

TABLE II.—COMPARISON BETWEEN THE OLD STANDARD SIZES OF CONDUCTORS AND THE NEW STANDARD SIZES SET OUT IN B.S.S. No. 7.

New Standard.		Old Standard.	
Number and Diameter (Inches) of Wires comprising Conductor.	New Nominal Area.	Number and Gauge or Diameter (Inches) of Wires comprising Conductor.	Old Nominal Area.
1.	2.	3.	4.
1/·036	Sq. in. 0·001	1/20 S.W.G.	Sq. in. 0·001
1/·044	0·0015	—	—
—	—	1/18 ”	0·0018
—	—	3/22 ”	0·0018
3/·029	0·002	—	—
—	—	7/25 ”	0·0022
3/·036	0·003	3/20 ”	0·003
—	—	7/23 ”	0·0031
1/·064	0·003	1/16 ”	0·0032
—	—	7/22 ”	0·0042
7/·029	0·0045	—	—
—	—	7/21½ ”	0·0049
7/·036	0·007	7/20 ”	0·007
—	—	7/19 ”	0·0086
7/·044	0·01	—	—
—	—	7/18 ”	0·0125
7/·052	0·0145	—	—
—	—	7/17 ”	0·017
7/·064	0·0225	7/16 ”	0·022
19/·044	0·03	—	—
—	—	19/18 ”	0·034
—	—	7/14 ”	0·035
19/·052	0·04	—	—
—	—	19/17 ”	0·046
19/·064	0·06	19/16 ”	0·06
19/·072	0·075	19/15 ”	0·075
—	—	19/14 ”	0·094
19/·083	0·1	—	—
37/·064	0·12	37/16 ”	0·117
—	—	19/13 ”	0·125
37/·072	0·15	37/15 ”	0·15
—	—	37/14 ”	0·182
37/·083	0·2	37/·083 in.	0·2
37/·093	0·25	37/·092 ”	0·25
37/·103	0·3	37/·104 ”	0·3
61/·093	0·4	61/·092 ”	0·4
61/·103	0·5	61/·104 ”	0·5
91/·093	0·6	61/·112 ”	0·6
91/·103	0·75	91/·101 ”	0·75
127/·093	0·85	—	—
127/·103	1·0	127/·101 ”	1·0

TABLE III.—FLEXIBLE CABLES. DIMENSIONS AND RESISTANCE OF CONDUCTORS.

(Standard Annealed Copper.)

Number and Diameter of Wires comprising Conductor.				Nominal Area.	Resistance per 1,000 Yards at 60° F.		
Diameter 0·010 in.	Diameter 0·012 in.	Diameter 0·018 in.	Diameter 0·029 in.		Standard.	Maximum allowable for Plain Wires.	Maximum allowable for Tinned Wires.
1.	2.	3.	4.	5.	6.	7.	8.
140	97*	—	—	Sq. in. 0·01	Ohms. 2·29	Ohms. 2·34	Ohms. 2·39
195	—	60*	—	0·0145	1·64	1·68	1·71
296	—	91*	—	0·0225	1·08	1·11	1·13
—	266	117*	—	0·03	0·847	0·864	0·881
—	368	163*	—	0·04	0·606	0·618	0·631
—	557	248*	—	0·06	0·400	0·408	0·416
—	705	313	121*	0·075	0·316	0·323	0·329
—	—	416	160*	0·1	0·238	0·243	0·247
—	—	482	186*	0·12	0·206	0·210	0·214
—	—	610	235*	0·15	0·163	0·166	0·169
—	—	810	312*	0·2	0·122	0·125	0·127
—	—	1,017	392*	0·25	0·0974	0·0993	0·101
—	—	—	481	0·3	0·0794	0·0810	0·0826
—	—	—	646	0·4	0·0591	0·0603	0·0614
—	—	—	792	0·5	0·0482	0·0491	0·0501

* For trailing-cables and similar purposes.