

TABLE XII.—PERMISSIBLE NUMBER OF CABLES IN CONDUITS, AND CAPACITY OF CONDUITS FOR THE DRAWING-IN OF CABLES.

Size of Conduit.			½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.	2½ in.			
Internal Diameter of Conduit (approximate).			0.498 in.	0.606 in.	0.856 in.	1.106 in.	1.34 in.	1.816 in.	2.316 in.			
Number and Diameter (Inches) of Wires comprising Conductor.	Nominal Area of Conductor.	Approximate Over-all Diameter of Cable.	Maximum Permissible Number of Cables.									
			1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
1/.044	Sq. in. 0.0015	In. 0.173	5	8	11	—	—	—	—	—	—	—
3/.029	0.002	0.195	4	6	10	—	—	—	—	—	—	—
3/.036	0.003	0.215	3	5	8	—	—	—	—	—	—	—
7/.029	0.0045	0.226	2	4	6	9	—	—	—	—	—	—
7/.036	0.007	0.259	—	3	5	8	—	—	—	—	—	—
7/.044	0.01	0.287	—	2	4	7	—	—	—	—	—	—
7/.052	0.0145	0.317	—	—	3	5	7	—	—	—	—	—
7/.064	0.0225	0.359	—	—	2	4	7	—	—	—	—	—
19/.044	0.03	0.393	—	—	—	3	5	7	8	—	—	—
19/.052	0.04	0.441	—	—	—	2	4	7	8	—	—	—
19/.064	0.06	0.513	—	—	—	—	3	5	6	—	—	—
19/.072	0.075	0.596	—	—	—	—	—	4	4	—	—	—
19/.083	0.1	0.663	—	—	—	—	—	3	4	—	—	—
37/.064	0.12	0.702	—	—	—	—	—	2	3	—	—	—
37/.072	0.15	0.768	—	—	—	—	—	2	2	—	—	—

(i) The table applies to 250-volt, vulcanized-rubber, braided cables in accordance with British Standard Specification No. 7, and to screwed conduits which comply with British Standard Specification No. 31.

(ii) The grouping in one tube of more than two of the larger cables is not recommended, and where it is done the current rating given in Tables IV, V, and VI hereof should be reduced to ensure that the cables are not overheated.

(iii) It shall be possible to withdraw any conductor and draw in another of equal size in its place without injury (see Regulation 46-11).

(iv) Where wires of different sizes are installed in the same conduit their outside diameter when bunched shall not exceed the diameter of the number of wires permitted in this table.

TABLE XIII.—APPROXIMATE FUSING CURRENTS OF COPPER WIRES IN FREE AIR.

Size.	Diameter of Wire.	Fusing Current.	Maximum Safe-working Current.
1.	2.	3.	4.
S.W.G.	In.	Amps.	Amps.
36	0.0076	6.8	3.4
34	0.0092	8.6	4.3
33	0.010	9.8	4.9
32	0.0108	11.0	5.5
—	0.0120	12.8	6.4
30	0.0124	13.5	6.8
28	0.0148	17	8.6
—	0.018	22	11
24	0.022	30	15
22	0.028	41	21
—	0.029	43	22
20	0.036	62	31
19	0.040	73	37
—	0.044	86	43
18	0.048	98	49
—	0.052	111	56
17	0.056	125	63
16	0.064	156	78
15	0.072	191	96
14	0.080	229	115

The table refers to wires in free air and of the following lengths: 2½ in. to 3½ in. for wires up to 0.018 in. diameter, and not less than 4 in. for larger wires.