire guide table

AWG or AN	Individual strands		Whole conductor			
	Navy shipboard†	No.	Dia. (in.)	Cir. mil. area	Dia. (in.)	Dia. (mm)
9 Wire size						
9	–	7	0.043	13,090	0.130	3.302
	14 (7)	7	0.045	14,340	0.136	3.454
8 Wire size						
8	–	7	0.049	16,510	0.146	3.712
8	–	19	0.030	16,510	0.148	3.763
8	–	37	0.021	16,510	0.148	3.763
7 Wire size						
7	–	1	0.144	20,820	0.144	3.662
–	14 (7)	7	0.045	14,340	0.136	3.454
–	14 (140)	140	0.010	14,070	0.145	3.787
6 Wire size						
6	–	7	0.061	25,250	0.184	4.672
6	–	19	0.037	26,250	0.186	4.722
6	–	37	0.027	26,250	0.186	4.722
6	–	49	0.023	26,146	0.208	5.283
6	–	661	0.006	26,274	0.259	6.579
5 Wire size						
5	–	1	0.181	33,100	0.181	4.595
–	20 (49)	7x7	0.020	19,800	0.180	4.570
–	23 (7)	7	0.057	22,800	0.171	4.345
–	23 (228)	19x12	0.010	22,190	0.190	4.830
–	26 (49)	7x7	0.023	26,250	0.210	5.330
4 Wire size						
4	–	7	0.077	41,740	0.232	5.891
4	–	19	0.047	41,740	0.235	5.967
4	–	37	0.034	41,740	0.235	5.967
3 Wire size						
3	–	1	0.229	52,630	0.229	5.819
–	30 (304)	19x16	0.010	30,550	0.220	5.590
–	33 (336)	7x48	0.010	33,370	0.235	5.967
–	40 (19)	19	0.045	38,910	0.226	5.742
–	42 (49)	7x7	0.029	41,740	0.260	6.600
–	42 (209)	19x11	0.014	42,110	0.260	6.600
–	50 (19)	19	0.051	49,080	0.254	6.452

AWG or AN	Individual strands		Whole conductor			
	Navy shipboard†	No.	Dia. (in.)	Cir. mil. area	Dia. (in.)	Dia. (mm)
2 Wire size						
2	–	7	0.097	66,370	0.292	7.421
2	–	19	0.059	66,370	0.296	7.522
2	–	37	0.042	66,370	0.297	7.548
2	–	49	0.037	66,356	0.331	8.405
2	–	133	0.022	66,140	0.335	8.507
AN-2*	–	663	**	66,832	0.345	8.767
–	53 (532)	19x28	0.010	53,470	0.304	7.772
–	60 (37)	37	0.040	60,090	0.282	7.161
–	60 (304)	19x16	0.014	61,260	0.310	7.870
–	66 (133)	19x7	0.022	66,370	0.330	8.380
–	75 (37)	37	0.045	75,780	0.317	8.048
1 Wire size						
1	–	7	0.109	83,690	0.328	8.333
1	–	19	0.066	83,690	0.332	8.431
1	–	37	0.048	83,690	0.333	8.456
1	–	61	0.037	83,690	0.333	8.456
1	–	133	0.025	83,690	0.377	9.578
1	–	259	0.018	83,916	0.378	9.603
AN-1*	–	812	**	81,807	0.384	9.752
–	83 (418)	19x22	0.014	84,230	0.380	9.650
–	84 (2,107)	2107	**	83,690	0.410	10.41

* MIL-W-5086.

** Strand diameter not specified.

† MIL-E-16366 A

Wire guide table

AWG or AN	Navy shipboard†	Individual strands		Whole conductor		
		No.	Dia. (in.)	Cir. Mil. Area	Dia. (in.)	Dia. (mm)
1/0 Wire size						
1/0	–	7	0.123	105,500	0.368	9.343
1/0	–	19	0.075	105,500	0.373	9.476
1/0	–	37	0.053	105,500	0.374	9.502
1/0	–	61	0.042	105,500	0.374	9.502
1/0	–	133	0.028	105,761	0.423	10.721
1/0	–	259	0.020	105,672	0.424	10.772
AN-0*	–	1,033	**	104,118	0.432	10.971
–	100 (61)	61	0.040	99,060	0.363	9.216
–	105 (259)	37x7	**	105,500	0.410	10.410
2/0 Wire Size						
–	105 (2,646)	2,646	**	105,500	0.460	11.680
2/0	–	7	0.138	133,100	0.414	10.512
2/0	–	19	0.084	133,100	0.419	10.639
2/0	–	37	0.060	133,100	0.420	10.670
2/0	–	61	0.047	133,100	0.420	10.670
2/0	–	133	0.032	132,800	0.474	12.042
2/0	–	259	0.023	133,462	0.477	12.118
AN-00*	–	1,327	**	133,665	0.490	12.450
–	125 (61)	61	0.045	124,900	0.407	10.338
–	133 (259)	37x7	**	133,100	0.460	11.680
–	133 (684)	19x36	0.014	137,800	0.480	12.190
–	133 (3,325)	3,325	**	133,100	0.520	13.210
–	150 (61)	61	0.051	157,600	0.457	11.608
3/0 Wire size						
3/0	–	7	0.155	167,800	0.464	11.782
3/0	–	19	0.094	167,800	0.470	11.940
3/0	–	37	0.067	167,800	0.471	11.965
3/0	–	61	0.052	167,800	0.472	11.991
3/0	–	133	0.036	167,607	0.533	13.536
3/0	–	259	0.026	167,402	0.536	13.612
3/0	–	4,227	0.006	168,023	0.610	15.490
–	150 (760)	19x40	0.014	153,100	0.510	12.950
–	168 (427)	61x7	**	167,800	0.520	13.210

AWG or AN	Navy shipboard†	Individual strands		Whole conductor		
		No.	Dia. (in.)	Cir. Mil. Area	Dia. (in.)	Dia. (mm)
4/0 Wire size						
4/0	–	7	0.174	211,600	0.522	13.261
4/0	–	19	0.106	211,600	0.528	13.413
4/0	–	37	0.076	211,600	0.529	13.439
4/0	–	61	0.059	211,600	0.530	13.460
4/0	–	133	0.040	211,736	0.599	15.219
4/0	–	259	0.029	211,845	0.601	15.265
AN-000*	–	1,661	**	167,332	0.548	13.923
–	200 (61)	61	0.057	198,700	0.514	13.652
–	200 (988)	19x52	0.014	199,100	0.580	14.730
250 kcmil Wire size						
250,000	–	19	0.115	250,000	0.574	14.582
250,000	–	37	2	250,000	0.575	14.607
250,000	–	61	0.064	250,000	0.576	14.632
250,000	–	91	0.052	250,000	0.576	14.632
AN-0000*	–	2,104	**	211,954	0.615	15.617
–	220 (259)	37x7	0.029	220,700	0.610	15.490
–	250 (61)	61	0.064	250,000	0.577	14.658

* MIL-W-5086.

** Strand diameter not specified.

†MIL-E-16366 A