

Wire Termination Technical Information

Wire Strip Length Chart



WIRE STRIP LENGTH	TERMINAL SERIES	RECOMMEND WIRE STRIP LENGTH "A" STANDARD TERMINALS
Non-Insulated	A	1/4
	B	1/4
	C, BC	5/16
Vinyl Insulated — Add 1/16" for Funnel Entry Type	RA	1/4
	RB	1/4
	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	3/4
	RK	7/8
	RL	7/8
Non-Insulated, when using Aircraft Code Wire	RM	1
	D	15/32
	E	15/32
	F	1/2
	G	41/64
	H	43/64
	J	47/64
	K	55/64
	L	55/64
	M	59/64

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NAVY		INDIVIDUAL STRANDS		WHOLE CONDUCTOR		
AWG OR AN	SHIPBOARD†	NO.	DIA. IN.	CIR. MIL. AREA	DIA. IN.	DIA. MM
22 Wire Size						
22	3⁄8 (1)	1	.025	642	.025	.635
22	3⁄8 (7)	7	.010	703	.030	.762
AN-22*		7	**	704	.032	.813
	1⁄2 (21)	21	.005	525	.028	.711
20 Wire Size						
20	1 (1)	1	.032	1,022	.032	.813
20		7	.012	1,024	.036	.914
20		10	.010	1,005	.040	1.016
20		19	.007	1,022	.037	.940
20		26	.006	1,034	.039	.991
AN-20*		7	**	1,119	.040	1.016
	1 (7)	7	.013	1,119	.038	.965
	1 (10)	10	.010	1,005	.038	.965
	1 (26)	26	.006	1,034	.042	1.067
18 Wire Size						
18	1½ (1)	1	.040	1,624	.040	1.016
18	1½ (7)	7	.016	1,624	.049	1.245
18	1½ (16)	16	.010	1,608	.049	1.245
18		19	.009	1,624	.046	1.168
18	1½ (41)	41	.006	1,630	.049	1.245
AN-18*	2 (7)	7	.016	1,779	.048	1.219
16 Wire Size						
16	2½ (1)	1	.051	2,583	.051	1.295
16		7	.019	2,583	.058	1.473
16		19	.012	2,601	.058	1.473
16		26	.010	2,613	.059	1.499
16		65	.006	2,580	.058	1.473
AN-16*	2½ (19)	19	.011	2,407	.061	1.549
	2½ (26)	26	.010	2,613	.061	1.549
14 Wire Size						
14		1	.064	4,107	.064	1.626
14		7	.024	4,107	.073	1.854
14		19	.015	4,107	.074	1.880
14		37	.011	4,107	.074	1.880
14		14	.009	4,157	.083	2.108
14		104	.006	4,128	.074	1.880
AN-14*		19	**	3,830	.076	1.930
	3 (7)	7	.020	2,828	.060	1.524
	3 (19)	19	.013	3,036	.063	1.600
	4 (1)	1	.064	4,107	.064	1.626
	4 (7)	7	.025	4,497	.076	1.930
	4 (19)	19	.014	3,828	.072	1.829
	4 (41)	41	.010	4,121	.077	1.956
12 Wire Size						
12		1	.081	6,530	.081	2.057
12		7	.031	6,530	.092	2.337
12		19	.019	6,530	.093	2.362
12		37	.013	6,530	.093	2.362
12		49	.012	6,593	.104	2.642
12		65	.010	6,533	.093	2.362
12		104	.008	6,574	.094	2.388
12		165	.006	6,559	.095	2.413
AN-12*	6 (19)	19	.018	6,088	.096	2.438
	6 (7)	7	.031	6,512	.092	2.337
	6 (65)	65	.010	6,533	.097	2.964
10 Wire Size						
10		1	.102	10,380	.102	2.591
10		7	.039	10,380	.116	2.946
10		19	.023	10,380	.117	2.972
10		37	.017	10,443	.117	2.972
10		49	.015	10,445	.131	2.327
10		104	.010	10,452	.116	2.946
AN-10*		37	**	10,380	.117	2.972
	9 (7)	7	.036	9,016	.108	2.743
	9 (37)	37	.016	9,402	.109	2.769
	9 (90)	90	.010	9,045	.120	3.048

* MIL-W-5086.

** Strand diameter not specified.

† MIL-E-16366 A.

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9 Wire Size						
9		7	.043	13,090	.130	3.302
	14 (7)	7	.045	14,340	.136	3.454
8 Wire Size						
8		7	.049	16,510	.146	3.712
8		19	.030	16,510	.148	3.763
8		37	.021	16,510	.148	3.763
7 Wire Size						
7		1	.144	20,820	.144	3.662
	14 (7)	7	.045	14,340	.136	3.454
	14 (140)	140	.010	14,070	.145	3.787
6 Wire Size						
6		7	.061	25,250	.184	4.672
6		19	.037	26,250	.186	4.722
6		37	.027	26,250	.186	4.722
6		49	.023	26,146	.208	5.283
6		661	.006	26,274	.259	6.579
5 Wire Size						
5		1	.181	33,100	.181	4.595
	20 (49)	7x7	.020	19,800	.180	4.570
	23 (7)	7	.057	22,800	.171	4.345
	23 (228)	19x12	.010	22,190	.190	4.830
	26 (49)	7x7	.023	26,250	.210	5.330
4 Wire Size						
4		7	.077	41,740	.232	5.891
4		19	.047	41,740	.235	5.967
4		37	.034	41,740	.235	5.967
3 Wire Size						
3		1	.229	52,630	.229	5.819
	30 (304)	19x16	.010	30,550	.220	5.590
	33 (336)	7x48	.010	33,370	.235	5.967
	40 (19)	19	.045	38,910	.226	5.742
	42 (49)	7x7	.029	41,740	.260	6.600
	42 (209)	19x11	.014	42,110	.260	6.600
	50 (19)	19	.051	49,080	.254	6.452
2 Wire Size						
2		7	.097	66,370	.292	7.421
2		19	.059	66,370	.296	7.522
2		37	.042	66,370	.297	7.548
2		49	.037	66,356	.331	8.405
2		133	.022	66,140	.335	8.507
AN-2*		663	**	66,832	.345	8.767
	53 (532)	19x28	.010	53,470	.304	7.772
	60 (37)	37	.040	60,090	.282	7.161
	60 (304)	19x16	.014	61,260	.310	7.870
	66 (133)	19x7	.022	66,370	.330	8.380
	75 (37)	37	.045	75,780	.317	8.048
1 Wire Size						
1		7	.109	83,690	.328	8.333
1		19	.066	83,690	.332	8.431
1		37	.048	83,690	.333	8.456
1		61	.037	83,690	.333	8.456
1		133	.025	83,690	.377	9.578
1		259	.018	83,916	.378	9.603
AN-1*		812	**	81,807	.384	9.752
	83 (418)	19x22	.014	84,230	.380	9.650
	84 (2,107)	2107	**	83,690	.410	10.41

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AWG OR AN	NAVY SHIPBOARD†	NO.	DIA. IN.	CIR. MIL. AREA	DIA. IN.	DIA. MM
1/0 Wire Size						
1/0		7	.123	105,500	.368	9.343
1/0		19	.075	105,500	.373	9.476
1/0		37	.053	105,500	.374	9.502
1/0		61	.042	105,500	.374	9.502
1/0		133	.028	105,761	.423	10.721
1/0		259	.020	105,672	.424	10.772
AN-0*		1,033	**	104,118	.432	10.971
	100 (61)	61	.040	99,060	.363	9.216
	105 (259)	37x7	**	105,500	.410	10.410
2/0 Wire Size						
	105 (2,646)	2,646	**	105,500	.460	11.680
2/0		7	.138	133,100	.414	10.512
2/0		19	.084	133,100	.419	10.639
2/0		37	.060	133,100	.420	10.670
2/0		61	.047	133,100	.420	10.670
2/0		133	.032	132,800	.474	12.042
2/0		259	.023	133,462	.477	12.118
AN-00*		1,327	**	133,665	.490	12.450
	125 (61)	61	.045	124,900	.407	10.338
	133 (259)	37x7	**	133,100	.460	11.680
	133 (684)	19x36	.014	137,800	.480	12.190
	133 (3,325)	3,325	**	133,100	.520	13.210
	150 (61)	61	.051	157,600	.457	11.608
3/0 Wire Size						
3/0		7	.155	167,800	.464	11.782
3/0		19	.094	167,800	.470	11.940
3/0		37	.067	167,800	.471	11.965
3/0		61	.052	167,800	.472	11.991
3/0		133	.036	167,607	.533	13.536
3/0		259	.026	167,402	.536	13.612
3/0		4,227	.006	168,023	.610	15.490
	150 (760)	19x40	.014	153,100	.510	12.950
	168 (427)	61x7	**	167,800	.520	13.210
4/0 Wire Size						
4/0		7	.174	211,600	.522	13.261
4/0		19	.106	211,600	.528	13.413
4/0		37	.076	211,600	.529	13.439
4/0		61	.059	211,600	.530	13.460
4/0		133	.040	211,736	.599	15.219
4/0		259	.029	211,845	.601	15.265
AN-000*		1,661	**	167,332	.548	13.923
	200 (61)	61	.057	198,700	.514	13.652
	200 (988)	19x52	.014	199,100	.580	14.730
250 kcmil Wire Size						
250,000		19	.115	250,000	.574	14.582
250,000		37	2	250,000	.575	14.607
250,000		61	.064	250,000	.576	14.632
250,000		91	.052	250,000	.576	14.632
AN-0000*		2,104	**	211,954	.615	15.617
	220 (259)	37x7	.029	220,700	.610	15.490
	250 (61)	61	.064	250,000	.577	14.658

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