

AWG	Bare Copper Diameter (inches)			Resistance (ohms/1000 Ft.)			Type 1			Type 2			Elongation min. %	Dielectric Strength, min. breakdown (Volts)*		Springback max. degr./turn	AWG
							Min. Increase (inches)		Max. Overall Diameter (inches)	Min. Increase (inches)		Max. Overall Diameter (inches)					
	Min.	Nom.	Max.	Film Coating	Self-Bonding Overcoat	Film Coating	Self-Bonding Overcoat										
24.0	0.0199	0.0201	0.0202	24.91	25.55	26.19	0.001	0.0005	0.0227	0.0019	0.0005	0.0238	28	2700	4850	67	24.0
25.0	0.0177	0.0179	0.0180	31.37	32.24	33.10	0.0009	0.0005	0.0203	0.0018	0.0005	0.0214	28	2625	4725	72	25.0
26.0	0.0157	0.0159	0.0160	39.71	40.89	42.07	0.0009	0.0005	0.0182	0.0017	0.0005	0.0193	27	2550	4600	76	26.0
27.0	0.0141	0.0142	0.0143	49.71	50.94	52.17	0.0008	0.0005	0.0164	0.0016	0.0005	0.0173	27	2500	4500	50	27.0
28.0	0.0125	0.0126	0.0127	63.02	64.70	66.37	0.0008	0.0005	0.0147	0.0016	0.0005	0.0156	26	2425	4375	55	28.0
29.0	0.0112	0.0113	0.0114	78.22	80.45	82.68	0.0007	0.0004	0.0133	0.0015	0.0004	0.0142	26	2375	4250	61	29.0
30.0	0.0099	0.0100	0.0101	99.65	102.7	105.8	0.0007	0.0004	0.0119	0.0014	0.0004	0.0128	25	2300	4150	66	30.0
31.0	0.0088	0.0089	0.0090	125.5	129.7	133.9	0.0006	0.0004	0.0108	0.0013	0.0004	0.0115	24	2075	3825		31.0
32.0	0.0079	0.0080	0.0081	154.9	160.6	166.2	0.0006	0.0004	0.0098	0.0012	0.0004	0.0102	24	1850	3525		32.0
33.0	0.0070	0.0071	0.0072	196.1	203.9	211.7	0.0005	0.0004	0.0088	0.0011	0.0004	0.0095	23	1675	3250		33.0
34.0	0.0062	0.0063	0.0064	248.2	259.0	269.8	0.0005	0.0003	0.0078	0.0010	0.0003	0.0084	22	1500	2975		34.0
35.0	0.0055	0.0056	0.0057	312.9	327.9	342.8	0.0004	0.0003	0.0070	0.0009	0.0003	0.0076	21	1325	2750		35.0
36.0	0.0049	0.0050	0.0051	390.8	411.4	431.9	0.0004	0.0003	0.0063	0.0008	0.0003	0.0069	20	1200	2525		36.0
37.0	0.0044	0.0045	0.0046	480.4	508.0	535.7	0.0003	0.0003	0.0057	0.0008	0.0003	0.0062	20	1075	2325		37.0
38.0	0.0039	0.0040	0.0041	604.7	643.3	681.9	0.0003	0.0002	0.0051	0.0007	0.0002	0.0056	19	950	2150		38.0
39.0	0.0034	0.0035	0.0036	784.3	840.7	897.1	0.0002	0.0002	0.0045	0.0006	0.0002	0.0050	18	850	1975		39.0
40.0	0.0030	0.0031	0.0032	992.7	1073	1152	0.0002	0.0002	0.0040	0.0006	0.0002	0.0044	17	775	1800		40.0
41.0	0.0027	0.0028	0.0029	1209	1316	1423	0.0002	0.0002	0.0036	0.0005	0.0002	0.0040	17	700	1675		41.0
42.0	0.0024	0.0025	0.0026	1504	1652	1801	0.0002	0.0002	0.0032	0.0004	0.0002	0.0037	16	625	1525		42.0
43.0	0.0021	0.0022	0.0023	1922	2137	2352	0.0002	0.0001	0.0029	0.0004	0.0001	0.0033	15	550	1400		43.0
44.0	0.0019	0.0020	0.0021	2305	2589	2873	0.0001	0.0001	0.0027	0.0004	0.0001	0.0030	14	500	1300		44.0
	Resistance (ohms/Ft.)																
45.0		0.00176		3.080	3.348	3.616	0.0001	0.0001	0.0023	0.0003	0.0001	0.00255	11				45.0
46.0		0.00157		3.870	4.207	4.544	0.0001	0.0001	0.0021	0.0003	0.0001	0.00235	10				46.0
47.0		0.00140		4.868	5.291	5.714	0.0001	0.0001	0.0019	0.0003	0.0001	0.00210	8				47.0
48.0		0.00124		6.205	6.745	7.285	0.0001	0.0001	0.0017	0.0002	0.0001	0.00185	7				48.0
49.0		0.00111		7.744	8.417	9.090	0.0001	0.0001	0.0015	0.0002	0.0001	0.00170	6				49.0
50.0		0.00099		9.734	10.58	11.43	0.0001	0.0001	0.0014	0.0002	0.0001	0.00160	5				50.0
51.0		0.00088		12.32	13.39	14.46	0.0001	0.0001	0.0013								51.0
52.0		0.00078		15.69	17.05	18.41	0.0001	0.00005	0.00115								52.0

Maximum resistances based upon copper conductivity of 100 % I.A.C.S. Actual values may be up to 102 % I.A.C.S.

45 - 52 AWG theoretical bare wire diameters by resistance at 100% I.A.C.S.

\* Voltage minimums based upon testing according to twisted pair method.