

TABLE F.
INSULATION TESTS OF THE COOK STRAIT CABLE FOR THE YEARS ENDED 30th JUNE, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879 RESPECTIVELY, AND TO 31st MARCH, 1880, SHOWING THE RESISTANCE PER KNOT AFTER TWO MINUTES' ELECTRIFICATION IN MEGOHMS (BRITISH ASSOCIATION UNITS OF RESISTANCE).

Date.	No. 1 Wire.		No. 2 Wire.		No. 3 Wire.		Date.	No. 1 Wire.		No. 2 Wire.		No. 3 Wire.		Date.	No. 1 Wire.		No. 2 Wire.		No. 3 Wire.		
	Wires	Wires	Wires	Wires	Wires	Wires		Wires	Wires	Wires	Wires	Wires	Wires		Wires	Wires	Wires	Wires	Wires	Wires	Wires
1867—																					
Sept. 1	473	554	86	812	1870—	1874—	1875—	1876—	1877—	1878—	1879—	1880—	1881—	1882—	1883—	1884—	1885—	1886—	1887—	1888—	1889—
Sept. 30	634	634	446	871	May 28	May 23	Jan. 23	May 24	Jan. 24	May 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24
Oct. 14	547	620	23	622	June 22	June 27	Feb. 23	June 26	Feb. 24	June 26	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24
Nov. 1	598	326	393	893	July 19	July 24	March 25	July 16	March 25	July 24	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25
Nov. 14	574	643	17	763	Aug. 19	Aug. 29	April 23	Aug. 16	April 23	Aug. 29	April 23	April 23	April 23	April 23	April 23	April 23	April 23	April 23	April 23	April 23	April 23
Dec. 2	668	709	105	1,069	Sept. 1	Sept. 24	May 22	Sept. 16	May 22	Sept. 24	May 22	May 22	May 22	May 22	May 22	May 22	May 22	May 22	May 22	May 22	May 22
1868—					Oct. 22	Oct. 26	June 24	Oct. 17	June 24	Oct. 26	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24
June 7*	930	1,094	55	1,094	Nov. 22	Nov. 24	July 24	Nov. 17	July 24	Nov. 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24
Sept. 11	630	946	225	1,069	Dec. 30	Dec. 30	Aug. 23	Dec. 20	Aug. 23	Dec. 30	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23
Sept. 17	697	1,000	77	1,121	1873—	1875—	1876—	1877—	1878—	1879—	1880—	1881—	1882—	1883—	1884—	1885—	1886—	1887—	1888—	1889—	1890—
March 27	467	729	67	1,312	Jan. 24	Jan. 23	Jan. 30	Jan. 24	Jan. 24	Jan. 23	Jan. 30	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24	Jan. 24
April 19	483	748	20	1,173	Feb. 24	Feb. 23	Feb. 24	Feb. 24	Feb. 24	Feb. 23	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24
May 11	502	950	31	1,003	March 25	March 23	March 25	March 25	March 25	March 23	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25
May 17	531	963	15	955	April 24	April 23	April 24	April 24	April 23	April 24	April 23	April 23	April 23	April 23	April 23	April 23	April 23	April 23	April 23	April 23	April 23
May 22	522	931	14	1,288	May 23	May 22	May 23	May 23	May 22	May 23	May 22	May 22	May 22	May 22	May 22	May 22	May 22	May 22	May 22	May 22	May 22
July 27	649	1,104	9	1,444	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24	June 24
Aug. 24	607	1,200	13	1,123	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24	July 24
Sept. 27	754	1,275	13	1,481	Aug. 25	Aug. 23	Aug. 25	Aug. 25	Aug. 23	Aug. 25	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23	Aug. 23
Oct. 1	852	1,159	5	1,079	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23	Sept. 23
Nov. 8	638	865	2	981	Oct. 1	Oct. 23	Oct. 1	Oct. 1	Oct. 23	Oct. 1	Oct. 23	Oct. 1	Oct. 1	Oct. 1	Oct. 1	Oct. 1	Oct. 1	Oct. 1	Oct. 1	Oct. 1	Oct. 1
Dec. 3	526	707	3	938	Nov. 23	Nov. 24	Nov. 23	Nov. 23	Nov. 24	Nov. 23	Nov. 24	Nov. 23	Nov. 23	Nov. 23	Nov. 23	Nov. 23	Nov. 23	Nov. 23	Nov. 23	Nov. 23	Nov. 23
1870—					Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28	Dec. 28
Jan. 22	417	619	306	979	1872—	1876—	1877—	1878—	1879—	1880—	1881—	1882—	1883—	1884—	1885—	1886—	1887—	1888—	1889—	1890—	1891—
Feb. 22	442	619	306	979	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30	Jan. 30
March 18	344	619	306	979	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24	Feb. 24
March 20	344	619	306	979	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25	March 25

* This test was taken with zinc to earth; all the others with copper to earth. † No tests taken. ‡ Cable broken.

TABLE G.
INSULATION TESTS OF SECOND COOK STRAIT CABLE FOR THE YEARS ENDED 30th JUNE, 1877, 1878, AND 1879; ALSO, FOR THE NINE MONTHS ENDED 31st MARCH, 1880, SHOWING THE RESISTANCE PER KNOT AFTER TWO MINUTES' ELECTRIFICATION IN MEGOHMS (BRITISH ASSOCIATION UNITS OF RESISTANCE). LENGTH OF CABLE LAID, 44,315 KNOTS.

Date.	Copper Resistance per Knot in Ohms.		Inductive Capacity per Knot in Microfarads.	Dielectric Resistance per Knot.		Date.	Copper Resistance per Knot in Ohms.		Inductive Capacity per Knot in Microfarads.	Dielectric Resistance per Knot.	
	Wires	Wires		Fifty Cells.	Fifty Cells.		Wires	Wires		Fifty Cells.	Fifty Cells.
March 12, 1877*	11,5085	2,870	3385	2,396	1,897	April 24, 1879	308	379	2,168	1,613	...
March 24 "	...	2,141	...	2,323	1,727	May 24 "	291	584	1,707	1,350	...
April 24 "	...	2,857	3351	2,052	1,777	June 24 "	407	680	1,810	1,724	...
May 24 "	...	2,347	...	1,992	1,777	July 25 "	333	715	2,227	1,678	...
June 23 "	...	2,674	...	1,876	1,715	August 23 "	398	820	1,818	1,723	...
July 23 "	...	2,833	...	2,404	1,450	September 24 "	407	991	1,818	1,146	...
August 24 "	...	2,538	...	1,708	1,518	October "	370	...	...	...	...
September 24 "	...	2,834	...	2,008	1,546	November 24 "	313	...	1,502	...	...
October 24 "	...	2,813	...	2,008	1,455	December 24 "	366	...	1,548	...	...
November 24 "	...	2,358	...	1,879	1,436	January 24, 1880	407	...	1,030	...	...
December 24 "	...	2,251	...	1,879	1,436	February 24 "	370	...	1,431	...	...
January 24, 1878	...	2,126	...	1,214	1,217	March 24 "	370	...	1,558	...	...
February 23 "	...	1,887	...	1,697	1,372						

* First test taken immediately after laying. † No test taken.