

## PART 63.—CERTIFICATION.

63-01. (1) After having inspected any electrical wiring work the Authorized Inspector, if satisfied that the work has been carried out in accordance with the requirements of these Regulations, shall certify in writing to the electrical supply authority, or, where there is no such authority, then to the Chief Electrical Engineer, that he has duly inspected such work and that the tests are satisfactory, and that to the best of his knowledge and belief the installation may be safely connected with the source from which electrical energy is available.

(2) Nothing in any such certificate shall relieve the owner or occupier of any premises from the obligation to bring any installation into conformity with these Regulations if on any subsequent inspection any defects are discovered which render such installation electrically hazardous.

(3) The electrical supply authority, or the Chief Electrical Engineer, as the case may be, shall, if supply is available, forthwith authorize the person undertaking the work to make the connection, or unless requested to the contrary arrange for the connection to be made.

63-02. (1) Notwithstanding anything to the contrary in the foregoing provisions of this Part of these Regulations, the electrical supply authority may, in case of urgency, permit an installation to be temporarily connected with the source from which electrical energy is available notwithstanding that any one or more of the hereinbefore prescribed insulation resistance tests have not been satisfied; provided that no such permit shall be granted unless the installation otherwise generally complies with the requirements of these Regulations and is certified by the Authorized Inspector to be reasonably free from electrical hazard, nor for a longer period than one month; unless the Chief Electrical Engineer, on the recommendation of the electrical supply authority, extends such period beyond one month.

(2) On the expiration of the period or extended period as aforesaid for which temporary connection has been so permitted the installation shall be disconnected from the source from which electrical energy is available, unless before such expiration the Authorized Inspector has issued his certificate pursuant to the last preceding regulation.

## DIVISION VII.—TABLES.

TABLE I.—DIMENSIONS, WEIGHT, AND RESISTANCE OF SOLID AND STRANDED CIRCULAR CONDUCTORS.

(Standard Annealed Copper.)

Number and Diameter (Inches) of Wires comprising Conductor.	Over-all Diameter of Conductor.	Nominal Area.	Calculated Area.	Weight per 1,000 Yards of Conductor.	Resistance per 1,000 Yards at 60° F.		
					Standard.	Maximum allowable for Plain Wires.	Maximum allowable for Tinned Wires.
1.	2.	3.	4.	5.	6.	7.	8.
	In.	Sq. in.	Sq. in.	lb.	Ohms.	Ohms.	Ohms.
1/.036	0.036	0.001	0.001018	11.77	23.59	24.29	24.53
1/.044	0.044	0.0015	0.001521	17.58	15.79	16.26	16.42
3/.029	0.062	0.002	0.001943	23.37	12.36	12.61	12.85
3/.036	0.078	0.003	0.002994	36.02	8.019	8.180	8.260
1/.064	0.064	0.003	0.003217	37.20	7.463	7.687	7.761
7/.029	0.087	0.0045	0.004546	54.39	5.281	5.387	5.493
7/.036	0.108	0.007	0.007005	83.81	3.427	3.496	3.530
7/.044	0.132	0.01	0.01046	125.2	2.294	2.340	2.363
7/.052	0.156	0.0145	0.01462	174.9	1.643	1.675	1.692
7/.064	0.192	0.0225	0.02214	264.9	1.084	1.106	1.117
19/.044	0.220	0.03	0.02840	340.4	0.8468	0.8637	0.8721
19/.052	0.260	0.04	0.03960	475.5	0.6063	0.6184	0.6244
19/.064	0.320	0.06	0.05999	720.3	0.4002	0.4082	0.4122
19/.072	0.360	0.075	0.07592	911.6	0.3162	0.3225	0.3257
19/.083	0.415	0.1	0.1009	1,211.0	0.2380	0.2427	0.2451
37/.064	0.448	0.12	0.1168	1,403.0	0.2056	0.2097	0.2118
37/.072	0.504	0.15	0.1478	1,776.0	0.1625	0.1657	0.1673
37/.083	0.581	0.2	0.1964	2,360.0	0.1223	0.1247	0.1259
37/.093	0.651	0.25	0.2465	2,963.0	0.09738	0.09933	0.1003
37/.103	0.721	0.3	0.3024	3,635.0	0.07939	0.08098	0.08177
61/.093	0.837	0.4	0.4064	4,886.0	0.05908	0.06026	0.06085
61/.103	0.927	0.5	0.4985	5,994.0	0.04816	0.04913	0.04961
91/.093	1.023	0.6	0.6062	7,290.0	0.03961	0.04040	0.04079
91/.103	1.133	0.75	0.7435	8,942.0	0.03229	0.03294	0.03326
127/.093	1.209	0.85	0.8459	10,175.0	0.02838	0.02895	0.02923
127/.103	1.339	1.0	1.0376	12,481.0	0.02314	0.02360	0.02383