



History of the Atlantic Cable & Undersea Communications

from the first submarine cable of 1850 to the worldwide fiber optic network

Cable Timeline: 1845-1900

by Bill Glover

Click on the Route links to see cable samples, the Company or Operator links for full descriptions, the ship name links to see descriptions or images.

Atlantic cables and their connecting systems are highlighted in green, and cable repairs have a blue background.

John Seymour links in the Timeline between 1875 and 1897 are to the descriptions of those voyages in Dougal Watson's extensive section on his ancestor's life at sea.

Please note that Timeline entries within each year are not necessarily in chronological order, as the exact date of laying is often not known.

Entries on this page with detailed manufacturing records in the notes column, as well as those listing repairs at the end of each year, have information from the Telcon *Record Book of Submarine Cables Manufactured and Laid by the TC&M Company. Volume 1: 1850-1912*. High resolution scans of this book were made by its present curator, [Alcatel-Lucent](#) of Greenwich, successor to the Telegraph Construction & Maintenance Company, and were provided to the Atlantic Cable website by Allan Green. Thanks as always to Bill Glover for his meticulous transcription of these records.

Year	Route	Manufacturer	Company or Operator	Cable Ships	Notes
1845	Laid between HMS Blake and HMS Pique in Portsmouth Harbour	S.W. Silver & Co	S.W. Silver & Co	HMS Blake - HMS Pique	Charles West of S.W. Silver & Company manufactured one mile of cable insulated with rubber and carried out tests on it in Portsmouth Harbour. He subsequently obtained permission from HM Government to lay a cable across the English Channel, but was unable to raise the necessary capital so the idea was dropped.
1849	Laid between Princess Clementine and the shore at Folkestone Harbour		The South Eastern Railway Company	Princess Clementine	Experimental cable laid by C.V. Walker
1850	Dover, England - Calais, France	Gutta Percha Co 25 nm	Submarine Telegraph Co	Goliath - HMS Widgeon	System 25 nm. CABLE: 1 copper wire No 16 BWG covered with gutta percha to No 2 BWG. 8 or 16lb lead weights were attached to the cable as it was laid to help it sink,. Cable was cut by French fisherman after three days

1851	Dover, England - Calais, France (St Margarets Bay - Sangatte No 1)	Gutta Percha Co supplied the core. - R.S. Newall & Co - Wilkins & Wetherly	Submarine Telegraph Co	HMS Blazer (1) - HMS Fearless - Red Rover (1)	System 25½ nm. CABLE: 4 copper wires No 16 BWG each covered with gutta percha to No 2 BWG, then formed into a cable. The spaces were packed with tarred yarn and a further layer of gutta percha was added. Tarred hemp was wrapped around the core then it was armoured with 10 No 1 BWG iron wires. Cable ran out before reaching France. A temporary repair was made. Red Rover laid replacement a month later. Taken over by the GPO in 1890. Wilkins & Wetherley were awarded the contract to add the armouring, but in doing so they infringed Newall's patent and so the bulk of the work was carried out by Newall's
1852	Holyhead, Wales - Howth, Ireland	Gutta Percha Co supplied the core. - R.S. Newall & Co 70 nm	R.S. Newall & Co	Britannia (1)	System 65 nm. CABLE: 1 copper wire No 16 BWG, covered with gutta percha and 12 No 12 BWG galvanised iron wires. Failed after three days
1852	Donaghadee, Ireland - Portpatrick, Scotland	Gutta Percha Co supplied the core. - R. S. Newall & Co 26 nm	English & Irish Magnetic Telegraph Co.	Britannia (1)	CABLE: 1 copper wire No 16 BWG covered with gutta percha to No 4 BWG (Centre wire). 3 copper wires No 16 BWG covered with gutta percha to No 2 BWG and 12 No 2 BWG iron wires. Expedition abandoned after 15 nm laid. Cable recovered by Monarch (1)
1852	Prince Edward Island - New Brunswick (Northumberland Strait)	Gutta Percha Co supplied the core. - R.S. Newall & Co	Newfoundland Electric Telegraph Co	Ellen Gisborne	System 12 nm. Failed within a year
1853	Denmark (The Belts)	Gutta Percha Co supplied the core. - R.S. Newall & Co 18 nm.	Danish Government	?	System 15 nm. CABLE: 3 copper wires No 18 BWG covered with gutta percha to No 2 BWG armoured with 9 No 2 BWG wires.
1853	Dover, England - Ostend, Belgium	Gutta Percha Co supplied the core. - R.S. Newall & Co - Kuper & Co	Submarine Telegraph Co	William Hutt	System 76 nm. 6 copper wires No 16 BWG covered with gutta percha to No 2 BWG, and 12 No 2 iron wires. Taken over by GPO in 1890
1853	Donaghadee, Ireland -	William L. Gilpin	Electric Telegraph	Albert, assisted by	Uninsulated conductor - laying abandoned

			Company of Ireland	Asp	
1853	Portpatrick, Scotland				
1853	Donaghadee, Ireland - Mora Bay, Portpatrick, Scotland	Gutta Percha Co supplied the core. - R.S. Newall & Co	English & Irish Magnetic Telegraph Co	William Hutt, assisted by Conqueror and Wizard	System 25 nm. CABLE: 6 copper wires No 16 BWG covered with gutta percha to No 2 BWG. These were then bedded on a core of yarn and the whole covered with gutta percha. 12 No 2 BWG iron wires were used for armouring. Total weight 7 tons per nm. Taken over by GPO in 1870
1853-1855	Orfordness, England - Scheveningen, Holland	Gutta Percha Co supplied the core. - R.S. Newall & Co - Spencer & Thomas Ltd	Electric & International Telegraph Co	Monarch (1)	Four individual cables were laid. May, June, September 1853 and September 1855. 119 nm, 118 nm, 123 nm, 119 nm. CABLE: Each consisted of 1 no 16 BWG copper wire covered with gutta percha to No 1 BWG, taped, covered with yarn and armoured with 10 No 8 BWG galvanised iron wires. Newall's sub contracted the work to Spencer & Thomas Ltd.
1853	Firth of Tay	Gutta Percha Co supplied the core. - R. S. Newall & Co	Electric & International Telegraph Co	Monarch (1)	3 cables each of 1 nm similar to those used between England and Holland.
1853	Firth of Forth	Gutta Percha Co supplied the core. - R.S. Newall & Co	Electric & International Telegraph Co	Monarch (1)	System 4 nm. 4 cables similar to those used between England and Holland
1854	Portpatrick, Scotland - Whitehead, Ireland	Gutta Percha Co supplied the core. - R.S. Newall & Co 27 nm.	British Telegraph Company (later the British & Irish Magnetic Telegraph Co)	Monarch (1), assisted by Conqueror and Wizard	System 26 nm. CABLE: 6 copper wires No 16 BWG covered with gutta percha to No 2 BWG. These were then bedded on a core of yarn and the whole then being covered with gutta percha. 12 No 2 BWG iron wires were used for armouring. Total weight 7 tons per nm. Taken over by GPO in 1870
1854	Sweden - Denmark	Gutta Percha Co supplied the core. - Kuper & Co 12 nm	Swedish - Danish Governments	Christopher Hague	System 9 nm. CABLE: 3 copper conductors No 16 BWG individually covered with gutta percha and then all covered in gutta percha. Armouring 10 No. 2 BWG black iron wires. One conductor failed in 1862
1854	Stralsund - Danholm Island	Felten & Guilleaume	?		System 1nm.
1854	Spezia - Corsica	Gutta Percha	French PTT	Persian	System 110 nm. CABLE: 6 copper conductors No. 16

		Co supplied the core. - Glass Elliot & Co - Kuper & Co 12 nm			BWG individually covered with gutta percha and then all covered to No. 1 BWG. Armouring 12 No. 1 BWG iron wires
1854	Corsica - Sardinia	Gutta Percha Co supplied the core. - Glass Elliott & Co - Kuper & Co	French PTT	Persian	System 11 nm. CABLE: 6 copper conductors No 16 BWG individually covered with gutta percha and then all covered to No 1 BWG. Armouring 12 No. 1 BWG iron wires. In use until 1864 when it was abandoned.
1854	Holyhead, Wales - Howth, Ireland	Gutta Percha Co supplied the core. - Fenton & Hyde	Electric & International Telegraph Co	Monarch (1)	System 65 nm. CABLE: 1 No 16 BWG copper wire covered with gutta percha to No 0 BWG and 10 wires No 8 BWG. Expedition failed.
1854	Hurst Castle - Keyhaven	Gutta Percha Co supplied the core. - R.S. Newall & Co	Electric & International Telegraph Co	Monarch (1)	System 1 nm. CABLE: 1 copper wire No 16 BWG covered with gutta percha to No 0 BWG and 12 iron wires No 2 BWG. Linked Osborne House to the mainland
1855	Sardinia - Algeria	Gutta Percha Co supplied the core. - Glass Elliott & Co - Kuper & Co	Mediterranean Extension Telegraph Co	Result - Dutchman	System 150 nm. CABLE: 6 copper conductors No. 16 BWG individually covered with gutta percha then all covered to No. 1 BWG. Armouring 12 No. 1 iron wires. Result was towed by the steamer Tartar. Cable ran out too quickly and eventually parted. Elba recovered 60 nm of cable in 1858.
1855	Constantinople - Varna (Crimea)	Gutta Percha Co supplied the core. - R.S. Newall & Co	Ottoman Government	Elba	System 150 nm. CABLE: 1 copper wire No 16 gauge covered with gutta percha to No 2 BWG and covered with spun yarn. Only the shore ends were armoured. See below.
1855	Varna - Balacalava - Eupatoria (Crimea) Article by Walter Peterson on this cable	Gutta Percha Co supplied the core. - R.S. Newall & Co	British Government	Argus	System 310 nm. CABLE: 1 copper wire No 16 BWG covered with gutta percha to No 1 BWG. Shore ends only covered with 12 or 10 wires. See above.
1855	Egypt	Gutta Percha	Egyptian	?	System 10 nm with 4 copper conductors each coated with

		Co supplied the core. - Glass Elliott & Co - Kuper & Co	Government		gutta percha then all covered to No 2 BWG armoured with 10 No. 1 BWG black iron wires.
1855	Canitello, Italy - Ganzirri, Sicily	Gutta Percha Co supplied the core. - Glass, Elliot & Co	Italian PTT	?	System 5½ nm. 3 copper conductors No. 16 BWG each covered with gutta percha then all covered to No 2 BWG. Armoured with 10 No. 1 BWG black iron wires.
1855	Sardinia - Algeria	Gutta Percha Co supplied the core. - Glass Elliott & Co	Mediterranean Extension Telegraph Co	Dutchman - Result	System 160 nm. CABLE: 3 copper conductors No. 17 BWG, individually covered with gutta percha then all covered with gutta percha to No. 2 BWG. Armouring 10 No. 2 BWG iron wires. Cable again ran out too quickly and parted. R.S. Newall's Star recovered part of the cable
1855	Holyhead, Wales - Howth, Ireland	Gutta Percha Co supplied the core. - R.S. Newall & Co	Electric & International Telegraph Co	Monarch (1)	
1855	Cape Ray Newfoundland - Cape North: Cape Breton Island (unsuccessful)	Gutta Percha Co supplied the core: R. S. Kuper, Glass & Co	New York Newfoundland and London Telegraph Co	Sarah Bryant	System 74 nm. CABLE: 1 copper conductor No. 14 BWG covered with gutta percha. Armouring, main cable 12 No. 9 BWG, shore end 12 No. 4 BWG iron wires. Sarah Bryant was taken in tow by James Adger. Cable cut due to bad weather. The core had been supplied to Kuper & Co., but was armoured by R.S. Kuper, Glass & Co. Glass later bought Kuper out.
1856	Bosphorus	Gutta Percha Co supplied the core. - R.S. Newall & Co	?	?	System 1 nm.
1856	Amazon River	Gutta Percha Co supplied the core. - R.S. Newall & Co	?	?	System 105 nm.
1856	Lake Constance	Felten & Guilleaume	?	?	System 7 nm.

1856	St Petersburg - Kronstadt	Gutta Percha Co supplied the core. - R.S. Newall & Co	?	?	System 10 nm.
1856	Cape Ray Newfoundland - Cape North:Cape Breton Island	Gutta Percha Co supplied the core: R. S. Kuper, Glass & Co	New York Newfoundland and London Telegraph Co	Propontis	System 85 nm. CABLE: 1 copper conductor comprising 7 strands No 14 BWG wire, 6 wrapped around 7th then covered with gutta percha. Armouring, main cable 12 No 9 BWG bright iron wires and shore ends 12 No. 4 BWG black iron wires. Laid on 10 July taking 15 hours to complete.
1856	Prince Edward Island - New Brunswick	Gutta Percha Co supplied the core: R. S. Kuper, Glass & Co	New York Newfoundland and London Telegraph Co	Propontis	System 12 nm. CABLE: 1 copper conductor consisting of 7 strands No 22 BWG wire, 6 wrapped around the 7th then covered with gutta percha to No 1 BWG. Armouring, main cable 12 No. 9 BWG bright iron wires, shore ends 12 No 4 BWG black iron wires.
1856	Cape Breton Island - Nova Scotia	Gutta Percha Co supplied the core - Glass & Co	?	?	System 1½ nm. CABLE: as Prince Edward Is - New Brunswick cable
1856	Across the River Humber, England	?	Electric Telegraph Co.	Wilberforce (Tug)	System 2 nm. Weight of cable 4 tons. Cable laid 23 April
1857	Sardinia - Malta - Corfu	Gutta Percha Co supplied the core. - R.S. Newall & Co	Mediterranean Extension Telegraph Co	Elba - Blazer (2)	System 700 nm 1 copper wire No 16 BWG. Cables failed in 1859 and 1861
1857	Ceylon - India	Gutta Percha Co supplied the core. - Henley's Telegraph Works	Indian Government	?	System 30 nm. CABLE: 1 copper conductor consisting of 7 strands No. 14 BWG wire, 6 wrapped around 7th, then covered with gutta percha. Armoured with 12 No. 8 BWG iron wires.
1857	Cagliari, Sardinia - Bona, Algeria	Gutta Percha Co supplied the core. - R.S. Newall & Co 150 nm.	?	Elba	System 125 nm. Cable ran out too quickly. Temporary repair made. Blazer (2) laid replacement
1857	Valentia, Ireland	Gutta Percha	New York	HMS	HMS Agamemnon loaned by Royal Navy to lay cable

	- Bay Bull Arm, Trinity Bay, Newfoundland See also this article	Co supplied the core for the 1857 and 1858 expeditions. - Glass Elliot & Co - 1250 nm for 1857 attempt and a further 900 nm for the 1858 attempt. R.S. Newall & Co 1250 nm for 1857 cable.	Newfoundland and London Telegraph Co	Agamemnon - USS Niagara - Willing Mind laid Valentia shore end.	manufactured by Glass Elliot & Co. USS Niagara loaned by the US navy to lay cable manufactured by R.S. Newall & Co. Expedition failed. 385 nm of cable laid. Leipsig recovered 39 nm of cable.
1857	Danube River Crossing	Gutta Percha Co. supplied the core - Glass Elliot & Co	?	?	System 3 nm. CABLE: 1 copper conductor consisting of 7 strands No. 14 BWG wire, 6 wrapped around 7th then covered with gutta percha to No.1 BWG. Armouring 12 No 9 BWG iron wires.
1857	Norway Fiords	Gutta Percha Co. supplied the core - Glass Elliot & Co	Norwegian Government	William Cory	System 49 sm CABLE: 1 copper conductor consisting of 7 strands No. 14 BWG wire, 6 wrapped around 7th then covered with gutta percha to No. 1 BWG. Armoured with 10 No. No 6 BWG iron wires.
1858	Norway Fiords	Gutta Percha Co. supplied the core - Glass Elliot & Co	Norwegian Government	William Cory	System 16 nm. CABLE: 1 copper conductor comprising 7 strands No. 14 BWG wire, 6 wrapped around 7th then covered with gutta percha to No. 1 BWG. Armoured with 10 No 6 BWG iron wires.
1858	Dunwich, England - Zandvoort, Holland	Gutta Percha Co supplied the core. - Glass Elliot & Co 140 nm	Electric & International Telegraph Co	William Cory	System 129 nm. CABLE: 4 copper conductors No 13 BWG individually covered with gutta percha and then all covered with gutta percha to No. 0 BWG Armouring 10 No 00 BWG iron wires. Two conductors were also coated with Chatterton's Compound. Taken over by GPO in 1870. During laying the cable was sabotaged requiring a repair to one of the conductors.
1858	Dardanelles - Chios - Smyrna -	Gutta Percha Co supplied	Levant Telegraph	?	System 450 nm

	Candia	the core. - R.S. Newall & Co	Company		
1858	Athens - Syra - Chios	Gutta Percha Co supplied the core. - R.S. Newall & Co	Greek Government	?	System 150 nm
1858	England - Alderney	Gutta Percha Co supplied the core. - R.S. Newall & Co 102 nm	Channel Islands Telegraph Co - Electric & International Telegraph Co	Elba	System 69 nm. CABLE: 1 copper wire No 14 BWG covered with gutta percha to No 7 BWG and 9 No 6 BWG galvanised iron wires
1858	Alderney - Guernsey	Gutta Percha Co supplied the core. - R.S. Newall & Co 18 nm.	Channel Islands Telegraph Co - Electric & International Telegraph Co	Elba	System 17.25 nm. CABLE: 1 copper wire No 14 BWG covered with gutta percha to No 7 BWG and 9 No 6 BWG galvanised iron wires
1858	Guernsey - Jersey	Gutta Percha Co supplied the core. - R.S. Newall & Co	Channel Islands Telegraph Co - Electric & International Telegraph Co	Elba	System 15 nm. CABLE: 1 copper wire No 14 BWG covered with gutta percha to No 7 BWG and 9 No 6 BWG galvanised iron wires
1858	Valentia, Ireland - Bay Bull Arm, Trinity Bay, Newfoundland See also this article	Glass Elliot & Co 900 nm in addition to that left from the 1857 expedition. Total carried on this expedition 3000 nm. 100 nm was brought back to England; the remainder	Atlantic Telegraph Co	HMS Agamemnon - USS Niagara - Industry recovered 40 nm of cable at Newfoundland.	System 2200 nm. CABLE: 7 strands of copper wire, six wrapped around the seventh, No 22 BWG covered with three coats of gutta percha to No 4 BWG. This was wrapped in jute yarn soaked with a composition consisting of 5/12 Stockholm tar, 5/12 pitch, 1/12 boiled linseed oil and 1/12 common bees wax. Armouring consisted of 18 strands each strand composed of 7 of the best charcoal iron wires, six wrapped around the seventh, each of 22 BWG. The completed cable as it left the machine was dipped in a heated composition consisting of tar, pitch and linseed oil. The cable worked with variable results for three weeks, the last complete message being received on September 1st 1858. Attempts to revive the cable continued, and fragments of messages were

		was used in the earlier attempts which took place in 1858.			received, but the last signs of life were on October 28th 1858. The cable was abandoned less than three months after its inception.
1858	Reggio Calabria, Italy - Castella de Messina, Sicily	Gutta Percha Co supplied the core. - Glass Elliot & Co. 10 nm	Kingdom of the Two Sicilies	Principe Carlo - assisted by Veloce and Misano of the Royal Navy of the Kingdom of the Two Sicilies	System 8 nm. 1 copper conductor No 16 BWG, covered with gutta percha. Armoured with 10 No. 1 BWG iron wires. Cable was purchased in 1855.
1858	Naples, Italy - Islands of Ishia and Procida	Gutta Percha Co supplied the core. - Glass Elliot & Co.	Kingdom of the Two Sicilies	Principe Carlo - assisted by Maria Teresa	The remaining 2 nm of the above cable was used for this link
1858	Cromer, England - Emden, Germany	Gutta Percha Co supplied the core. - Glass Elliot & Co.	Submarine Telegraph Co	William Cory	System 280 nm. CABLE: 2 copper conductors each of 4 strands No 16 BWG wire, coated with Chattertons Compound and gutta percha, then covered with gutta percha to No. 3 BWG. Armouring, main cable 12 No 6½ BWG, shore ends 10 No. 00 iron wires.
1858	Vinkenpolder - Norderney	Felten & Guilleaume	?	?	System 4 nm.
1859	Millwall - Deptford	S.W. Silver & Co	John Scott Russell		This river cable connected the Great Eastern at anchor on the Thames to the shipyard where it was under construction
1859	Ceuta, (Morocco) - Algiceras Spain	Gutta Percha Co supplied the core. - Henley's Telegraph Works	Spanish Government	Tweedside	System 25 nm. 1 copper wire No 14 BWG. Cable completed 21 December.
1859	Cape Otway, Victoria - King Island - Three Hummock Island - Circular Head -	Gutta Percha Co supplied the core. - Henley's Telegraph	Tasmanian & Victoria Governments	Omes	System 140 nm. CABLE: 1 copper wire No 16 BWG covered with gutta percha to No 1 BWG and 10 No 8 BWG best annealed iron wires. The contract to install the cable was won by Messrs McNaughton & Co. of Launceston and they in turn contracted Henley's to

	Low Head, Tasmania	Works 240 nm.			manufacture and lay the cable. The first fault occurred three weeks after the cable was brought into use. It suffered from chafing due to the shoals and rocks on the sea bed around King Island as well as damage from ships anchors. It was finally abandoned on 24 January 1861
1859	Otranto, Italy - Valona, Albania	Gutta Percha Co supplied the core. - R.S. Newall & Co	Italian Government	?	System 50 nm. 1 copper wire No 13 BWG.
1859	Suez - Kossier - Suakin - Aden - Hallani - Muscat -Karachi	Gutta Percha Co supplied the core. - R.S. Newall & Co	Red Sea & India Telegraph Co.	Imperador - Imperatriz - Berwick	System 255 + 474 + 627 + 718 +486 + 481 nm. Cable: 7 wire strands weighing 180lbs per nm, covered with 4 coatings of gutta percha to Chattertons patent, 212 lbs per nm., hemp serving 1½ cwt per nm. 18 armouring wires of best selected charcoal iron 16 cwt per knot. Total weight 21 cwt per nm. All sections had been abandoned by 1861
1859	Singapore - Muntok, Banca (Bangka): Muntok - Palembang: Muntok - Batavia (Jakarta)	Gutta Percha Co supplied the core. - R.S. Newall & Co 630 nm	Dutch East Indies Government	Bahiana	System 550 nm. 60 nm of cable was laid upriver to Palembang using proas (local craft) to carry the cable. Completed 24 November 1859 (<i>Guardian</i>)
1859	Malta - Sicily	Gutta Percha Co supplied the core - Glass Elliot & Co	Mediterranean Extension Telegraph Co	Berwick	System 60 nm. CABLE: 1 copper conductor consisting of 7 strands No 22 BWG wire, 6 wrapped around 7th each strand coated with Chattertons Compound and then all covered in gutta percha to No. 1 BWG. Cable then wrapped then wrapped in tanned jute. Armoured main cable with 10 No. 5 BWG and shore ends with 10 No. 2 iron wires.
1859	Great Orme's Head - Point Lynas, Anglesey, Wales	Gutta Percha Co supplied the core - Glass Elliot & Co	Liverpool Docks Committee	Omeo	System 19 nm. including entry below. CABLE: 2 copper conductors No 16 BWG coated with gutta percha to No. 3 BWG, and armoured with 12 iron wires No 6 BWG. These three cables linked with the landline of 56 miles. This section of cable suffered frequent damage from storms and ships anchors and was replaced by a landline in 1860
1859	Voel Nant, Wales - Hilbre Island,	Gutta Percha Co supplied	Liverpool Docks	Omeo	See above Laid 6 July 1859 (<i>Manchester Guardian</i>)

	off Liverpool	the core - Glass Elliot & Co	Committee		
1859	Hilbre Island - Hoylake	Gutta Percha Co supplied the core. - Glass Elliot & Co	Liverpool Docks Committee	Resolute	See above
1859	Birkenhead - Liverpool, across the River Mersey	Gutta Percha Co supplied the core. - Glass Elliot & Co	Liverpool Docks Committee	?	See above
1859	Sweden - Gotland	Gutta Percha Co supplied the core - Glass Elliot & Co	Swedish Government	Berwick	System 64 nm. CABLE: 1copper conductor consisting of 7 strands No. 14 BWG wire, 6 wrapped around 7th, coated with Chattertons Compound then covered with gutta percha to No. 1 BWG. Armouring, main cable 12 No. 9 BWG bright iron wires,shore ends 10 No. 1 BWG iron wires.
1859	Whitehaven, England - Isle of Man	Gutta Percha Co supplied the core. - Glass Elliot & Co	Isle of Man Telegraph Co	Resolute	System 36 nm. CABLE: 1 copper conductor consisting of 7 strands No 16 BWG wire, 6 wrapped around 7th then covered in gutta percha to No. 2 BWG . Armoured with 10 No. 6 BWG wires. All covered with hemp soaked in Bright and Clarks Composition (heated tar, pitch and linseed oil) Taken over by the GPO in 1870. Abandoned in 1875. Part of the cable was recovered by CS Caroline.
1859	Verclut, Jersey - Pirou, France	Gutta Percha Co supplied the core. - Glass Elliot & Co	Submarine Telegraph Co	Resolute	System 21 nm. CABLE: 1 copper conductor consisting of 7 strands No. 14 BWG wire, 6 wrapped around 7th, then covered with gutta percha. Armoured wit 12 No. 5 BWG iron wires.
1859	Abbotscliff, England - Cap Gris Nez, France No 1	Gutta Percha Co supplied the core. - Glass Elliot & Co	Submarine Telegraph Co	Berwick	System 24 nm. 6 copper conductors each of 4 strands No. 14 BWG wire, coated with Chattertons Compound and gutta percha then all covered with gutta percha to No. 3 BWG, and covered with tanned jute. Armouring 12 No 0 BWG annealed iron wires. Taken over by the GPO in 1890. St Margarets Museum, Dover has cable sample LDBTM 2321, ex BT Museum
1859	Heligoland -	Gutta Percha	Submarine	Berwick	System 46 nm. CABLE: 3 copper conductors each of 4

	Denmark	Co supplied the core. - Glass Elliot & Co	Telegraph Co		strands No. 16 BWG wire, coated with Chattertons Compound and gutta percha, then all covered with gutta percha to No. 3 BWG. Armouring, main cable 12 No. 5 BWG, shore ends 10 No. 2 iron wires.
1859	Cromer, England - Heligoland	Gutta Percha Co supplied the core. - Glass Elliot & Co 376 nm	Submarine Telegraph Co	William Cory	System 328 nm. CABLE: 3 copper conductors consisting of 4 strands No. 16 BWG wire, coated with Chattertons Compound then covered with gutta percha, then all covered with gutta percha to No. 3 BWG. Armouring, main cable 12 No. 5 BWG, shore ends 10 No. 2 iron wires.
1859	Piraeus - Syra - Chios	Gutta Percha Co supplied the core. - R.S. Newall & Co	Greek Government	Elba	
1859	Candia - Alexandria	Gutta Percha Co supplied the core. - R.S. Newall & Co	R.S. Newall & Co	Elba	Two attempts were made; both failed. 150 nm of cable laid at the first attempt and 292 nm at the second.
1859	Alexandria Harbour	Gutta Percha Co supplied the core - Glass Elliot & Co	Egyptian Government	?	System 2 nm. CABLE: 4 copper conductors each consisting of No. 16 BWG wire each covered with gutta percha, then all covered with gutta percha to No. 2 BWG. Armouring consisted of 10 No. 1 BWG black iron wires
1859	India River Crossings	Gutta Percha Co supplied the core. - Glass Elliot & Co	British Government	?	System 10 nm. CABLE: 1 copper conductor consisting of 7 strands No. 13 BWG wire, 6 wrapped around the 7th, then covered with gutta percha. Armoured with 9 No. 2 BWG iron wires
1859	Suez, Egypt - Juzur Jubal, Al-Bahr El_ahmar (Jubal Island)	?	?	?	System 220 sm with 1 conductor
1860	Dacca - Arrakan, India	Gutta Percha Co supplied the core. - Henley's	British Government	?	System 116 nm. 1 copper wire No 13 BWG.

		Telegraph Works			
1860	The Great Belt (Denmark)	Gutta Percha Co supplied the core. - Henley's Telegraph Works	Danish PTT	?	System 14 + 14 nm. CABLE: 2 cables laid. 1 cable consisted of 6 copper wires No 16 BWG covered with gutta percha to No 1 BWG and 12 No 10 iron wires the other 3 copper wires No 16 BWG covered with gutta percha to No 1 BWG and 10 No 10 BWG iron wires.
1860	Barcelona - Balearic Islands (Minorca - Majorca - Ibiza - San Antonia)	Gutta Percha Co supplied the core. - Henley's Telegraph Works 478 nm	Spanish Government	Stella	System 381 nm. CABLE: Barcelona - Minorca 1 copper wire No 14 BWG covered with gutta percha to No 1 BWG and 16 iron wires No 12½ BWG.. The rest 2 copper wires No 16 BWG covered with gutta percha to No 3 BWG and 18 No 11½ iron wires.
1861	Algeria - France	Gutta Percha Co supplied the core. - Glass Elliot & Co 520 nm	French PTT	William Cory	System 520 nm. CABLE: 1 copper conductor comprising 7 strands No 14 BWG wire, 6 wrapped around 7th then coated with Chattertons Compound and covered with gutta percha to No. 0 BWG and then wrapped in tanned jute. Armouring, main cable 10 No 14 BWG steel wires, each wire wrapped in 5 strands of hemp, shore ends 10 No. 0 BWG, 2nd shore ends 10 No. 5 BWG iron wires. Cable parted when about 60 miles from Toulon. William Cory recovered the cable in shallow water around the Balearic Islands and ran the cable into Minorca. After loading more cable started laying from Toulon to Minorca but collided with her escort and had to buoy the cable and return to port for repairs. On attempting to recover the cable it was lost in 1300 fathoms, too deep for recovery, the scheme was then abandoned. Brunswick succeeded in recovering 28 nm of the cable.
1861	Port Vendres, France - Minorca	Gutta Percha Co supplied the core. - Glass Elliot & Co	French PTT	Brunswick	See above. Cable laid to link up with the diverted Algeria - France cable at Minorca. The whole cable was abandoned in 1862.
1861	Otranto, Italy - Corfu	Gutta Percha Co supplied the core. - Glass Elliot & Co 90 nm	Mediterranean Extension Telegraph Co	William Cory	System 90 nm. CABLE: 1 copper conductor consisting of 7 No 14 BWG wires, 6 wrapped around 7th and coated with Chattertons Compound, then covered with gutta percha to No. 0 BWG, and then covered with tanned jute. Armouring, main cable 10 No. 5½ BWG annealed iron

					wires, shore ends 10 No. 2 BWG. iron wires. See the 1861 Algeria-France page for an identical cable.
1861	Toulon, France - Corsica	Gutta Percha Co supplied the core. - Glass Elliot & Co 250 nm	French PTT	Brunswick	System 195 nm. CABLE: 1 copper conductor comprising 7 strands No. 14 BWG wire, 6 wrapped around 7th, then covered with gutta percha to No.0 BWG, and then covered with tanned jute. Armouring, main cable 10 No 14 steel wires each covered with 5 strands of hemp, shore ends 12 No. 1 BWG iron wires.
1861	Norway Fiords	Gutta Percha Co supplied the core. - Glass Elliot & Co	Norwegian Government	?	System 27 nm. CABLE: 1 copper conductor comprising 7 strands No. 14 BWG wire, 6 wrapped around the 7th, then covered with gutta percha to No. 1 BWG. Armouring, 10 No. 6 BWG iron wires
1861	Malta - Tripoli - Benghazi - Alexandria	Gutta Percha Co supplied the core. - Glass Elliot & Co	Operated by Glass, Elliott & Co., on behalf of the British Government	Rangoon - Malacca - Queen Victoria (Wrecked in the English Channel) - Rangoon laid Tripoli - Benghazi and Benghazi - Alexandria sections. Malacca laid Malta - Tripoli section.	System 230 + 508 + 593 nm. CABLE: 1copper conductor comprising 7 strands No. 22 BWG wire, 6 wrapped around 7th then coated with Chattertons Compound, then covered with gutta percha to No. 0 BWG, all wrapped in tarred hemp. Armouring, main cable 18 No. 11 BWG bright iron wires, shore ends 12 No. 3 BWG, 2nd shore ends 12 No. 5 BWG iron wires. Cable ordered in 1859 to be laid between Falmouth & Gibraltar. This was changed to Rangoon - Singapore and finally Malta - Alexandria. Malta - Tripoli and Benghazi - Alexandria cables abandoned in 1871.
1861	Holyhead, Anglesey - Howth, Ireland	Gutta Percha Co supplied the core. - R.S. Newall & Co - Spencer & Thomas Ltd	Electric Telegraph Company	Monarch (1)	System 64 sm CABLE: 1 copper conductor No 16 BWG wire covered with gutta percha to No 1 BWG, taped, covered with yarn and armoured with 10 No 8 BWG galvanised iron wires. The cable used for this lay had been salvaged by Monarch (1) in 1859 from the Company's 1853-5 Orfordness - Scheveningen circuit.
1861	Newhaven, England - Dieppe, France	Gutta Percha Co supplied the core - Glass Elliot & Co	Submarine Telegraph Co	Asia	System 80 nm. 6 copper conductors No 16 BWG, each covered in gutta percha, then all covered in gutta percha to No. 1 BWG and armoured with 12 No. 1 BWG iron wires. Part of the Sardinia - Africa cable.Taken over by the GPO in 1890. Various sources list the English landing point as Beachy Head,

					Holywell (Eastbourne), and Newhaven, and the number of conductors as four or six. The Gutta Percha cable-laying records show six conductors, and list the route as Newhaven-Dieppe, so perhaps this was the originally planned landing point, or just the name of the nearest large settlement. The cable was made in 1854 for a line between Sardinia and Algiers; part of it was lost in an unsuccessful attempt to carry out the line, and the remainder was laid across the Channel in 1861. By that time, only four of the six conductors were in working order.
1862	Lake Constance	Felten & Guilleaume	?	?	
1862	Lowestoft, England - Zandvoort, Holland	Gutta Percha Co supplied the core. - Glass Elliot & Co	Electric & International Telegraph Co	William Cory	System 125 nm. 4 copper conductors No 13 BWG, each coated with 2 layers of Chattertons compound and one of gutta percha, all covered with gutta percha to No. 0 BWG, then wrapped in tanned jute. Armoured with 10 No. 0 BWG iron wires then wrapped in jute dipped in Bright & Clarks Composition. Taken over by GPO in 1870. Laid in late July, engineers Canning and Clifford
1862	Abermawr, Wales - Wexford, Ireland	S. W. Silver supplied the core. - Glass Elliot & Co	Electric & International Telegraph Co	Berwick	System 63 nm CABLE: 4 copper conductors each of 7 strands No. 14 BWG wire, 6 wrapped around 7th coated with Chattertons Compound, then covered with gutta percha to No. 1 BWG, and wrapped in tanned jute. Armouring 12 No. 3 BWG iron wires, cable then wrapped in jute dipped in Bright and Clarks Composition (Heated tar, pitch and linseed oil) S.W. Silver installed the connecting landlines in Ireland. Taken over by the GPO in 1870
1862	Cork Harbour, Ireland	Gutta Percha Co supplied the core. - Henley's Telegraph Works	?	?	System 5 nm
1862	Blackwater Harbour, Wexford, Ireland	Gutta Percha Co supplied the core. - Henley's Telegraph Works	?	?	System 5 nm
1862	Cape Clear - Greencastle	Gutta Percha Co supplied	?	Resolute	System 2 nm. CABLE: 3 copper conductors of No. 16 BWG each coated with Chattertons Compound and gutta

		the core. - Glass Elliot & Co			percha then all coated with gutta percha to No. 3 BWG and wrapped in tanned jute. Armoured with 12 No 6½ BWG iron wires.
1863	England - Wales (Across the Bristol Channel)		British & Irish Magnetic Telegraph Co.	Resolute	Laid 2 November
1863	Cape Clear - Baltimore, Ireland		British & Irish Magnetic Telegraph Co.	Resolute?	System 2nm. Cable laid in November.
1863	Sicily - Sardinia	Gutta Percha Co supplied the core. - Glass Elliot & Co	Italian PTT	Hawthorns	System 211 nm. CABLE: 1 copper conductor consisting of 7 strands No 12 BWG wire, 6 wrapped around 7th then coated with Chattertons Compound and covered with gutta percha No 0 BWG, and wrapped in tanned jute. Armouring, main cable 14 No. 10½ BWG charcoal iron wires, intermediate 12 No 9 BWG, shore ends 12 No 2 BWG.
1863	Queensland	Gutta Percha Co supplied the core. - Glass Elliot & Co	Queensland Government		System 8 nm. CABLE: 1 copper conductor consisting of 7 strands No. 14 BWG wire, 6 wrapped around 7th coated with gutta percha to No. 1 BWG then wrapped in tanned jute. Armoured with 12 No. 9 BWG bright iron wires.
1864	Egypt	Gutta Percha Co supplied the core. - Glass Elliot & Co			System 5½ + 8 nm. CABLE: 3 copper conductors No. 16 BWG individually coated with Chattertons Compound and gutta percha, then covered with gutta percha to No. 4 BWG. Armoured with 12 No. 8 iron wires. 1st cable shipped aboard SS Divinia and 2nd aboard SS Earl de Grey
1864	France - Spain	Siemens & Halske	French PTT	Dix Decembre	
1864	Persian Gulf: Gwadar - Karachi: Gwadar - Cape Mussendom - Bushire - Fao	Gutta Percha Co supplied the core. - Henley's Telegraph Works 1250 nm	Indian Government	Marion Moore - Kirkham - Assaye - Tweed - Cospatrick - Amberwitch	System 268 + 291 + 500 + 157 nm. 1 copper wire.
1864	Oran, Algeria - Cartagena, Spain	Siemens & Halske	French Government	Dix Decembre [renamed	Three attempts were made as part of the French Government's planned connection between France and Algeria (via Spain); all were unsuccessful. Part of the

				Ampere (1) in 1870]	cable was recovered and laid between Bona, Algeria and Marsala, Sicily
1864	Otranto, Italy - Valona, Albania	Gutta Percha Co supplied the core. - Henleys Telegraph Works	Italian PTT	Semaphore	System 58 nm. Conductor coated with Chatterton's compound then 3 layers of gutta percha to No 0 BWG. Then wrapped in tarred hemp and covered with steel armouring wires with a further wrapping of tarred hemp. 6 nm of shore end coated with Messrs Bright and Clarke's compound.
1864	Queensland	Glass Elliot & Co	Queensland Government	?	System 11 + 10 nm. CABLE: 1 copper conductor of No. 22 BWG coated with Chattertons Compound and covered with gutta percha to No. 1 BWG. Armoured with 12 No. 9 iron wires. 1st cable shipped aboard SS Warren Hastings
1864	United States	Gutta Percha Co supplied the core. - Glass Elliot & Co	?	?	System 10 nm. CABLE: 3 copper conductors No. 16 BWG, each coated with Chattertons Compound and gutta percha then all covered in gutta percha to No. 3 BWG. Armouring consisted of 12 No. 5½ BWG iron wires. Shipped aboard SS Stetson.
?	Piombino - Elba	?	?	?	System 8 nm
?	Dardanelles	R.S. Newall & Co	?	?	System 1 nm
?	Zuyder Zee	Henley's Telegraph Works	?	?	
1865	Fort Monroe - Cherrystone (both in Virginia, USA)	Gutta Percha Co supplied the core. - Glass Elliot & Co	?	?	System 30 nm. CABLE: 1 copper conductor No. 14 BWG coated with Chattertons Compound and then covered with gutta percha to No. 1 BWG. Armoured with 12 No. 8 BWG galvanised iron wires. Outer coating of Bright and Clarks Composition. Shipped aboard SS Thebes.
1865	Sylt - Tondern (Denmark)	Gutta Percha Co supplied the core. - R.S. Newall & Co	Danish PTT	?	System 7 nm
1865	Stralsund - Arkona - Trelleborg - Rugen	Gutta Percha Co supplied the core. - Henley's	Swedish & Prussian Governments	Caroline	

		Telegraph Works			
1865	South Foreland, England - Cap Gris Nez, France	India Rubber Gutta Percha & Telegraph Works	Submarine Telegraph Co	?	System 25 nm
1865	Valentia, Ireland - Heart's Content, Newfoundland	W.T. Henley Telegraph Works manufactured the Irish shore end of 27 nm. Telcon manufactured the main cable 2300 nm.	Atlantic Telegraph Co	Great Eastern - Caroline - Medway - Albany - Hawk	System 1896 nm. CABLE: 1 copper conductor comprising 7 strands No. 18 BWG, 6 wrapped around 7th. Coated with 3 layers of Chattertons Compound and then 3 layers of gutta percha all wrapped in tarred jute. Armouring, main cable 10 No. 13 BWG homogeneous bright iron wires each wire wrapped in 5 strands tanned manilla, shore ends 10 No. 13 BWG plus 12 strands of 3 No. 5 BWG. Caroline laid Valentia shore ends. Cable lost about 600 nm from Newfoundland. After the successful laying of the 1866 cable, Great Eastern picked up the end of the 1865 cable and completed the run. See below. The 1865 cable was abandoned in 1877.
1865	India	Hoopers Telegraph Works made the core - Henley's Telegraph Works	Indian Government	Amberwitch	System 160 nm.
1865	Sardinia - Algeria	Gutta Percha Co supplied the core. - Glass Elliot & Co	Italian PTT	Hawthorns	System 270 nm
1866	Corsica - Leghorn (Livorno), Italy	Telcon supplied the core. - Siemens Bros	Italian Government	Dix Decembre	System 65 nm. Laid 22 January 1866 (Guardian)
1866	Marsala, Sicily - Bizerte, Tunisia - Bona, Algeria	Siemens & Halske	French Government	?	Used part of the 1864 cable from Oran, Algeria - Cartagena, Spain, which was recovered after it failed.
1866	Crimea -	Siemens Bros	?	?	System 40 nm

	Circassia				
1866	India - Ceylon	Hoopers Telegraph Works supplied the core - Henley's Telegraph Works	Indian Government	Amberwitch	System 29 nm.
1866	Cook Strait No 1 : Whites Bay, South Island - Lyall Bay, North Island, New Zealand	W T Henley Telegraph Works	NZ PTT	Weymouth - Sturt - Taranaki - Wild Duck	System 46 nm. Three conductors. First attempt failed when cable parted. Completed at second attempt.
1866	South Foreland, England - La Panne Belgium	Telcon supplied the core. - W.T. Henley Telegraph Works Co	Submarine Telegraph Company	?	System 47 nm Telcon sub contracted the work to Henleys
1866	Valentia, Ireland - Heart's Content, Newfoundland	Telcon	Anglo-American Telegraph Co	Great Eastern - William Cory - Albany - Medway	System 1852 nm. CABLE: 1 copper conductor 7 strands No. 18 BWG, 6 wrapped around 7th, coated with three layers of Chattertons Compound and 3 layers of gutta percha then wrapped in tarred jute. Main cable armoured with 10 No. 13 BWG galvanised iron wires each wrapped in 5 strands of white manilla, shore ends 12 No. 0000 BWG black iron wires, intermediate 12 No. 3 BWG, 2nd intermediate 12 No. 1 BWG, 3rd intermediate 12 No. 0 BWG galvanised iron wires. The whole cable was then wrapped in jute and dipped in Bright and Clarks Composition. (hot pitch, tar and linseed oil). Laying commenced 7 July and was completed on 27 July. The 1866 cable was abandoned in 1872. After laying this cable, Great Eastern recovered the lost 1865 cable and completed it.
1866	Lowestoft, England - Nordeney, Germany	Telcon supplied the core subcontracting the	Reuters Telegraph Co	William Cory	System 224 nm. CABLE: 4 copper conductors each of 7 strands, 6 wrapped around 7th, coated with 3 layers of Chattertons Compound and then 3 layers of gutta percha all wrapped in tarred hemp. Armouring, main cable 12 No. 1 BWG, shore ends 15 No. 5 plus 12 strands of 3

		manufacture and laying Henley's Telegraph Works Co			No.5 BWG, all galvanised iron wires. The whole cable being wrapped in hemp and dipped in Bright and Clarks Composition. Laying commenced September 9th and was completed October 3rd (<i>The Times</i>). Operated by the Submarine Telegraph Co and formed part of the Indo-European Telegraph Co line. Taken over by the GPO in 1870
1866	Carleton Head, Prince Edward Island - Cape Tormantine, New Brunswick , Canada	Telcon	New York Newfoundland and London Telegraph Co	Medway	HMS Terrible acted as escort and assisted Medway during laying of this cable and the entry below. Laying completed 2 October 1866
1866	Cape Ray, Newfoundland - Cape North, Cape Breton Island, Nova Scotia	Telcon	Anglo-American Telegraph Co	Medway	System 91 nm. CABLE: 1 copper conductor 7 strands of 0.032" wire, 6 wrapped around 7th then covered with 3 layers of Chattertons Compound then 3 layers of gutta percha, then covered with tanned jute. Main cable armouring 10 No. 6 BWG and shore ends 10 No. 2 BWG galvanised iron wires. Laid between 10 and 16 October 1866.
1866	River Plate: Colonia - Punta Lara	Henley's Telegraph Works	River Plate Telegraph Co	Dotorell	System 30 nm.
1866	Chios - Crete	R.S. Newall & Co	?	?	System 200 nm
1866	Killantringan, Wigtownshire, Scotland - Whitehead, County Antrim, Ireland	Gutta Percha Co supplied the core. - R.S. Newall & Co - Spencer & Thomas Ltd	Electric & International Telegraph Co	?	Edward Bright's <i>List of Submarine Cables</i> , 1867, noted that this cable had 6 cores, 12 armouring wires, and weighed 10 tons per mile.
1866	Persian Gulf.	Telcon	?	?	System 170 nm. CABLE: 1 copper conductor coated with 3 Chattertons Compound and gutta percha, then covered with hemp. Armoured with 12 No. 7 galvanised iron wires, then wrapped in jute dipped in Bright and Clarks Composition
1866	Sweden	Telcon	?	?	System 6 nm. CABLE: 7 copper conductors No. 16 BWG, individually coated with Chattertons Compound and gutta

					percha, then all covered with gutta percha. Armoured with 18 No. 12 BWG galvanised iron wires
1867	Placentia, Newfoundland - St. Pierre	Telcon	New York Newfoundland and London Telegraph Co.	Chiltern	System 112 nm. CABLE: 1 copper conductor 7 strands 0.034" wire, 6 wrapped around 7th, covered with 3 layers of Chattertons Compound and 3 layers of gutta percha then covered with tanned jute. Main cable armouring 12 No. 9 BWG, shore ends 10 No.00 galvanised iron wires.
1867	Placentia, Newfoundland - Cape Breton Island, Nova Scotia	Telcon	New York Newfoundland and London Telegraph Co.	Chiltern	System 189 nm. CABLE: 1 copper conductor 7 strands 0.032" wire, 6 wrapped around 7th. Covered with 3 layers of Chattertons Compound and 3 layers of gutta percha, then wrapped in tanned jute. Main cable armouring 12 No. 9 BWG, shore ends 10 No. 2 galvanised iron wires.
1867	Moro, Havana, Cuba - Key West - Punta Rassa, Florida	India Rubber Gutta Percha & Telegraph Works	International Ocean Telegraph Co	Narva	System 102 + 133 nm. Laying began in August 1867 and the cable came into operation on 10th September. F.C. Webb was Engineer in Chief
1867	Hirtshalls, Denmark - Arendal, Norway	Hoopers made the rubber insulated core. - R.S. Newall & Co	Danish Norwegian English Telegraph Co	Archimedes - Chevy Chase	System 66 nm. Opened for service on the 1st July 1867
1867	1866 Atlantic cable repairs	Telcon	Atlantic Telegraph Co.	Chiltern	System (1) 63 nm. CABLE: (1) 1 copper conductor comprising 7 strands No. 18 BWG wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, 10 No. 13 homogeneous galvanised iron wires, each wire wrapped in 5 white manilla yarns. CABLE: (2) shore end, as above but armoured with 12 No. 0000 galvanised iron wires and then wrapped in 2 layers of jute coated with Bright and Clarks Composition.
1867	1861 Malta - Alexandria repairs	Telcon	British Government	Chiltern	System 14 nm. CABLE: 1 copper conductor consisting of 7 strands 0.034" wire, 6 wrapped around 7th, covered with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, 12 No. 9 galvanised iron wires.
1868	Havana - Key West	India Rubber Gutta Percha	International Ocean Telegraph Co	Narva	System 125 nm. Sir Charles Tilston Bright was Engineer in Chief

		& Telegraph Works			
1868	Havana - Key West - Punta Rassa	India Rubber Gutta Percha & Telegraph Works	International Ocean Telegraph Co	Narva	System 244 nm.
1868	Havana - Key West	India Rubber Gutta Percha & Telegraph Works	Cuba Submarine Telegraph Co	Narva	System 125 nm.
1868	Malta - Alexandria (1)	Telcon 942 nm	Anglo-Mediterranean Telegraph Co	Scanderia - Chiltern	System 925 nm. CABLE: 1 copper conductor comprising 7 strands 0.034" wire, 6 wrapped around 7th. Coated with 3 layers of Chattertons Compound and 4 layers of gutta percha and then wrapped in jute soaked in cutch. Main cable was armoured with 15 No. 13 BWG and shore ends with 10 No. 00 galvanised iron wires, all covered with jute and tar. Laying commenced September 26 with the shore end being landed at Malta by Chiltern and was completed on October 4 when Chiltern landed the Alexandria shore end. HMS Newport carried out the route survey and led the cable expedition. HMS Endymion was also in attendance.
1868	Italy - Sicily	Telcon	Italian PTT	Hawk	System 3 cables each 3 nm. CABLE: 3 copper conductors consistng of 3 strands No 14 BWG, covered with Chattertons Compound and gutta percha, then covered with gutta percha to No. 3 BWG, all wrapped in tanned jute. Armouring was 11 No. 6 BWG and 10 strands of 3 No. 6 BWG galvanised iron wires.
1868	Newbiggin by the Sea, England - Sondervig, Denmark	Hoopers made the rubber insulated core. - R.S. Newall & Co	Danish Norwegian English Telegraph Co	Archimedes - Chevy Chase	System 342 nm. Completed September 9th (<i>Times</i>). The cable house at Newbiggin is still standing. "Cables were floated by tar barrels, towed ashore by Danish seamen in longboats, then pulled up the beach by horses and placed in trenches cut by local fishermen. They terminated in the 'Cable House'."
1868	Denmark - Bornholm - Leipaja, Russia	Hoopers Telegraph Works supplied the core. - Henley's	Danish Russian Telegraph Co	La Plata	System 88 + 229 nm.

		Telegraph Works			
1868	Grisslehamn, Sweden - Nystad, Russia	Hoopers Telegraph Works supplied the core. - Henley's Telegraph Works	Danish Russian Telegraph Co	Caroline	System 99 nm.
1868	Italian Tunnels	Telcon			System 7 nm. CABLE: 1 copper conductor consisting of 7 strands wire, 6 wrapped around 7th. Coated with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armoured with 11 No. 14 BWG galvanised iron wires.
1868	New York City	Telcon			System 5 nm. CABLE: 5 copper conductors coated with Chattertons Compound and then gutta percha to No. 3 BWG. Armoured with 10 No. 1 BWG galvanised iron wires.
1868	Queensland	Telcon			System 5 nm. No details of cable listed. Shipped aboard SS Decapolis.
1869	Peterhead, Scotland - Skivoldsvig, Norway	Hoopers Telegraph Works supplied the core. - Henley's Telegraph Works	Norwegian - English Telegraph Co	La Plata	System 275 nm. Later taken over by Norwegian PTT and GPO
1869	Flinders, Victoria - Low Head, Tasmania	Telcon made the core and laid the cable. - Henley's Telegraph Works armoured the cable	Telcon	Investigator	System 176 nm. CABLE: 1 copper conductor comprising 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 12 No. 9 BWG and shore ends 12 No. 2 BWG both galvanised iron wires. Telcon transferred this cable to the Eastern Extension when the 1885 cable was laid. A new heavier shore end was laid at Flinders in 1879 to prevent damage by chafing. Laying commenced 20 April and was completed on 1 May 1869.

1869	Lands End - Scilly Isles	India Rubber, Gutta Percha & Telegraph Works supplied the core. - R.S. Newall & Co	Scilly Isles Telegraph Co.	Fusilier	System 27 nm. Cable failed
1869	Brest, France - St. Pierre	Telcon 2478 nm. - Henley's Telegraph Works 1086 nm	La Société du Câble Transatlantique Française	Great Eastern - Chiltern - Hawk - William Cory - Scanderia - Chiltern and Scanderia laid the St. Pierre - Cape Cod cable commencing on 15 July and completing it on 23 July.	System 2584 nm. CABLE: 1 copper conductor comprising 7 strands of 0.056" wire, 6 wrapped around 7th, coated with 3 layers of Chattertons Compound and then covered with 3 layers of gutta percha then wrapped in tanned jute. Armouring, all galvanised iron wires, main cable 10 No. 13 BWG, these wrapped in 5 strands tanned manilla. Intermediate 12 No. 4 BWG, Shore ends 12 No. 7 and 12 strands of 3 No. 4½. Cable wrapped in 2 layers hemp dipped in Bright and Clark's Composition
1869	St. Pierre - Cape Cod, USA	See above	See above	See above	System 749 nm. CABLE: 1 copper conductor comprising 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 layers of Chatterton's Compound and 3 layers of gutta percha, then wrapped in tanned jute. Armouring all galvanised iron wire, main cable 10 No. 8 BWG, intermediate 12 No. 4 BWG, shore ends 10 No. 8 BWG plus 12 strands 3 No. 4½ BWG. The whole cable was taken over by Anglo American in 1873.
1869	Moen, Denmark - Libau, Russia	Hoopers Telegraph Works supplied the core. - Henley's Telegraph Works	Great Northern Telegraph Co	Caroline	System 310 nm
1869	Norway - England	Hoopers Telegraph Works	Great Northern Telegraph Co	La Plata	

		supplied the core. - Henley's Telegraph Works			
1869	Bushire - Jask	Hoopers Telegraph Works supplied the core. - Henley's Telegraph Works	Indian Government	Tweed - Calcutta - Amberwitch	System 505 nm.
1869	Crimea - Poti	Telcon made the core. - Siemens Bros	Indo European Telegraph Co	Hull	System 300 nm.
1869	Belgium - USA	The following appeared in the <i>New York Times</i> dated 7 November 1869: A NEW OCEAN CABLE. The Proposed Belgo-American Line - The Concession signed by the Belgian Minister at Paris. Special dispatch to the New York Times. PARIS, France Saturday Nov 6 1869 - The concession for the proposed cable between the United States and Belgium was signed yesterday in this city by the Belgian Minister. The grantees are W.C. Barney, E.E. Paulding and J.S. Bartlett. The cable is to be laid from Ostend to some point between Maine and Georgia by an American company. The cable was never laid.			
1869	Valetta, Malta - Porallo, Sicily	Telcon	Anglo Mediterranean Telegraph Co	Hawk	System 54 nm. CABLE: 1 copper conductor consisting of 7 strands No. 14 BWG wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha, then tanned jute. Armouring, main cable 10 No. 6 BWG and shore ends 10 No.2 BWG galvanised iron wires.
1870	Porthcurno, Cornwall - (HMS) Brisk	?	?	?	(HMS) Brisk a former RN anti slavery vessel was moored 40 miles off Lands End to enable passing ships to be signalled much earlier. A combination of cable breakages and sea sickness among the signallers put an end to the venture.
1870	Salcombe, England - Brignogan (Brest), France	Telcon subcontracted the manufacture to W.T. Henley Telegraph Works Co		William Cory - Robert Lowe	System 102 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha, then wrapped in tanned yarn. Armouring, main cable 10 No. 1 BWG, shore ends 10 No. 6 BWG plus 10 strands of 3 No. 5 BWG, all galvanised iron wires. Main cable covered with two layers of jute dipped in Bright and Clarks

					Composition. Laying commenced on 3 Dec 1869 and was completed on 19 January 1870. Taken over by the GPO in 1890. Laid to extend the 1869 French cable to London. Abandoned in 1900 and replaced by a Cuckmere - Le Havre cable
1870	Beachy Head, England - Cap d'Antifer, France	W.T. Henley Telegraph Works Co	Submarine Telegraph Co	?	Six conductors. Taken over by the GPO in 1890.
1870	Marseilles, France - Bona, Algeria - Malta	Telcon 678 nm. Telcon subcontracted part of the manufacture and all of the laying to Henley's Telegraph Works who supplied 157 nm. cable	Marseilles, Algiers and Malta Telegraph Co	William Cory - La Plata	System 447 + 386 nm. CABLE: France - Algeria section; 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable, 16 No. 13 BWG galvanised homogeneous iron wires, shore ends 10 No. 00 BWG galvanised iron wires. Then covered with jute dipped in Bright and Clarks Composition. CABLE: Algeria - Malta section; As France - Algeria but armouring was, main cable 14 No. 12 BWG galvanised iron wires. William Cory laid the Marseilles - Bona section commencing 24 July and completing it on 27 July. La Plata laid the Bona - Malta section commencing 6 October and completing it on 13 October. The cable manufactured by Henley was originally for a scheme in the Bering Sea which fell through. It was stored aboard the Egmont for some time before being offloaded at North Woolwich
1870	Port Kale, Scotland - Donaghadee, Ireland	Telcon supplied the core. - R.S. Newall & Co	GPO	Monarch (1) - Blazer (2)	System 23 nm. Cable contained 4 conductors. Last submarine cable made by R. S. Newall & Co.
1870	Lands End - Scilly Isles	W.T. Henley Telegraph Works Co	?	Caroline	System 27 nm.
1870	Scotland - Orkney Islands	Siemens Bros	Orkney & Shetlands Telegraph Company	La Plata	
1870	Cephalonia - Zante: Cephalonia - Ithaca: Santa	India Rubber, Gutta Percha & Telegraph Works	Levant Telegraph Co	Agnes	System 74 nm.

	Maura - Ithaca: Santa Maura - Corfu	supplied the core. - R.S. Newall & Co			
1870	Malta - Alexandria, Egypt	Telcon	Anglo Mediterranean Telegraph Co	Chiltern - Belgian	Laying commenced 22 November 1870
1870	Ithaca - Santa Maura: Zante - Trepito: Sunium - Thermia:	Telcon	Anglo Mediterranean Telegraph Co	Agnes	Ithaca - Santa Maura, System 7 nm. CABLE: 1 copper conductor 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha, then wrapped in jute soaked in cutch. Armouring 10 No. 6 BWG galvanised iron wires. Cable then wrapped in 2 layers of jute dipped in Bright and Clarks Composition. Laying took place on 12 October 1870. Zante - Trepito System 11 nm. CABLE: As Ithaca but with armouring of 12 No. 9 galvanised iron wires. Cable wrapped in 1 layer of jute dipped in Bright and Clarks Composition. Cable laid 15 October 1870. Sunium - Thermia, System 25 nm. CABLE: 1 copper conductor comprising 7 strands 0.031 wire. Rest as Ithaca Ithaca but wrapped in tanned jute. Armouring 10 No. 00 BWG galvanised iron wires. Cable wrapped in 2 layers of jute dipped in Bright and Clarks Composition. Laying commenced 8 October, completed 9 October 1870.
1870	Bombay - Aden - Suez	Telcon - W.T. Henley Telegraph Works Co 3600 nm total	British-Indian Telegraph Co	Great Eastern - Chiltern - Hibernia - William Cory - Hawk	System 3278 nm plus land lines from Suez to Alexandria owned by the Egyptian Government. Opened for service 26 March 1870
1870	Back Bay, Bombay, India - Aden	Telcon - W.T. Henley Telegraph Works Co 3600 nm total	British-Indian Telegraph Co	Great Eastern - Chiltern	System 1818 nm. CABLE: 1 copper conductor consisting of 7 strands 0.038" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 9 No. 13 BWG wrapped in 5 hemp manilla strands compounded with pitch, tar and silica, plus 12 strands of 3 No. 5 BWG, intermediate 10 No. 6 BWG and shore ends 10 No. 00. All wrapped in jute dipped in Bright & Clarks Composition. Chiltern laid the Bombay shore end of 10 nm, and Great Eastern laid the rest. Laying commenced 14 February and was completed on 2nd March 1870.
1870	Aden - Suez,	Telcon - W.T.	British-Indian	Great Eastern	System 1460 nm. CABLE: 1 copper conductor consisting

	Egypt	Henley Telegraph Works Co 3600 nm total	Telegraph Co	- Chiltern - Hibernia - Hawk - William Cory	of 7 strands 0.031" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha. Armouring, all galvanised iron wires, main cable 12 No. 9 BWG, intermediate 10 No. 6 BWG, and shore ends 10 No. 00 BWG. Main cable and shore end covered with 2 layers of jute dipped in Bright and Clarks Composition, intermediate cable covered with 1 layer of jute dipped in Bright and Clarks Composition. Great Eastern laid 325 nm. from Aden towards Suez handing over to Hibernia which laid 613 nm. Chiltern then laid 250 nm to link up with William Cory laying from Suez. Hawk laid the Suez shore end. Laying commenced 3 March, completed 16 March 1870.
1870	Malta - Gibraltar	Telcon	Falmouth Gibraltar & Malta Telegraph Co	Scanderia - Edinburgh	System 1120 nm. CABLE: 1 copper conductor 7 strands 0.031 wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha then wrapped in tarred jute. Armouring, main cable 15 No. 13 BWG galvanised homogeneous iron wires, intermediate 10 No. 6 BWG, shore ends (1) 10 No. 00 BWG and shore ends (2) 10 No. 2 BWG galvanised iron wires. All covered with jute dipped Bright and Clarks Composition. Laying commenced on 14 May and was completed on 26 May 1870.
1870	Gibraltar - Carcavelos, Portugal	Telcon	Falmouth Gibraltar & Malta Telegraph Co	Scanderia - Investigator	System 331 nm. CABLE: 1 copper conductor 7 strands 0.031" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 15 No. 13 BWG galvanised homogeneous iron wires, intermediate 10 No. 2 BWG and shore ends 10 No. 00 BWG galvanised iron wires. Cable wrapped in jute dipped in Bright and Clarks Composition. Laying commenced 28 May, completed 31 May 1870
1870	Carcavelos, Portugal - Porthcurno, Cornwall, England	Telcon	Falmouth Gibraltar & Malta Telegraph Co	Hibernia - Investigator	System 824 nm. CABLE: 1 copper conductor consisting of 7 strands 0.031" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then covered with tanned jute. Armouring, main cable 9 No. 13 BWG each wire wrapped in 5 hemp strands dipped in preservative, intermediate 10 No. 6 BWG and shore ends 10 No. 00 BWG galvanised iron wires. Intermediate and shore ends wrapped in jute dipped in Bright and Clarks Composition. Hibernia commenced laying cable on 2 June

					and arrived at Porthcurno on 8 June 1870. Investigator laid Porthcurno shore ends
1870	Messina Strait	Telcon	Anglo Mediterranean Telegraph Co	Hawk	
1870	Malta - Alexandria, Egypt	Telcon	Anglo Mediterranean Telegraph Co	Chiltern - Belgian	System 905 nm. CABLE: 1 copper conductor comprising 7 strands 0.031" or 7 strands 0.038" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable (1) 15 No. 13 BWG homogeneous galvanised iron wires, main cable (2) 9 No. 13 BWG each wire wrapped in 5 hemp and manilla strands soaked in a mixture of pitch, tar and silica, or 5 hemp strands per wire soaked in a preservative mixture, shore ends (1) 10 No. 00, shore ends (2) 10 No. 2 BWG, intermediate (1) 12 No. 9 BWG. intermediate (2) 10 No. 6 BWG. All galvanised iron wires except main cable (1). The cable was then wrapped in 2 layers of jute dipped in Bright and Clarks Composition. Laying commenced 15 November, completed 22 November 1870. [<i>The Manual of Submarine Telegraph Companies</i>]
1870	Dartmouth, England - L'Ancre Bay, Guernsey	Glass Elliot & Co	Jersey & Guernsey Telegraph Co. Taken over by the GPO in 1870	International	System 22 nm.
1870	Inter CI 1: Saints Bay, Guernsey - Plémont, Jersey	Glass Elliot & Co	Jersey & Guernsey Telegraph Co. Taken over by the GPO in 1870	International	Upgraded to 1+4 channels in 1932.
1870	Jersey - Guernsey: Guernsey - Alderney	W. T. Henley Telegraph Works Co	Jersey & Guernsey Telegraph Co	Caroline	
1870	Penang - Singapore	Telcon	British Indian Extension Telegraph Co	Scanderia - William Cory	System 400 nm. CABLE: 1 copper conductor 7 strands 0.031" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then wrapped

					in tanned jute. Armouring, main cable 10 No. 6 BWG and shore ends 10 No. 00 BWG galvanised iron wires. Covered with 2 layers of jute dipped in Bright and Clarks Composition. Laying commenced 3 December, completed 11 December. Opened for service 16 December 1870. In 1886 CS Seine carried out extensive repairs and renewals to this cable.
1870	Singapore - Batavia	Telcon	British Australian Telegraph Co	Hibernia	System 557 nm. CABLE: 1 copper conductor 7 strands No. 21 BWG wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha, then covered with tanned jute. Armouring, main cable 10 No. 6 BWG, covered with 2 layers of jute dipped in Bright and Clarks Composition. Shore ends 10 No. 0 BWG, all galvanised iron wires, covered in 1 layer of jute dipped in Bright and Clarks Composition. Laying commenced 8 November, completed 14 November. Opened for service 19 November 1870
1870	Batabano - Cienfuegos - Santiago de Cuba Repaired in 1893	India Rubber Gutta Percha & Telegraph Works	Cuba Submarine Telegraph Co	Suffolk	System 150 + 425 nm. Because of shoals between Batabano and Cienfuegos "sugar flats" towed by the Spanish gunboat "Alarma" had to be used at times to lay the cable
1870	Santiago de Cuba, Cuba - Holland Bay, Jamaica	India Rubber Gutta Percha & Telegraph Works	West India & Panama Telegraph Co	Dacia	System 197 nm. A landline connected the cable terminus to Kingston. Laying commenced on 13th September and was completed by the 15th.
1870	Colon, Panama - Kingston, Jamaica	India Rubber Gutta Percha & Telegraph Works	West India & Panama Telegraph Co	Dacia	System 550 nm. Laying commenced from Colon on 24 October and on 27th October after 367 nm had been paid out the cable parted. Grappling went on until 1st November without success and the cable was abandoned.
1870	St. Thomas, DWI - San Juan, Puerto Rico	India Rubber Gutta Percha & Telegraph Works	West India & Panama Telegraph Co	Dacia - Suffolk	System 79 nm. Laying started on 7th December and was completed on 12th.
1870	Renard Point - Valentia, Ireland	?	?	?	System 0.5 nm. Cable contained 4 conductors.
1870	Borkum - Juist - Nordeney	Felten & Guilleaume	German PTT	?	System 22 nm.
1871	Madras, India -	Telcon	British Indian	Scanderia -	System 1409 nm. CABLE: 1 copper conductor comprising

	Penang, Malaya		Extension Telegraph Co	Edinburgh	7 strands 0.031" wire, 6 wrapped around 7th covered with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 15 No. 13 BWG homogeneous galvanised iron wires, intermediate 10 No. 6 BWG and shore ends 10 No. 00 BWG, both galvanised iron wires all wrapped in 2 layers of jute dipped in Bright and Clarks Composition. Laying commenced 19 December, completed 31 December 1870. Opened for service 4 January 1871
1871	St Thomas - St Kitts - Antigua - Guadeloupe - Dominica - Martinique - St Lucia - St Vincent - Barbados: St Vincent - Grenada - Trinidad - Georgetown, British Guiana	India Rubber Gutta Percha & Telegraph Works	West India & Panama Telegraph Co	Dacia - Suffolk	System 173 + 90 + 78 + 55 + 56 + 54 + 93 + 110: 89 + 92 + 360 nm. In 1874 the Martinique - Dominica cable was recovered, repaired and relaid by CS Kangaroo. A landline was built in 1872 to connect Basse Terre and Pointe à Pitre, Guadeloupe.
1871	Key West - Punta Rassa	?	International Ocean Telegraph Co	?	
1871	Banjoewangie, Java - Port Darwin, Australia	Telcon	British Australian Telegraph Co	Hibernia - Edinburgh - Investigator	System 1082 nm. CABLE: 1 copper conductor, 7 strands 0.029" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 15 No. 13 BWG, intermediate 10 No. 6 BWG shore ends 10 No. 00 BWG galvanise iron wires. Intermediate cable wrapped in 2 layers of jute, remainder 1 layer of jute dipped in Bright and Clarks Composition. Laying commenced 7 November, completed 19 November 1871. A fault developed on 25 June 1872 and was not repaired until 21 October 1872. Part of this cable was recovered by C&W. WFS 1930.
1871	Anjer, Java - Telok Belong, Sumatra	Telcon	British Australian Telegraph Co	Investigator	System 56 nm. CABLE: 1 copper conductor 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 10 No. 6 BWG,

					wrapped in 2 layers of jute, shore ends 10 No. 00 galvanised iron wires wrapped in 1 layer of jute, both dipped in Bright and Clarks Composition. Laying commenced 10 October, completed 13 October 1871.
1871	Orkney - Shetland	Henleys Telegraph Works - Reid Brothers	Orkney & Shetlands Telegraph Company	Caroline	
1871	Carcevelos - Vila Real, Portugal - Gibraltar	Telcon subcontracted the manufacture and laying to Henley's Telegraph Works	Falmouth, Gibraltar & Malta Telegraph Co	La Plata laid the Gibraltar - Vila Real section - William Cory the Carcevelos - Vila Real section	System 151 + 152 nm. CABLE: Gibraltar - Vila Real: 1 copper conductor, 7 strands 0.029" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 10 No. 6 BWG, intermediate 10 No. 2 BWG, shore ends 10 No. 00 BWG all galvanised iron wires. Cable wrapped in 2 layers of jute dipped in Bright and Clarks Composition. Laying completed 21 April 1871. Carcavelos - Vila Real, CABLE: As Gibraltar - Vila Real. Laying commenced 19 September, completion date unknown
1871	Tagus River, Portugal	Telcon subcontracted the manufacture and laying to Henley's Telegraph Works	?	La Plata	System 1¼ nm. CABLE: 6 copper conductors each of 7 strands 0.029" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then covered with tanned jute. Armouring 12 No. 1 BWG galvanised iron wires. Cable then wrapped in 2 layers jute dipped in Bright and Clarks Composition. Laid in April 1871.
1871	Marseilles, France - Algiers, Algeria	India Rubber Gutta Percha & Telegraph Works	French PTT	International	
1871	Minorca - Majorca	Henley's Telegraph Works	Spanish Government	?	
1871	Ibiza - San Antonio	Henley's Telegraph Works	Spanish Government	?	
1871	Singapore - Cape St. James.	Telcon	China Submarine	Kangaroo - Agnes -	System 620 + 976 nm. CABLE: Singapore - Saigon and Saigon - Hong Kong 1 copper conductor 7 strands 0.029

	Saigon - Hong Kong		Telegraph Co	Belgian - Minia	wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha. Main and intermediate cable wrapped in jute dipped in cutch, shore ends wrapped in tanned jute. Armouring, main cable 12 No. 9 BWG intermediate 10 No. 6 BWG and shore ends 10 No. 00 BWG galvanised iron wires. Cable covered with 2 layers of jute dipped in Bright and Clarks Composition. Laying commenced 19 May, completed 3 June. Opened for service 10 June 1871. <i>(NY Times, 25 July 1871)</i>
1871	Rhodes - Marmorece: Cyprus - Salakigae	Telcon	Turkish Government	Scanderia	System 23 + 87 nm. CABLE: 1 copper conductor 7 strands 0.029 wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 15 No. 13 BWG, intermediate 10 No. 6, shore ends 10 No. 2 BWG galvanised iron wires. Main cable and shore ends wrapped in 1 layer of jute and intermediate in 2 layers of jute then both dipped in Bright and Clarks Composition. Laying Rhodes - Marmorece, commenced 1 October, completed 2 October. Cyprus - Salakigae, commenced 5 October, completed 6 October 1871
1871	Samos - Scala Nuova: Aevali - Mytilene	Telcon	Turkish Government	Scanderia - Hawk	System 11 + 13 nm. Samos - Scala Nuova, CABLE: 1 copper conductor 7 strands 0.029" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 10 No. 6 BWG, shore ends 10 No. 2 BWG galvanised iron wires. Main cable wrapped in 2 layers of jute and shore ends 1 layer of jute dipped in Bright and Clarks Composition. Laying commenced and finished on 10 October 1871. CABLE: Aevali - Mytilene as above except main cable wrapped in 1 layer of jute dipped in Bright and Clarks Composition. Laying commenced and finished on 12 October 1871.
1871	Canea - Rettimo: Rettimo - Candia: Candia - Rhodes: Chios - Chesme	Telcon	Telcon	Scanderia - Hawk	System 33 + 41 + 201 + 7 nm. CABLE: Canea - Rettimo, Rettimo - Candia, Candia - Rhodes, 1 copper conductor 7 strands 0.029" wire, covered with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 15 No. 13 BWG, homogeneous galvanised iron wires intermediate 10 No. 6 BWG, shore ends 10 No. 2 BWG galvanised iron wires. Main cable and shore ends wrapped in 1 layer of jute, shore ends

					wrapped in 2 layers of jute all dipped in Bright and Clarks Composition. CABLE: Chios - Chesme, conductor as above but armoured with 10 No. 2 BWG galvanised iron wires and wrapped in 1 layer of jute dipped in Bright and Clarks Composition. Cables laid 22, 23-4, 25-30 September, 11 October 1871
1871	Zante - Corfu: Zante - Cephalonia	Telcon	Telcon - Operated by Anglo-Med. Later taken over by Anglo- Med	Scanderia	System 150 + 18 nm. CABLE: Zante - Corfu, 1 copper conductor of 7 strands 0.029" or 0.031" wire, covered with Chattertons Compound and gutta percha, the covered with tanned jute. Armouring, main cable 12 No. 9 BWG, and 15 No. 13 BWG, intermediate 10 No. 6 BWG, shore ends 10 No. 2 BWG and 10 No. 00 BWG galvanised iron wires. Zante shore end and intermediate cable wrapped in 2 layers of jute The remainder wrapped in 1 layer of jute, all dipped in Bright and Clarks Composition. Laying commenced 22 October, completed 28 October 1871. CABLE: Zante - Cephalonia as above except intermediate cable (11 nm) was covered with india rubber then wrapped in tanned jute, armoured with 15 No.13 galvanised iron wires and wrapped in 1 layer of jute dipped in Bright and Clarks Composition. Zante shore end armoured with 10 No. 6 BWG galvanised iron wires and wrapped in 2 layers of jute dipped in Bright and Clarks Composition. Laying commenced 6 November, completed 11 November 1871
1871	Vladivostock - Nagasaki - Shanghai - Hong Kong	Hoopers Telegraph Works supplied the core. - Hoopers sub- contracted Siemens Bros to armour the cable as their own armouring factory had not been completed.	Great Northern, China & Japan Extension Telegraph Co	Africa - Great Northern - Cella - Tordenskjold	System 772 + 491 + 950 nm. Tordenskjold laid the shore ends at Hong Kong.
1871	Lowestoft -	Telcon	German Union	La Plata	System 224 nm. CABLE: 4 copper conductors each of 7

	Borkum - Grietsel	subcontracted the manufacture and laying to Henley's Telegraph Works	Telegraph Co		strands 0.029 wire, coated with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 12 No. 3 BWG shore ends 12 No.000 BWG. Cable wrapped in 1 layer of jute dipped in Bright and Clarks Composition. Laying commenced 6 September, completed 27 November, German owned but operated by the GPO
1871	Porth Crugmor, Anglesey - Howth, Ireland No 1	Henleys Telegraph Works	GPO	La Plata	System 64.5 nm. Cable contained 7 conductors
1871	Ganovan Bay, Oban, Scotland - Isle of Mull	?	GPO	?	System 6.4 nm. Cable contained 1 conductor
1871	Glenacardock Point, Cantyre, Scotland - Isle of Islay	?	GPO	?	System 16 nm. Cable contained 1 conductor
1871	1866 Atlantic cable repairs	Telcon	Anglo American Telegraph Co.	Scanderia	System 100 + 20 nm. CABLE (1) 1 copper conductor comprised 7 strands 0.056" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha then tanned jute. Armouring, 10 No. 1 galvanised iron wires wrapped in 2 layers of jute dipped in Bright and Clarks Composition. CABLE: (2) As above, but armouring, 10 No. 13 homogeneous galvanised iron wires each wire wrapped in 5 strands tanned manilla
1871	1871 Banjoewangie - Port Darwin cable repairs	Telcon	British Australian Telegraph Co.	?	System 4 + 20 nm. CABLE: (1) 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th then covered with Chattertons Compound and gutta percha and wrapped in tanned jute. Armouring, 10 No. 00 galvanised iron wires. CABLE: (2) As above but armouring 10 No. 6 galvanised iron wires. Both cables wrapped in 2 layers of jute soaked in Bright and Clarks Composition
1871	Rotterdam Telegraph Co.	Telcon	Rotterdam Telegraph Co.	?	System 2 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 strands wrapped around 7th, covered with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, 10 No. 6 galvanised iron wires. Cable covered with 1 layer of jute

					dipped in Bright and Clarks Composition. Shipped aboard SS Olga.
1872	Jamaica - Puerto Rico	India Rubber Gutta Percha & Telegraph Works	West India & Panama Telegraph Co	Dacia - Suffolk	
1872	Italy - Sicily	Henley's Telegraph Works	Eastern Telegraph Co	Africa	Two cables laid
1872	Maeda - Amagakudo, Kanmon Straits, Japan No 1	?	Japanese Government	?	System 1.1 km. Single conductor with gutta percha insulation
1872	The Lizard, England - Bilbao, Spain	India Rubber Gutta Percha & Telegraph Works	Direct Spanish Telegraph Co	Dacia	Taken over by Eastern in 1885
1872	Loch Ewe, Scotland - Branahue Bay, Stornoway, Lewis, Outer Hebrides	?	GPO	?	System 32.5 nm. Cable contained 1 conductor
1872	Ross & Cromarty, Scotland - Isle of Skye	?	GPO	?	System 0.77 nm. Cable contained 1 conductor
1872	Rugha Ben, Scotland - Isle of Bute	?	GPO	?	System 0.4 nm. Cable contained 1 conductor
1872	Constantinople	Telcon	?	?	System 3¼ + 2½ nm. CABLE: (1) 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th covered with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 15 No. 13 homogeneous galvanised iron wires. CABLE: (2) 3 copper conductors each 7 strands 0.029 " wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 14 No. 6 galvanised iron wires. Both

					cables wrapped in 2 layers of jute dipped in Bright and Clarks Composition. 1st cable shipped aboard SS Rostov, 2nd aboard SS Kornikov
1872	Hearts Content - Rantem - Island Cove - Placentia, Newfoundland - St Pierre - Sydney, Nova Scotia	Telcon	Anglo American Telegraph Co	Vanessa	System 111 + 182 nm. CABLE: Placentia - St. Pierre and St. Pierre - Sydney. 1 copper conductor, 7 strands 0.029" wire 6 wrapped around 7th then covered with Chattertons Compound and gutta percha, then wrapped in jute soaked in cutch. Armouring , main cable 12 No. 9 BWG, shore ends 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers of jute dipped in Bright and Clarks Composition. Laying St. Pierre - Sydney commenced 2 August, completed 3 August. Placentia - St. Pierre, laying commenced 4 August, completed 5 August 1872. Because of the poor state of the land line Anglo American laid a cable to Rantem. From there to Island Cove a buried land line, then continued to Sydney via Placentia and St Pierre with the above submarine cable.
1873	Valentia, Ireland - Heart's Content, Newfoundland	Telcon	Anglo American Telegraph Co	Great Eastern - Hibernia - Edinburgh - Robert Lowe	System 1877 nm. CABLE: 1 copper conductor 7 strands 0.056" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 10 No. 13 BWG each wire wrapped in 5 strands of tanned manilla,"whipped" then dipped in Bright and Clarks Composition, intermediate 12 No. 6 BWG, 2nd intermediate 15 No. 9 BWG, shore end 12 No. 6 BWG plus 12 strands of 3 No. 5 BWG, 2nd shore end 12 No. 00 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Bright and Clarks Composition. Laying commenced 11 June, completed 15 June 1873. This cable was originally ordered by the French Atlantic Telegraph Company just before its takeover by Anglo American. After completion, because of the shorter route, 1000 nm of cable was left and so additional cable was ordered to enable another cable to be laid, this being done in 1874.
1873	Placentia, Newfoundland - Sydney, Cape Breton Island	Telcon	Anglo American Telegraph Co	Hibernia - Edinburgh - Kangaroo	System 314 nm. CABLE: 1 copper conductor 7 strands 0.029" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, wrapped in jute dipped in cutch. Armouring, main cable 12 No. 6 BWG shore end 12 No. 6 BWG and 12 strands of 3 of No. 5 BWG, 2nd shore end 12 No. 00 BWG galvanised iron wires. Cable covered in 2 layers of jute dipped in Bright

					and Clarks Composition. Laying commenced 15 July, completed 21 July 1873
1873	Sydney, Cape Breton Island - Placentia, Newfoundland	Telcon	Anglo American Telegraph Co	Hibernia - Edinburgh - Kangaroo	System 281 nm. CABLE: AS ABOVE except, Laying commenced 23 July, completed 25 July 1873
1873	Cuxhaven - Heligoland	Telcon sub-contracted the manufacture and laying to Henley's Telegraph Works	Hamburg & Heligoland Telegraph Co	La Plata	System 32 nm. CABLE: 1 copper conductor 7 strands 0.029 wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then covered with tanned jute. Armouring, main cable 10 No. 2 BWG, shore ends 10 No. 00 BWG galvanised iron wires. Cable covered in 2 layers jute dipped in Bright and Clarks Composition. Laying commenced 1 July, completed 6 July 1873
1873	Para (Belem) - Maranham (Sao Luis) - Ceara (Fortaleza) - Pernambuco (Recife) - Bahia (Salvador) - Rio de Janeiro, Brazil . Present day names are in brackets	Hoopers Telegraph Works	Western & Brazilian Telegraph Co	Hooper	System 406 + 396 + 450 + 464 + 840 nm
1873	Oye, France - Fanö, Denmark	Henley's Telegraph Works	Great Northern Telegraph. Co	La Plata - Africa	System 383 nm.
1873	Skagen, Denmark - Marstrand, Sweden	Henley's Telegraph Works	Great Northern Telegraph. Co	La Plata - Africa	System 34 nm.
1873	Newbiggin, England - Sondervig, Denmark	Henley's Telegraph Works	Great Northern Telegraph. Co	Africa	
1873	Porthcurno, England - Vigo, Spain	Telcon subcontracted the	Eastern Telegraph Co	Africa - Minia	System 620 nm. CABLE: 1 copper conductor 7 strands 0.031" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha and wrapped in

		manufacture and laying to Henley's Telegraph Works.			tanned jute. Armouring, main cable 9 No. 13 BWG each wire covered with 5 strands of tarred manilla dipped in a preservative mixture, "whipped" then dipped in Bright and Clarks Composition, intermediate 10 No. 2 BWG, 2nd intermediate 12 No. 9 BWG shore ends 10 No. 00 BWG galvanised iron wires. Cable wrapped in 2 layers of jute dipped in Bright and Clarks Composition. Laying commenced 9 June, completed 15 June 1873. From Porthcurno, Minia laid 10 nm shore end and 142 nm of intermediate. Africa laid 33 nm of 2nd intermediate, then 388 nm of main, completing the laying to Vigo with 33 nm of 2nd intermediate, 22 nm of intermediate and 15 nm of shore end.
1873	Carcavelos, Portugal - Vigo, Spain	Telcon subcontracted the manufacture and laying to Henley's Telegraph Works.	Eastern Telegraph Co	Kangaroo	System 247 nm. CABLE: as above except the following. Armouring, main cable 10 No. 6 BWG, intermediate 10 No. 2 BWG, shore ends 10 No. 00 BWG. Laying commenced 11 June, completed 20 July 1873. From Carcavelos, Kangaroo laid 8 nm of shore end, 44 nm of intermediate, 18 nm of 2nd intermediate, a further 180 nm of intermediate, then 15 nm of shore end cable.
1873	Montevideo - Maldonado - Chuy	Henley's Telegraph Works	Montevidean & Brazilian Telegraph Co	Mazeppa	Western & Brazilian took over this company
1873	Italy - Sicily	Henley's Telegraph Works	Eastern Telegraph Co	Africa	2 cables laid
1873	Syra - Thermia: Syra - Chios: Syra - Tenos: Andros -Tenos: Andros - Negraport: Morea - Hydra: Morea - Spetizia: Morea - Paros	Telcon	Greek Government - Eastern Telegraph Co	Hawk	
1873	Montevideo, Uruguay - Punta Lara, Argentina	India Rubber Gutta Percha & Telegraph Works	River Plate Telegraph Co	Estella	This company was taken over by Western & Brazilian

1873	Key West, USA - Havana, Cuba	?	International Ocean Telegraph Co	Dacia	
1873	South Africa	Hooper's Telegraph Works			Hooper's proposed this cable and even made samples, but no funding was found and the cable was never laid
1873	Maeda - Amagakudo, Kanmon Straits, Japan No 2	?	Japanese Government	?	System 1.1 km. Single conductor with gutta percha insulation
1873	Hoy, Orkneys - Houton Head, Scotland	?	GPO	?	System 2.5 nm. Cable contained 1 conductor
1873	Carcavelos, Portugal - Madeira	Telcon	Brazilian Submarine Telegraph Co	Seine - Minia	System 614 nm. CABLE: 1 copper conductor comprising 7 strands 0.031" wire, 6 wrapped around 7th then covered with Chattertons Compound and gutta percha and wrapped in tanned jute. Armouring, main cable 9 No 13 BWG homogeneous galvanised iron wires each wrapped in 5 strands of hemp soaked in a preservative mixture then 'whipped' and soaked in Bright and Clarks Composition. 1st intermediate (Carcavelos) 10 No. 6 BWG, 2nd intermediate (both ends) 12 No. 9 BWG, shore ends 10 No. 00 BWG, galvanised iron wires. Wrapped in 2 layers jute dipped in Bright and Clarks Composition. Laying commenced 19 August, completed 22 September 1873. Carcavelos 1st intermediate cable replaced by CS's Africa and Kangaroo 15 June 1874. Madeira shore end replaced in 1876.
1874	Madeira - St Vincent, Cape Verde Islands	Telcon	Brazilian Submarine Telegraph Co	Hibernia - Edinburgh	System 1197 nm. CABLE: 1 copper conductor comprising 7 strands 0.031" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 9 No. 13 BWG homogeneous galvanised iron wires each wrapped in 5 hemp strands dipped in preservative mixture, "whipped" then dipped in Bright and Clarks Composition, 1st intermediate 12 No. 9 BWG, 2nd intermediate 10 No. 6 BWG, shore ends 10 No. 00 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Bright and Clarks Composition. Laying commenced 28 February, completed 17 March 1874.

1874	St Vincent, Cape Verde Islands - Pernambuco (Recife), Brazil	Telcon	Brazilian Submarine Telegraph Co	Hibernia - Edinburgh - Seine - Investigator	System 1844 nm. CABLE: 1 copper conductor comprised 7 strands wire, 6 wrapped around 7th coated with Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable 10 No. 13 BWG homogeneous galvanised iron wires each wrapped in 5 tanned manilla strands, "whipped" and dipped in Bright and Clarks Composition. 1st intermediate 12 No. 9 BWG, 2nd intermediate 18 No. 13 BWG, shore ends 10 No.00 galvanised iron wires. wrapped in 2 layers jute dipped in Bright and Clarks Composition.
1874	Holland Bay, Jamaica -Ponce, Puerto Rica - St Croix	Telegraph Construction & Maintenance Co	West India & Panama Telegraph Co	Minia - Kangaroo	System 647 nm CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th then covered with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 16 No. 13 BWG homogeneous galvanised iron wires, intermediate 10 No. 5 BWG, shore ends 10 No. 00 BWG galvanised iron wires. Cable then wrapped in 2 layers of jute soaked in Bright and Clarks Composition. Laying commenced 7 January, completed 14 January 1874. F.R. Lucas Engineer in Charge.
1874	Para, Brazil - Cayenne, French Guiana - Demerara, British Guiana (Guyana)	Hoopers Telegraph Works	Western & Brazilian Telegraph Co	Hooper	Abandoned after 2 years
1874	Marseilles, France - Barcelona, Spain	India Rubber, Gutta Percha & Telegraph Works	Direct Spanish Telegraph Co	Dacia	
1874	Kilia (Şile), Turkey - Odessa, Ukraine	Telcon subcontracted the manufacture and laying to Henley's Telegraph Works.	Black Sea Telegraph Co	La Plata	System 350 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 15 No. 13 homogeneous galvanised iron wires, intermediate 10 No. 6, shore ends 10 No. 2 galvanised iron wires. Cable wrapped in 2 layers jute dipped in Bright and Clarks Composition. Laying commenced 16 May, completed 22 May 1874.
1874	Valentia, Ireland	Telcon	Anglo	Great Eastern	The cable used on this route was originally ordered by

	- Heart's Content, Newfoundland		American Telegraph Co	- Hibernia - Edinburgh	the French Atlantic Telegraph Company just before its takeover by Anglo American. After completion of the 1873 cable (see above), because of the shorter route, 1000 nm of cable was left and so additional cable was ordered to enable another cable to be laid, this being done in 1874. The specifications for this cable are thus identical to those of the 1873 cable.
1874	Rye Beach, USA - Tor Bay, Nova Scotia - Harbour Grace, Newfoundland - Ballinskelligs, Ireland	Siemens Bros	Direct United States Cable Co	Faraday (1) - Ambassador	System 3200 nm. Anglo American gained a majority shareholding in the company, but it continued to operate under its own name even when leased by Western Union. Purchased by the GPO in 1920. In 1952 Monarch (4) undertook major repair work on this cable, and a note in the Telcon magazine (Issue 21, Autumn 1953) reports that the entire length of this cable was currently being replaced by Monarch (4). The core of the 1525nm of replacement cable was insulated with Telcothene, making it "the first transatlantic cable to be entirely insulated with that plastic material". As part of this work, the cable was also diverted from Harbour Grace into St. John's.
1874	Rio de Janeiro - Santos - Florianopolis, Brazil	Siemens Bros	Companhia Telegrafica Platino-Braziliera	Ambassador	System 1026 nm including two following entries
1874	Florianopolis, Brazil - Rio Grande, Brazil	Siemens Bros. See above	Companhia Telegrafica Platino-Braziliera	Gomos	Gomos foundered after laying this cable, and 204 nm of cable was lost. La Plata was chartered from Henley's, but foundered in the Bay of Biscay on 29 November 1874 with the loss of 58 crew. More cable was manufactured and laid by Ambassador
1874	Rio Grande, Brazil - Chuy, Uruguay	Siemens Bros. See above	Companhia Telegrafica Platino-Braziliera	Ambassador	
1874	Alexandria, Egypt - Sitia, Crete	Telcon subcontracted the manufacture and laying to Henley's	Eastern Telegraph Co	Africa	System 360 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th covered with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 15 No. 13 homogeneous galvanised iron wires, intermediate 10 No. 2 BWG, shore ends 10 No. 00 galvanised iron wires. Cable wrapped in 2 layers jute soaked in Bright and

		Telegraph Works.			Clarks Composition. Laying commenced 22 November, completed 3 December 1873
1874	Sitia, Crete - Zante - Otranto, Italy	Telcon subcontracted the manufacture and laying to Henley's Telegraph Works.	Eastern Telegraph Co	Africa	System 238 + 187 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th covered with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 15 No. 13 homogeneous galvanised iron wires, 1st intermediate 10 No. 2½ BWG, 2nd intermediate 12 No. 9 BWG, shore ends 10 No. 00 galvanised iron wires. Cable wrapped in 2 layers jute soaked in Bright and Clarks Composition. Laying, Crete - Zante, commenced 6 December, completed 13 December 1873. Laying, Zante - Otranto commenced 3 January, completed 10 January 1874.
1874	San Sebastian - Bilbao - Santander	Henley's Telegraph Works	Spanish Government	Caroline - Investigator	
1874	Kyushu - Honshu, Japan	?	Japanese Government	Densimu Maru	
1874	Malta - Gozo	?	Admiralty	HMS Torch	For use by the Royal Navy
1874	Fukushima - Imabetsu, Tsugaru Straits, Japan	?	Japanese Government	Store Nordiske	August; Great Northern Telegraph Company awarded contract to lay 2 cables over this route. Laying was carried out in October
1874	Hoy, Orkneys - Houton Head, Scotland	Henleys Telegraph Works	Orkney & Shetland Telegraph Co	?	System 2.5 nm. Cable contained 1 conductor
1874	Orkney - Shetland	Henleys Telegraph Works	Orkney & Shetland Telegraph Co	?	
1874	USA - Japan				Proposed and surveyed, but never laid
1874	Alexandria, Egypt - Sitia, Crete	Telcon subcontracted the manufacture and laying to Henley's	Eastern Telegraph Co	Africa	System 360 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th covered with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 15 No. 13 homogeneous galvanised iron wires, intermediate 10 No. 2 BWG, shore ends 10 No. 00 galvanised iron wires. Cable wrapped in 2 layers jute soaked in Bright and

		Telegraph Works.			Clarks Composition. Laying commenced 22 November, completed 3 December 1873
1874	Sitia, Crete - Zante - Otranto, Italy	Telcon subcontracted the manufacture and laying to Henley's Telegraph Works.	Eastern Telegraph Co	Africa	System 238 + 187 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th covered with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 15 No. 13 homogeneous galvanised iron wires, 1st intermediate 10 No. 2½ BWG, 2nd intermediate 12 No. 9 BWG, shore ends 10 No. 00 galvanised iron wires. Cable wrapped in 2 layers jute soaked in Bright and Clarks Composition. Laying, Crete - Zante, commenced 6 December, completed 13 December 1873. Laying, Zante - Otranto commenced 3 January, completed 10 January 1874.
1875	Batabano - Cienfuegos - Santiago de Cuba, Cuba	Hoopers Telegraph Works	Cuba Submarine Telegraph Co	Great Northern	
1875	Valparaiso - La Serena - Caldera - Antofagasta - Iquique - Arica, All in Chile - Lima, Peru	India Rubber Gutta Percha & Telegraph Works	West Coast of America Telegraph Co	Dacia	Taken over by the Eastern Telegraph Company, and a new company with the same name was incorporated in 1877. The Central and South American Telegraph Company had a terminus at Chorillos, Lima and traffic was exchanged between the two companies in Lima, then the Central was granted an extension to Valparaiso so the West Coast moved its southern terminus to Concepcion.
1875	St Croix - St Thomas: St Croix - Trinidad: St Croix - Ponce	Hoopers Telegraph Works	West India & Panama Telegraph Co	Hooper - Norseman	System 49 + 635 + 140 nm.
1875	Kingston, Jamaica - Colon, Panama	India Rubber Gutta Percha & Telegraph Works	West India & Panama Telegraph Co	?	System 550 nm. Cable came into service on 1st January 1875. This cable was laid after the settlement of a dispute between West India and India Rubber over the failure to complete the 1870 cable over the same route.
1875	Punta Rassa - Sanibel Island - Key West	?	International Ocean Telegraph Co	Professor Morse	In 1890 Rhiwderin overhauled and relaid this cable.
1875	Whitehaven - Ramsey	India Rubber Gutta Percha	GPO	Caroline	

		& Telegraph Works			
1875	Orbetello, Italy - Terranova, Sardinia	Telcon	Italian PTT	Chiltern	System 118 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th coated with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 16 No. 13 BWG homogeneous galvanised iron wires, shore ends 12 No. 1 BWG. Cable wrapped in 2 layers jute soaked in Bright and Clarks Composition. Laying commenced 25 May, completed 26 May 1875
1875	(Laid in) Banyugawa Sagami	?	Japanese Government	?	System ½ km. Single conductor with gutta percha insulation
1876	La Perouse, Botany Bay, Sydney, Australia - Wakapuaka, Nelson, New Zealand	Telcon	Eastern Extension Australia & China Telegraph Co	Hibernia - Edinburgh John Seymour: First Mate, Hibernia	System 45 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha and wrapped in tanned jute. Armouring, main cable 10 No. 4 BWG, shore ends 10 No. 0 BWG galvanised iron wires. Cable wrapped in 2 layers of jute soaked in Bright and Clarks Composition. Completed September 1876
1876	Suez - Suakin - Perim - Aden	Telcon	Eastern Telegraph Co	Kangaroo - Hibernia - Seine	System 1443 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, coated with Chattertons Compound and gutta percha then sheathed in brass tape and wrapped in jute dipped in cutch. Armouring, main cable 16 No. 13 BWG homogeneous galvanised iron wires, intermediate (1) 10 No. 6 BWG, intermediate (2) 12 No. 9 BWG, shore ends (1) 10 No. 00 BWG, shore ends (2) 10 No. 2 BWG, all galvanised iron wires. Main cable part wrapped in 2 layers jute and part in 2 layers hessian tape wrapped in opposite directions. Intermediate cable (2) as main cable, intermediate (1) and shore ends 2 layers jute all dipped in Bright and Clarks Composition. Laying commenced 26 October, completed 11 November 1876
1876	Sicily - Italy (Messina Strait)	Telcon	Italian PTT	Hawk	System 3 nm. 3 copper conductors each comprised 7 strands 0.029" wire, Coated with Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring 11 No. 6 BWG plus 10 strands of 3 No. 6 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Bright and Clarks Composition.

1876	Shibukawa - Nou, Bisan Straits, Japan No 1	?	Japanese Government	?	System 8.2 km. Single conductor with gutta percha insulation
1876	Yankalilla, Kangaroo Island - Kingscote, Adelaide, Australia	Telcon	South Australian GPO	Edinburgh	System 38 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 10 No. 6 BWG, Kingscote shore end 10 No. 2 BWG, Yankalilla shore end 10 No. 00 BWG galvanised iron wires. Cable wrapped in 2 layers jute soaked in Bright and Clarks Composition. Laying commenced 25 December, completed 31 December 1875
1876	Cook Strait No 2: Whites Bay, South Island - Lyall Bay, North Island, New Zealand	Telcon; main cable. Siemens Bros; shore ends	NZ PTT	Agnes	System 45 nm. CABLE: 1 copper conductor comprised of 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha and wrapped in tanned jute. Armouring, main cable 10 No. 4 BWG, shore ends 10 No. 0 galvanised iron wires. Cable wrapped in 2 layers of jute soaked in Bright and Clarks Composition. Completed September 1876
1876	Dunnet, Scotland - Hoy Island, Orkneys	?	GPO	?	System 21 nm. Cable contained 1 conductor
1876	Hoy Island - Houton Head, Mainland, Orkneys	?	GPO	?	System 2.5 nm. Cable contained 1 conductor
1877	Marseilles, France - Bona, Algeria - Malta	Telcon	Eastern Telegraph Co	Kangaroo - Calabria	System 463 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 15 No. 13 BWG homogeneous galvanised iron wires, intermediate 10 No. 6 BWG galvanised iron wires, both wrapped in 2 layers of hessian tape wound in opposite directions, shore ends 10 No. 00 BWG galvanised iron wires, then all covered with 2 layers of jute soaked in Bright and Clarks Composition. Laying commenced 15 July, completed 21 July 1877.
1877	Bona, Algeria - Malta	Telcon	Eastern Telegraph Co	Kangaroo - Calabria	System 383 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then

					wrapped in jute soaked in cutch. Armouring, main cable 15 No. 13 BWG homogeneous galvanised iron wires, intermediate (1) 10 No. 6 BWG galvanised iron wires both covered with 2 layers of hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. intermediate (2) 10 No. 2 BWG, shore ends 10 No. 00 BWG both galvanised iron wires. Cable covered with 1 layer of jute and 1 of hessian tape soaked in Bright and Clarks Composition. Laying commenced 14 October, completed 24 October 1877.
1877	Aden - Bombay, India	Telcon	Eastern Telegraph Co	Hibernia - Seine both ships carried out 2 expeditions to lay cable.	System 1889 nm. CABLE: 1 copper conductor consisting of 7 strands 0.038 wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then wrapped in tanned jute. Armouring, main cable 9 No. 13 BWG homogeneous galvanised iron wires and 9 tarred manilla yarns wrapped alternately, then wrapped in either 2 layers jute or 2 layers hessian tape wrapped in opposite directions, intermediate (1) 10 No. 2 BWG, intermediate (2) 10 No. 6 BWG, shore ends (1) 9 No. 13 BWG homogeneous galvanised iron wires, and 9 tarred manilla yarns wrapped alternately plus 12 strands of 3 No. 6 BWG, galvanised iron wires. The whole cable then wrapped in 2 layers of jute dipped in Bright and Clarks Composition. Laying commenced, 17 November 1876, completed 7 March 1877. R. London, Engineer in Charge
1877	Rangoon, Burma - Penang, Malaya	Telcon	Eastern Extension Australasia & China Telegraph Co	Hibernia - Kangaroo	System 853 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, coated with Chattertons Compound and gutta percha then wrapped in tanned jute. Armouring, main cable 15 No. 13 BWG homogeneous galvanised iron wires, wrapped in 2 layers of hessian tape wound in opposite directions, intermediate cable 10 No. 6 BWG, shore ends 10 No. 00 BWG, both galvanised iron wires. Wrapped in 2 layers jute. The whole cable being dipped in Bright and Clarks Composition. Laying commenced 2 March, completed 18 March 1877.
1877	Carcavelos - Gibraltar (REPAIRS)	Telcon	Eastern Telegraph Co		System 10 nm. Made, 6.16 nm. laid. CABLE: 1 copper conductor comprising 7 strands 0.031" wire, covered with Chattertons Compound and gutta percha then wrapped in jute soaked in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Bright and

					Clarks Composition. Laying commenced 2 August, completed 5 August 1877.
1877	Porthcurno - Carcavelos, Portugal (REPAIRS)	Telcon	Eastern Telegraph Co		System 111.40 + 38.60 nm. CABLE: (1) 111.40 made and laid. 1 copper conductor comprised 7 strands 0.031" wire covered with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 9 No. 13 BWG homogeneous galvanised iron wires wrapped alternately with 9 strands tarred manilla yarn, then wrapped in 2 layers hessian tapes wound in opposite directions. CABLE: (2) 38.60 made and laid. As (1) except the following, Armouring, 9 No. 13 homogeneous wires each wire wrapped in 5 tarred hemp strands, then wrapped in 2 layers of jute. Both cables dipped in Bright and Clarks Composition. Laying commenced 1 September, completed 4 September 1877.
1877	1865 - 6 Atlantic cable (REPAIRS)	Telcon	Eastern Telegraph Co		CABLE: (1) 311 nm. made, 83 nm. laid. CABLE: 1 copper conductor consisting of 7 strands 0.056" wire, covered with Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires wrapped alternately with 10 tarred hemp yarns, then wrapped in 2 layers of hessian tape, wound in opposite directions dipped in Bright and Clarks Composition. CABLE: (2) 53 nm. made, 6 nm. laid. As above except the following. Armouring 10 No. 13 BWG homogeneous galvanised iron wires each wrapped in 5 strands tarred manilla yarn. No further servings added.
1878	Tenedos - Syra - Chios - Candia	Telcon	Eastern Telegraph Co	John Pender (1)	
1878	Tenedos - Constantinople	Telcon	Eastern Telegraph Co	Red Rover (2)	
1878	Antibes - Corsica	Telcon	French PTT	John Pender (1)	
1878	Alexandria, Egypt - Larnaca, Cyprus	Hoopers Telegraph Works	Eastern Telegraph Co	Great Northern	System 328 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 15 No. 13 BWG homogeneous galvanised iron wires, intermediate cable 10 No. 6 BWG, shore ends 10 No. 00 BWG, both galvanised iron wires. Cable wrapped in 2

					layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Laying commenced 11 October, completed 16 October 1878. Intermediate cable was recovered from the wreck of Hibernia. F.R. Lucas, Engineer in Charge.
1878	Lemnos - Salonika No 1	Hoopers Telegraph Works	Eastern Telegraph Co	Great Northern	
1878	Santiago de Cuba - Jamaica	India Rubber Gutta Percha & Telegraph Works	West India & Panama Telegraph Co	Investigator	System 210 nm
1878	Shibukawa - Nou, Bisan Straits, Japan No 2	?	Japanese Government	?	System 8.2 km. Single conductor with gutta percha insulation. Damaged by teredo worm and abandoned 1879
1878	Torpedo cables for British Government	Telcon	British Government	N/A	CABLE: (1) 129 nm. 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, covered with gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in calico tape. CABLE: (2) 60 nm. 4 copper conductors each of 7 strands 0.029" wire, covered with gutta percha the wrapped in jute dipped in cutch. Armouring, 16 No. 13 BWG homogeneous galvanised iron wires each wire wrapped in calico tape. CABLE: (3) 100 nm. 1 copper conductor comprised 7 strands 0.029" wire, covered with gutta percha, wrapped in jute dipped in cutch. Armouring, 12 No. 13 BWG homogeneous galvanised iron wires. Each cable wrapped in 2 layers hessian tape wrapped in opposite directions dipped in Bright and Clarks Composition.
1878	Para, Brazil - Maranham, Brazil (RENEWAL)	Telcon	Western & Brazilian Telegraph Co.	Kangaroo	System 310 nm. CABLE: 1 copper conductor comprising 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, intermediate cable 10 No. 4 BWG, shore end 10 No. 0 BWG all galvanised iron wires. Cable wrapped in 2 hessian tapes bound in opposite directions and dipped in Bright and Clarks Composition. Laying commenced 9 April, completed 15 May 1878.

1878	Maranhã - Pernambuco, Brazil (REPAIRS)	Telcon	Western & Brazilian Telegraph Co.	Calabria - Kangaroo	System 121 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 12 No. 8 BWG, intermediate (1) 10 No. 6 BWG, intermediate cable (2) 10 No. 4 BWG, shore end 10 No.0 BWG, all galvanised iron wires. Cable wrapped in 2 layers hessian tape bound in opposite directions and dipped in Bright and Clarks Composition. Laying commenced 4 March, completed 25 April 1878. Engineer in Charge F.R. Lucas.
1878	Carcavelos, Portugal shore end (REPAIR)	Telcon	Brazilian Submarine Telegraph Co.	Caroline	System 1.6 nm. CABLE: 1 copper conductor comprised 7 strands 0.031" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, then wrapped in jute soaked in cutch. Armouring, 10 No. 00 galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions, soaked in Bright and Clarks Composition. Laying commenced 28 April, completed 2 May 1878. E. Riddle, Engineer in Charge.
1879	Knock Bay, Scotland - Whitehead, Ireland	?	GPO	?	System 23 nm. Cable contained 4 conductors.
1879	Marseilles, France - Algiers, Algeria	India Rubber Gutta Percha & Telegraph Works	French PTT	Dacia - Charente	Dacia left Silvertown on 3 Sep 1879 and returned on 16 Nov after laying this cable and carrying out repairs to the Lizard - Bilbao cable
1879	Ibiza - Majorca	Henley's Telegraph Works	Spanish Government	?	
1879	Flodevig, Norway - Hoyer, Germany	Telcon	German Norwegian Telegraph Company	John Pender (1) chartered from the Eastern Telegraph Co.	System 252 nm. CABLE: 3 copper conductors each of 7 strands 0.028" wire, 6 wrapped around 7th, each coated with Chattertons Compound and gutta percha, then all wrapped together in a further layer of gutta percha and then wrapped in jute dipped in cutch. Armouring, main cable 12 No. 5 BWG galvanised iron wires, shore ends 12 No. 5 BWG and then 12 No. 00 galvanised iron wires. Cable wrapped in 2 layers hessian tape wrapped in opposite directions dipped in Bright and Clarks Composition. Laying commenced 31 July, completed 24 August 1879. F. R. Lucas, Engineer in

					Charge. From The Engineer Oct 31 1879: A new cable to connect Scandinavia to Germany has been submerged. Hitherto Germany has been obliged to send all her telegrams to Norway through Denmark and Sweden, which was not pleasant Considering her delicate relations with Denmark; and therefore she lays the line at her own cost, and all telegrams between Norway and Germany are to pass through it.
1879	Aden - Zanzibar	Telcon	Eastern & South African Telegraph Co	Kangaroo - Scotia - Calabria John Seymour: Master, Kangaroo	System 1908 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable (1) 15 No. 13 BWG, main cable (2) 9 No. 13 BWG and 9 manilla yarns wrapped alternately, both homogeneous galvanised iron wires each wire wrapped in calico tape, The following cables have brass sheathing wrapped around the core prior to the armouring being added. Intermediate cable (1) 12 No. 6 BWG intermediate (2) 10 No. 2 BWG shore ends 10 No. 00 BWG all galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions, dipped in Bright and Clarks Composition. Laying commenced 5 November, completed 25 December 1879
1879	Zanzibar - Moçambique	Telcon	Eastern & South African Telegraph Co	Calabria	System 632 nm. CABLE: 1 copper conductor comprising 7 strands 0.029" wire, covered with Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable (1) 11 No. 13 BWG, main cable (2) 9 No. 13 BWG plus 9 tanned yarns wrapped alternately, both homogewneous galvanised iron wires with each wire wrapped in calico tape. The cores in the following were sheathed in brass prior to the armouring being added. Intermediate cable (1) 10 No. 6 BWG, intermediate cable (2) 10 No. 2 BWG, shore ends 10 No. 00 BWG, all galvanised iron wires. Cable wrapped in 2 hessian tapes wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 12 September, completed 2 October 1879
1879	Moçambique - Delagoa Bay,	Telcon	Eastern & South African	Kangaroo laid the shore ends	System 967 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th, covered

	Lorenzo Marques		Telegraph Co	at Delagoa Bay - Seine	with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable (1) 11 No. 13 BWG homogeneous galvanised iron wires each wire wrapped in calico tape, main cable (2) 9 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in calico tape and wrapped alternately with 9 tarred yarns. In the following cables the core was wrapped in a brass sheath before the armouring was applied. Main cable (3) 11 No. 13 BWG homogeneous galvanised iron wires with calico tape wrapped around each wire. Intermediate cable (1) 10 No 6 BWG, intermediate cable (2) 10 No. 2 BWG and shore ends 10 No. 00 BWG, all galvanised iron wires. The whole cable was wrapped in 2 layers of hessian tape wound in different directions and dipped in Bright and Clarks Composition. Laying commenced 10 August, completed 23 August 1879. Engineer in Charge, R. London. Diverted into Beira in 1907, and a connection was made to Quelimane at the same time.
1879	Delagoa Bay, Lorenzo Marques - Port Natal, Durban, South Africa	Telcon	Eastern & South African Telegraph Co	Kangaroo John Seymour: Master, Kangaroo	System 345 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, covered in Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable, 11 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in calico tape. The following have a brass sheath wrapped around the core before the armouring is added. Intermediate cable 10 No. 6 BWG, shore end (1) 10 No. 2 BWG, shore end (2) 10 No. 00 BWG, all galvanised iron wires and all wrapped in 2 layers hessian tape, wound in opposite directions dipped in Bright and Clarks Composition. Shore end (3) 10 No. 6 BWG plus 12 strands of 3 No. 6 BWG galvanised iron wires, no further servings added. Laying commenced 5 July, completed 21 July 1879. Diverted into Beira in 1907 From <i>The Engineer</i> , Oct 24, 1879: The local representative of the Eastern Telegraph Company gives notice that a cable between Durban and Delagoa Bay [now Maputo Bay] has been completed. The section is, therefore, now open to the public. The rate from Durban to Delagoa Bay is 1s-3d. per word. The Imperial, Portuguese, and Colonial Governments are

					entitled to half rates. Aden - Zanzibar was the last link, in service 25 Dec 1879 (<i>NYT</i>).
1879	Penang - Malacca, Malaya	Telcon	Eastern Extension Australasia & China Telegraph Co	Edinburgh	System 275 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, coated with Chattertons Compound and gutta percha then wrapped in jute soaked in cutch. Core sheathed in brass tape before armouring is applied. Armouring, main cable 10 No. 6 BWG, shore ends 10 No. 00 BWG both galvanised iron wires. Cable wrapped in 2 layers hessian tape, wound in opposite directions and dipped in Bright and Clarks Composition. Laying commenced 11 July, completed 19 July 1879. E. Riddle, Engineer in Charge.
1879	Malacca, Malaya - Singapore	Telcon	Eastern Extension Australasia & China Telegraph Co	Scotia - Edinburgh	System 116 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Core sheathed in brass before the armouring added. Armouring, main cable 10 No. 6 BWG, shore ends 10 No. 00 BWG both galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Edinburgh commenced laying 19 July, Scotia completed laying 15 August 1879. Engineer in Charge, E Riddle.
1879	Singapore - Banjoewangie, Java, DEI	Telcon	Eastern Extension Australasia China Telegraph Co	Scotia - Edinburgh	System 920 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, coated with Chattertons Compound and gutta percha then wrapped in jute soaked in cutch. Core sheathed in brass before armouring applied. Armouring, main cable (1) 12 No. 9 BWG, main cable (2) 10 No. 6 BWG, intermediate cable 10 No. 2 BWG, shore ends 10 No. 00 BWG. All galvanised iron wires. Cable wrapped in 2 layers hessian tape, wound in opposite directions, dipped in Bright and Clarks Composition. Laying commenced 16 August, completed 9 December 1879. E. Riddle, Engineer in Charge.
1879	St Pierre - Cape Breton Island	Siemens Bros	La Compagnie Française du Télégraphe de Paris à New York	Faraday (1)	System 188 nm.
1880	Brest, France -	Siemens Bros	La Compagnie	Faraday (1)	System 151 nm.

	Cornwall, England		Française du Télégraphe de Paris à New York		
1880	Banjoewangie, Java - Darwin, Australia	Telcon	Eastern Extension Australasia China Telegraph Co	Seine - Edinburgh	System 1131 nm. CABLE: 1 copper conductor comprising 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then sheathed in brass tape and wrapped in jute dipped in cutch. Armouring, main cable 11 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in calico tape. Core of the following sheathed in brass before jute serving is added. Intermediate cable 10 No. 6 BWG, shore ends 10 No. 00 BWG, both galvanised iron wires. Cable wrapped in 2 layers hessian tape, wrapped in opposite directions dipped in Bright and Clarks Composition. Laying commenced Banjoewangie 17 Dec 1879, completed Darwin 27 Jan 1880. E. Riddle, Engineer in Charge. WFS 1950. Part of the cable was recovered by C&W.
1880	Cook Strait No 3 : Wanganui - Wakapuaka, New Zealand	Telcon	New Zealand PO	Kangaroo John Seymour: Master, Kangaroo	System 120 nm 10 nm Type A and 110 nm Type B. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable (110 nm.) 10 No. 6 BWG galvanised iron wires, wrapped in 2 layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Shore ends 10 No. 6 BWG, plus 10 strands of 3 No. 6 BWG galvanised iron wires. Laying commenced Wakapuaka 10 February, completed Wanganui 11 February 1880. Engineer in Charge, J.S. Sherwin. Cable sample case shows the manufacturing date as 1879, the cable opened for service in 1880.
1880	Hong Kong - Bolinao, Philippines	Telcon 555 nm	Eastern Extension Australasia China Telegraph Co	Calabria	System 529 nm. 1 copper conductor comprising 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable (1) 9 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in calico tape, wires wrapped alternately with 9 tarred hemp yarns. The core of the following was sheathed in brass tape before the jute serving was added. main cable (2) 12 No. 13 BWG homogeneous

					galvanised iron wires, each wire wrapped in calico tape. Intermediate cable 10 No. 6 BWG, shore end (1) 10 No. 2 BWG, shore end (2) 10 No. 00 BWG, all galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Laying commenced HK 25 April, completed Bolinao 30 April 1880. E. Riddle, Engineer in Charge.
1880	Placentia - St Pierre	Telcon	Anglo American Telegraph Co	Seine	System 100 nm. CABLE: 3 copper conductors each of 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring main cable 12 No. 4 BWG, shore end (1) 12 No. 4 BWG plus 12 strands of 3 No. 6 BWG, shore end (2) 12 No. 1 BWG all galvanised iron wires. Main cable and shore end (2) wrapped in 2 layers of hessian tape, wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced at Placentia 24 July, completed at St. Pierre 26 July 1880. Captain R.C. Halpin in overall command.
1880	St Pierre - North Sydney	Telcon	Anglo American Telegraph Co	Kangaroo	System 185 nm. CABLE: 3 copper conductors each of 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring main cable 12 No. 4 BWG, shore end (1) 12 No. 4 BWG plus 12 strands of 3 No. 6 BWG, shore end (2) 12 No. 1 BWG all galvanised iron wires. Main cable and shore end (2) wrapped in 2 layers of hessian tape, wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 27 September, completed 1 October 1880. Engineer in Charge, R. London.
1880	Blackwater, Ireland - Abermawr, Wales	?	GPO	?	System 55.5 nm. Cable contained 4 conductors. Cable abandoned 1922/3
1880	Newbiggin by the Sea, England - Arendal, Norway - Marstrand, Sweden	Telcon	Great Northern Telegraph Co	Edinburgh	System 513 nm. CABLE: Newbiggin - Arendal 419 nm. 1 copper conductor comprised 7 strands 0.038" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable (1) 12 No. 6 BWG, main cable (2) 12 No. 8 BWG, Newbiggin, shore end (1) 12 No. 8 BWG plus 14 No. 1 BWG, Newbiggin (2) and Marstrand shore end 12 No. 1 BWG. CABLE: Arendal - Marstrand, 94 nm.,

					as Newbiggin - Arendal. Shore end Arendal, 2 copper conductors each as above. Armouring, 15 No. 6 BWG plus 15 No. 1 BWG, all galvanised iron wires. Cable wrapped in 2 layers of jute with 3 coatings of Bright and Clarks Composition. Laying commenced 9 September, completed 24 September 1880. Opened for service October 1880.
1880	Valentia, Ireland - Heart's Content, Newfoundland	Telcon	Anglo American Telegraph Co	Scotia - Seine	System 1882 nm., of which 1506 nm. was new cable, 200 nm. refurbished 1877 Atlantic cable and the rest existing cable. CABLE: 1 copper conductor consisting of 7 strands 0.049" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha, wrapped in jute dipped in cutch. Armouring, main cable (1) 10 No. 13 BWG homogeneous galvanised iron wires wrapped alternately with 10 tarred yarns. Each wire coated with 1 layer of Chattertons Compound then wrapped in 1 layer of tape. Main cable (2) as (1) except, armouring 10 No. 13 BWG galvanised steel wires. Main cable (3) As (1) except, armouring, 12 No. 13 BWG, 2 coats Chattertons Compound and 2 tapes on each wire. Main cable (4) as (3) except, armouring 12 No. 13 BWG galvanised steel wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. Scotia spliced on to the existing cable 170 nm from Hearts Content on 11 August, transferred cable to Seine 18 August. Scotia made the final splice 94 nm. from Valentia 21 August 1880. Captain R.C. Halpin in overall command.
1880	Jersey - France	?	Submarine Telegraph Co	?	Taken over by the GPO in 1890
1880	Marseilles, France - Algiers, Algeria	India Rubber Gutta Percha & Telegraph Works	French PTT	Dacia	Dacia left Silvertown on 11 Sep 1880 and returned on 18 Oct.
1880	Pellworm - Amrum Is - Hooge Is	Felten & Guilleaume - Siemens & Halske	?	Delphin	System 12 nm.
1881	Lipari - Salina, Messina, Italy	Telcon	Italian PTT	Chiltern	System 7.5 nm. CABLE: 1 copper conductor consisting of 7 strands 0.029" wire, 6 wrapped around 7th, covered with Chattertons Compound and gutta percha.

					Armouring, 10 No. 6 galvanised iron wires. Cable wrapped in 2 layers of jute soaked in Bright and Clarks Composition.
1881	Euboea - Skiathos: Oreas - Stavro: Laurium - Zea: Hydra - Metochi	Telcon	Greek Government - Eastern Telegraph Co	Retriever (1)	
1881	Galveston, Texas, USA - Tampico, Mexico - Vera Cruz, Mexico	India Rubber Gutta Percha & Telegraph Works	Mexican Telegraph Co	Dacia - International	System 738 nm. Dacia left Silvertown on 6 Dec 1880 to lay these cables and carry out repairs to the Havana - Key West cables, returning on 26 July 1881.
1881	Canso, Nova Scotia - Whitesand Bay, Sennen Cove, England	Siemens Bros	American Telegraph & Cable Co	Faraday (1)	System 2531 nm. Extended to New York in 1889 by Faraday (1). Leased by Western Union. Diverted into Bay Roberts, Newfoundland in 1913. First submerged telegraph repeater was inserted in the cable in 1950.
1881	Batabano - Cienfuegos - Santiago de Cuba	Hoopers Telegraph Works	Cuba Submarine Telegraph Co	Hooper	
1881	Tehuantepec, Mexico - La Libertad, El Salvador - San Juan del Sur, Nicaragua - Puntarenas, Costa Rica - Balboa, Panama - Buenaventura, Colombia - Santa Elena, Ecuador - Payta, Peru - Chorillos, Peru	India Rubber Gutta Percha & Telegraph Works	Central & South American Telegraph Co	Silvertown - Retriever (1)	System 3200 nm. Dacia left Silvertown on 15 Nov 1881 and returned there on 1 Jun 1882.
1881	Scatha Bay, Orkney -	?	GPO	?	System 66 nm. Cable contained 1 conductor

	Sandwick Bay, Shetland				
1881	Ardine Point, Scotland - Ardbeg Point, Bute	?	GPO	?	System 1.4 nm. Cable contained 4 conductors
1881	Singapore - Batavia	Telcon	Eastern Extension Australasia & China Telegraph Co	Seine	System 537 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then sheathed in brass tape and wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, shore ends 10 No. 00 BWG, both galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions, dipped in Bright and Clarks Composition. Laying commenced Singapore 14 November, completed Batavia 23 November 1881. R. London, Engineer in Charge.
1881	1869 Brest, France - St. Pierre (REPAIRS)	Telcon	Anglo American Telegraph Co	Scotia	System 81 nm. All cable from Anglo American Telegraph Co. stock. CABLE : (1) 64 nm. 1 copper conductor comprised 7 strands 0.056" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in 5 tarred manilla yarns. Cable "whipped" and dipped in Bright and Clarks Composition. CABLE: (2) 12 nm. 1 copper conductor comprised 7 strands 0.049" wire, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 10 No. 13 BWG homogeneous galvanised iron wires, each wire coated with 1 layer Chattertons Compound and 1 tape, then wrapped alternately with 10 tarred yarns. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. CABLE: (3) 5 nm. As CABLE (2) except armouring, 10 No. 13 BWG galvanised steel wires. Laying took place 18 November to 13 December 1880 and 8 June to 13 July 1881. Engineer in Charge, F.R. Lucas.
1882	Canso, Nova Scotia - Whitesand Bay,	Siemens Bros	American Telegraph & Cable Co	Faraday (1)	System 2531 nm. Extended to New York in 1889 by Faraday (1). Leased by Western Union. Diverted into Bay Roberts, Newfoundland in 1915.

	Sennen Cove, England				
1882	Galveston, Texas, USA - Coatzacoalcos, Mexico	India Rubber Gutta Percha & Telegraph Works	Mexican Telegraph Co	Dacia	Dacia left Silvertown on 15 Nov 1881 to lay this cable and the one below, arriving back on 1 Jun 1882
1882	Coatzacoalcos - Vera Cruz, Mexico	India Rubber Gutta Percha & Telegraph Works	Central & South American Telegraph Co	Dacia	System 180 nm.
1882	Malta - Tripoli, Libya	Telcon	Eastern Telegraph Co	Kangaroo	System 204 nm. 1 copper conductor consisting of 7 strands 0.028" wire, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 10 No. 13 BWG homogeneous galvanised iron wires each wire coated with 1 layer of Chattertons Compound then wrapped in 1 layer of hessian tape, intermediate 10 No. 2 BWG, shore ends 10 No. 00 BWG, both galvanised iron wires. Cable wrapped in 2 layers hessian tape dipped in Bright and Clarks Composition. Laying commenced 19 October, completed 25 October 1882. E. Riddle, Engineer in Charge.
1882	Corfu - Otranto No 2	Telcon	Eastern Telegraph Co	?	
1882	Corfu - Trieste	Telcon	Eastern Telegraph Co	Kangaroo	System 503 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, covered with 3 layers of Chattertons Compound alternately with 3 layers of gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 15 No. 13 BWG homogeneous galvanised iron wires, intermediate cable 10 No. 6 BWG, shore end (1) Trieste 10 No. 00 BWG, shore end (2) both ends 10 No. 2 BWG, all galvanised iron wires. Cable wrapped in 2 layers of hessian tape, wound in opposite directions, dipped in Bright and Clarks Composition. Laying commenced Trieste 3 January, completed Corfu 9 January 1882. Engineer in Charge, R.C. Halpin.
1882	Alexandria - Port Said, Egypt	Telcon	Eastern Telegraph Co	John Pender (1)	Laying commenced 25 August 1882
1882	Carcavelos,	Telcon	Brazilian	Seine	System 626 nm. CABLE: 1 copper conductor consisting of

	Portugal - Madeira (2)		Submarine Telegraph Co		7 strands 0.031" wire, 6 wrapped around 7th coated with 3 alternate layers of Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable (1) 9 No. 13 BWG homogeneous galvanised iron wires, wound alternately with 9 manilla yarns, each wire wrapped in hessian tape coated with 2 layers of Bright and Clarks Composition. Main cable (2) as (1) with armouring 11 No. 13 BWG, each wire wrapped in tape dipped in Bright and Clarks Composition. Intermediate cable 10 No. 6 BWG galvanised iron wires, shore ends (1) 10 No. 6 BWG plus 12 strands 3 No. 6 galvanised iron wires, shore end (2) Carcavelos, 10 No. 2 BWG. Except shore end (1) cable wrapped in 2 layers hessian tape wound in opposite directions, dipped in Bright and Clarks Composition. Laying commenced Madeira, 30 September, completed 19 October 1882. Cable parted during laying on "SEINE" shoal. Engineer in Charge R. London.
1882	Emden - Greetsiel	Felten & Guilleame	German Union Telegraph Co	Scotia - Kangaroo - Gamecock - Stormcock	This cable and the entry below were laid to provide Germany with a direct link to the Anglo-American Telegraph Co. cables.
1882	Greetsiel - Borkum - Valentia	Telcon	German Union Telegraph Co	Kangaroo laid the shore ends - Scotia the main cable - Stormcock (tender) assisted	System 841 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, intermediate (1) 10 No. 2 BWG, intermediate (2) 12 No. 9 BWG, shore ends 10 No. 6 BWG plus 10 strands 3 No. 6 BWG, all galvanised iron wires. Cable excluding shore ends wrapped in 2 layers of hessian tape, wound in opposite directions, dipped in Bright and Clarks Composition. Land line (buried) to Emden supplied but not laid, as above but armouring 15 No. 9 BWG, this cable covered in 2 layers of jute. Laying commenced 4 April, completed 10 April 1882. Engineer in Charge, F.R. Lucas. In 1911 the cable was diverted into Brest forming a Borkum - Brest link and the rest of the cable abandoned.
1882	Koujiro - Kurano, Yamaguchi-ken, Japan	?	Japanese Government	?	System 3.4 km. Double conductor with gutta percha insulation

1882	Moss Bank, Mainland, Shetland - Yell Island, Shetland	?	GPO	?	System 2.6 nm. Cable contained 1 conductor
1882	La Calle, Bona, Algeria - Bizerte, Tunisia	?	French PTT	Charente	Laying commenced 21 June at La Calle and was completed on 28 June
1882	Ceara - Maranham, Brazil	Telcon	Western & Brazilian Telegraph Co.	Kangaroo	System 404 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable 12 No. 8 BWG, shore ends 10 No. 00 BWG, both galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions, dipped in Bright and Clarks Composition. Laying commenced 8 April, completed 12 April 1882. Engineer in Charge, J.S. Sherwin.
1882	1874 Atlantic (REPAIRS) off Valentia	Telcon	Anglo American Telegraph Co	Gamecock laid CABLE (1) shore end - Kangaroo laid CABLE (2) intermediate	System 2 + 2 nm. CABLE: (1) From existing stock: 1 copper conductor comprised 7 strands 0.056" wire, coated with Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires each wire wrapped in 5 tarred yarns, plus 12 strands of 3 No. 6 BWG galvanised iron wires. CABLE: (2) Made in 1880. 1 copper conductor comprised 7 strands 0.049" wire, covered with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 12 No. 6 BWG galvanised iron wires. Laying commenced 11 January, completed 4 February 1882. Engineer in Charge F.R. Lucas.
1882	Lowestoft - Borkum - Greetsiel (REPAIRS) North Sea	Telcon	German Union Telegraph Co	Kangaroo, 22 October to 31 December 1881. Also delivered landline to Borkum 30 September 1881. Stormcock, 24	System 4.5 nm. + 10 nm. + 15 nm. CABLE: (1) 4 copper conductors each of 7 strands 0.029" wire, coated with Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG, galvanised iron wires. Cable wrapped in 2 layers hessian tapes dipped in Bright and Clarks Composition. Taken into stock. CABLE: (2) As CABLE (1) Laid adjacent to Lowestoft shore end. CABLE: (3) Landline (buried) 15 nm. made, 3.25 nm. laid, from and to new cable house on Borkum. As CABLE (1) but armouring 18 No. 9 BWG,

				December 1881 to 22 March 1882, laid CABLE (2) and also recovered 30 nm of cable adjacent to CABLE (2) and relaid it. Gamecock, 12 February to 24 February 1882.	cable wrapped in 2 layers of jute dipped in Bright and Clarks Composition. E. Riddle, Engineer in Charge.
1882	St Vincent - Pernambuco (REPAIRS) 1st Expedition off Pernambuco	Telcon	Brazilian Submarine Telegraph Co	Kangaroo	System 2 nm. CABLE: 1 copper conductor comprising 7 strands 0.031" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 10 No. 00 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape, wound in opposite directions, dipped in Bright and Clarks Composition. Laying began 24 March, completed 1 April 1882. Engineer in Charge, J Sherwin.
1882	St. Vincent - Pernambuco (REPAIRS) 2nd Expedition off Pernambuco	Telcon	Brazilian Submarine Telegraph Co	Kangaroo	System 2 + 8.5 nm. CABLE: 1 copper conductor comprising 7 strands 0.031" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, shore end (1) 12 No. 9 BWG plus 10 strands of 3 No. 6 BWG galvanised iron wires, shore end (2) 12 No. 9 BWG plus 12 No. 1 BWG galvanised iron wires, this cable covered in 2 layers hessian tape wound in opposite directions, dipped in Bright and Clarks Composition. Laying commenced 25 June, completed 5 July 1882. J.S. Sherwin, Engineer in Charge.
1882	Porthcurno - Carcavelos (2) (REPAIRS)	Telcon	Brazilian Submarine Telegraph Co	Seine - John Pender (1) - Retriever (2)	System 42 nm. Brazilian Telegraph Co. stock. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers Chatterons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, 10 No. 13 homogeneous galvanised iron wires each wire wrapped in 5 tarred manilla yarns. Laying commenced 28 July, completed 12

					August 1882. E Riddle, Engineer in Charge. John Pender (1) and Retriever (2) spent several months trying to locate the fault, without success.
1882	Brest - St. Pierre (REPAIRS) 3 faults	Telcon	Anglo American Telegraph Co	Scotia	System 87.5 nm. new cable + 130 nm. Anglo American stock. NEW CABLE: (1) 1 copper conductor consisting of 7 strands 0.056" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 homogeneous galvanised iron wires wrapped alternately with 10 tarred yarns. CABLE: (2) As CABLE (1) except 7 strands 0.049" wire, Armouring, 10 No. 13 homogeneous galvanised iron wires 1 layer Chattertons Compound and 1 hessian tape on each wire. CABLE (3) As CABLE (1) These cables wrapped in 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. CABLE (4) As CABLE (1) except Armouring, 10 No. 13 homogeneous galvanised iron wires, each wire wrapped in 5 hemp yarns. No further servings added. Scotia left Gravesend 15 May and completed the work on 20 September 1882. Engineer in Charge, F. R. Lucas
1882	Carcavelos - Madeira (REPAIRS) 1873 Cable	Telcon	Brazilian Telegraph Co	Seine	System 1.2 nm. CABLE: Brazilian Telegraph Co. stock. 1 copper conductor consisting of 7 strands 0.031" wire 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires plus 12 strands of 3 No. 6 BWG galvanised iron wires. Cable covered in 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 23 October, completed 1 November 1882. R. London, Engineer in Charge. The 12 strands 3 No. 6 BWG were added to the original cable.
1882	1874 Atlantic (REPAIRS) off Valentia	Telcon	Anglo American Telegraph Co	Gamecock laid CABLE (1) shore end - Kangaroo laid CABLE (2) intermediate	System 2 + 2 nm. CABLE: (1) From existing stock: 1 copper conductor comprised 7 strands 0.056" wire, coated with Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires each wire wrapped in 5 tarred yarns, plus 12 strands of 3 No. 6 BWG galvanised iron wires. CABLE: (2) Made in 1880. 1 copper conductor comprised 7 strands 0.049" wire, covered with Chattertons Compound and gutta percha

					then wrapped in jute dipped in cutch. Armouring, 12 No. 6 BWG galvanised iron wires. Laying commenced 11 January, completed 4 February 1882. Engineer in Charge F.R. Lucas.
1882	Lowestoft - Borkum - Greetsiel (REPAIRS) North Sea	Telcon	German Union Telegraph Co	Kangaroo, 22 October to 31 December 1881. Also delivered landline to Borkum 30 September 1881. Stormcock, 24 December 1881 to 22 March 1882, laid CABLE (2) and also recovered 30 nm of cable adjacent to CABLE (2) and relaid it. Gamecock, 12 February to 24 February 1882.	System 4.5 nm. + 10 nm. + 15 nm. CABLE: (1) 4 copper conductors each of 7 strands 0.029" wire, coated with Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG, galvanised iron wires. Cable wrapped in 2 layers hessian tapes dipped in Bright and Clarks Composition. Taken into stock. CABLE: (2) As CABLE (1) Laid adjacent to Lowestoft shore end. CABLE: (3) Landline (buried) 15 nm. made, 3.25 nm. laid, from and to new cable house on Borkum. As CABLE (1) but armouring 18 No. 9 BWG, cable wrapped in 2 layers of jute dipped in Bright and Clarks Composition. E. Riddle, Engineer in Charge.
1882	St Vincent - Pernambuco (REPAIRS) 1st Expedition off Pernambuco	Telcon	Brazilian Submarine Telegraph Co	Kangaroo	System 2 nm. CABLE: 1 copper conductor comprising 7 strands 0.031" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 10 No. 00 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape, wound in opposite directions, dipped in Bright and Clarks Composition. Laying began 24 March, completed 1 April 1882. Engineer in Charge, J Sherwin.
1882	St. Vincent - Pernambuco (REPAIRS) 2nd	Telcon	Brazilian Submarine Telegraph Co	Kangaroo	System 2 + 8.5 nm. CABLE: 1 copper conductor comprising 7 strands 0.031" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch.

	Expedition off Pernambuco				Armouring, shore end (1) 12 No. 9 BWG plus 10 strands of 3 No. 6 BWG galvanised iron wires, shore end (2) 12 No. 9 BWG plus 12 No. 1 BWG galvanised iron wires, this cable covered in 2 layers hessian tape wound in opposite directions, dipped in Bright and Clarks Composition. Laying commenced 25 June, completed 5 July 1882. J.S. Sherwin, Engineer in Charge.
1882	Porthcurno - Carcavelos (2) (REPAIRS)	Telcon	Brazilian Submarine Telegraph Co	Seine - John Pender (1) - Retriever (2)	System 42 nm. Brazilian Telegraph Co. stock. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers Chatterons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, 10 No. 13 homogeneous galvanised iron wires each wire wrapped in 5 tarred manilla yarns. Laying commenced 28 July, completed 12 August 1882. E Riddle, Engineer in Charge. John Pender (1) and Retriever (2) spent several months trying to locate the fault, without success.
1882	Brest - St. Pierre (REPAIRS) 3 faults	Telcon	Anglo American Telegraph Co	Scotia	System 87.5 nm. new cable + 130 nm. Anglo American stock. NEW CABLE: (1) 1 copper conductor consisting of 7 strands 0.056" wire, 6 wrapped around 7th, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 homogeneous galvanised iron wires wrapped alternately with 10 tarred yarns. CABLE: (2) As CABLE (1) except 7 strands 0.049" wire, Armouring, 10 No. 13 homogeneous galvanised iron wires 1 layer Chattertons Compound and 1 hessian tape on each wire. CABLE (3) As CABLE (1) These cables wrapped in 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. CABLE (4) As CABLE (1) except Armouring, 10 No. 13 homogeneous galvanised iron wires, each wire wrapped in 5 hemp yarns. No further servings added. Scotia left Gravesend 15 May and completed the work on 20 September 1882. Engineer in Charge, F. R. Lucas
1882	Carcavelos - Madeira (REPAIRS) 1873 Cable	Telcon	Brazilian Telegraph Co	Seine	System 1.2 nm. CABLE: Brazilian Telegraph Co. stock. 1 copper conductor consisting of 7 strands 0.031" wire 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires plus 12 strands of 3 No. 6 BWG galvanised iron wires. Cable covered in 2

					layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 23 October, completed 1 November 1882. R. London, Engineer in Charge. The 12 strands 3 No. 6 BWG were added to the original cable.
1883	Fishguard, Wales - Blackwater, Ireland	India Rubber Gutta Percha & Telegraph Works	GPO	Dacia	System 62 nm. Cable contained 4 conductors
1883	Hong Kong - Wusung, Shanghai, China	Telcon	Eastern Extension Australasia China Telegraph Co	Scotia - Sherard Osborn	System 886 nm. CABLE: 1 copper conductor comprised 7 strands 0.028" wire, 6 wrapped around 7th, coated alternately with 3 layers of Chattertons Compound and gutta percha sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, main cable 14 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in tape dipped in Chattertons Compound. Intermediate cable (1) 10 No. 2 BWG, intermediate cable (2) 12 No. 6 BWG, intermediate cable (3) 14 No. 9 BWG, shore ends 10 No. 00 BWG, all galvanised iron wires. Cable wrapped in 2 layers of hessian tape wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 22 February, completed 23 March 1883. E. Riddle, Engineer in Charge.
1883	Aden - Suez (3)	Telcon	Eastern Telegraph Co	Kangaroo made two voyages - Seine made one voyage	System 1403 nm. CABLE: 1 copper conductor comprising 7 strands 0.041" wire, covered with 3 alternate layers of Chattertons Compound and gutta percha then sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, main cable 14 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in tape dipped in Chattertons Compound. Intermediate cable (1) 10 No. 2 BWG, intermediate cable (2) 12 No. 6 BWG, intermediate cable (3) 14 No. 9 BWG, shore ends 10 No. 00 BWG, all galvanised iron wires. Cable wrapped in 2 layers of hessian tape wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 5 February, completed 9 April 1883. F.R. Lucas, Engineer in Charge
1883	Vladivostock, Russia - Nagasaki, Japan	Telcon	Great Northern Telegraph Co	Scotia	System 753 nm. CABLE: 1 copper conductor comprised 7 strands 0.038" wire, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in

					jute dipped in cutch. Armouring, main cable 17 No. 13 BWG homogeneous galvanised iron wires, wrapped in 2 layers hessian tape wound in opposite directions, intermediate 15 No. 6 BWG plus 16 No. 1 BWG, shore ends 12 No. 1 BWG, all galvanised iron wires. These wrapped in 2 layers of jute and the whole cable dipped in Bright and Clarks Composition. Laying commenced 15 July, completed 26 July 1883. R. London, Engineer in Charge.
1883	Nagasaki, Japan - Gutzlaff Island, Shanghai	Telcon	Great Northern Telegraph Co	Scotia - Seine	System 404 nm. CABLE: 1 copper conductor comprised 7 strands 0.038" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable 17 No. 13 BWG homogeneous galvanised iron wires, shore ends 12 No. 1 BWG galvanise iron wires. Cable wrapped in 2 layers jute dipped in Bright and Clarks Composition. Laying commenced 28 July, completed 12 August 1883. R. London, Engineer in Charge.
1883	Gutzlaff Island, - Wusung, Shanghai, China	Telcon	Great Northern Telegraph Co	Seine - Store Nordiske and a "lighter" (flat bottomed barge)	System 58 nm. CABLE: 3 copper conductors each consisting of 7 strands 0.038" wire, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 15 No. 6 BWG plus 15 No. 1 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Bright and Clarks Composition. Laying commenced 1 September and one conductor was found to be faulty, repairs took until 21 October 1883.
1883	St Louis, Senegal - Tenerife	India Rubber Gutta Percha & Telegraph Works	French PTT	Dacia - International	
1883	Cadiz - Las Palmas: Confital - Regla: Garachio - Santa Cruz la Palma	India Rubber Gutta Percha & Telegraph Works	Spanish National Telegraph Co	Dacia - International	System 827 + 55 + 77 nm.
1883	Nagasaki - Gutzlaff (1871) REPAIRS	Original cable manufactured by Hoopers	Great Northern Telegraph Co	Seine	R. London, Engineer in Charge.

		Telegraph Co. and armoured by Siemens Bros			
1883	St. Vincent - Pernambuco (REPAIRS)	Telcon	Brazilian Submarine Telegraph Co	Scotia	System 260 nm cable made, 41.4 nm laid. CABLE: 1 copper conductor comprised 7 strands 0.049" wire, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires wrapped alternately with 10 hemp yarns, each wire coated with Chattertons Compound and 1 layer of tape. Cable wrapped in 2 layers hessian tape dipped in Bright and Clarks Composition. Laying commenced 16 November, completed 5 December 1883
1884	Straits of Kertch	Siemens Bros	Indo European Telegraph Co		System 15 nm.
1884	The Lizard, England - Bilbao, Spain (2)	India Rubber Gutta Percha & Telegraph Works	Direct Spanish Telegraph Co	Scotia	System 474 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 9 No. 13 BWG homogeneous galvanised iron wires, wrapped alternately with 9 hemp yarns, each wire coated with Bright and Clarks Composition and wrapped in tape. Intermediate cable (1) 12 No. 9 BWG, intermediate cable (2) 10 No. 6 BWG, intermediate cable (3) 10 No. 2 BWG, shore ends (1) 10 No. 00 BWG, shore ends (2) 10 No. 6 BWG plus 12 strands of 3 No. 6 BWG, all galvanised iron wires. All except shore ends (2) wrapped in 2 layers of hessian tape, wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 7 May, completed 12 May 1884. Engineer in Charge, F.R. Lucas. Cable landing was moved to Falmouth and then to Porthcurno. Taken over by Eastern in 1884.
1884	Benacre, England - Zandvoort, Holland 1	?	GPO	?	System 108.5 nm. Cable contained 4 conductors
1884	Hong Kong - Tonkin	Telcon	Eastern Extension	Sherard Osborn - Seine	

			Australasia China Telegraph Co		
1884	Tonkin - Hue, French Indo China (Vietnam)	Telcon	Eastern Extension Australasia China Telegraph Co	Calabria - Kangaroo	System 271 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Shore end core wrapped in brass sheathing before the jute is added. Armouring, main cable 15 No. 13 BWG homogeneous galvanised iron wires, intermediate cable (1) 10 No. 6 BWG, intermediate cable (2) 10 No. 2 BWG, shore ends 10 No. 00 BWG, all galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 25 January, completed 9 February 1884. E. Riddle, Engineer in Charge.
1884	Hue - Saigon, French Indo China (Vietnam)	Telcon	Eastern Extension Australasia China Telegraph Co	Calabria - Kangaroo	System 516 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Shore ends core wrapped in brass sheathing before jute and cutch added. Armouring, main cable 15 No. 13 BWG homogeneous galvanised iron wires, intermediate cable (1) 10 No. 6 BWG, intermediate cable (2) 10 No. 2 BWG, shore ends 10 No. 00 BWG, all galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 26 January, completed 14 February 1884. E. Riddle, Engineer in Charge.
1884	Hong Kong - Macau	Telcon	Eastern Extension, Australasia China Telegraph Co	Sherard Osborn	System 35 nm. CABLE: 1copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha . Shore end core wrapped in brass sheathing then wrapped in jute dipped in cutch. Armouring, main cable 10 No. BWG, shore ends 10 No. 00 BWG, galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 13 February, completed 17 February 1884.
1884	Madeira - St	Telcon	Brazilian	Scotia	System 1168 nm. CABLE: 1 copper conductor consisting

	Vincent, Cape Verde Islands (2)		Submarine Telegraph Co		of 7 strands 0.032" wire, 6 wrapped around 7th, covered with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 9 No. 13 BWG wrapped alternately with 9 hemp yarns, intermediate cable (1) 12 No. 13 BWG, both, homogenous galvanised iron wires, each wire coated with 1 layer of Bright and Clarks Composition and wrapped in tape. Intermediate cable (2), 12 No. 9 BWG, intermediate (3) 10 No. 6 BWG, shore end (1) 10 No. 00 BWG, shore end (2) 10 No. 6 plus 12 strands of 3 No. 6 BWG all galvanised iron wires. All except shore end (2) wrapped in 2 layers hessian tape, wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 19 March, completed 31 March 1884. F.R. Lucas, Engineer in Charge.
1884	St Vincent, Cape Verde Islands - Pernambuco (Recife), Brazil (2)	Telcon	Brazilian Submarine Telegraph Co	Scotia - Calabria	System 1787 nm. CABLE: 1copper conductor consisting of 7 strands wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable 10 No. 13 BWG wrapped alternately with 10 hemp yarns, intermediate cable (1) 15 No. 13 BWG, both homogeneous galvanised iron wires, each wire coated with Bright and Clarks Composition and wrapped in 1 layer of tape. Intermediate cable (2) 10 No. 6 BWG, shore end (1) 10 No. 00 BWG, shore end (2) 10 No. 6 BWG plus 12 strands of 3 No. 6 BWG, all galvanised iron wires. Except shore end (2) all covered with 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 18 June, completed 8 July 1884. F.R. Lucas, Engineer in Charge.
1884	Zante - Patros No 1	Telcon	Eastern Telegraph Co	Chiltern - Volta	
1884	Patras - Corinth No 1	Telcon	Eastern Telegraph Co	Chiltern	
1884	Kalamaki - Piraeus No 1	Telcon	Eastern Telegraph Co	Volta	
1884	Lemnos - Tenedos	Telcon	Eastern Telegraph Co	Volta	
1884	Corfu - Santa	Telcon	Greek	Volta	

	Maura: Corfu - Paxos: Argostoli - Lixuri: Skopelos - Skiathos: Trikeri - Vathi		Government - Eastern Telegraph Co		
1884	Aden - Perim	Telcon	Eastern Telegraph Co	?	Laid at the request of the Perim Coal Company, who agreed to spend a minimum of 1060 per annum on telegrams via the ETC network. They also undertook to supply ETC staff with rations and water and other back up services.
1884	Compass Cove, Dartmouth, England - Fort Doyle, Guernsey	?	?	?	System 67 nm. Cable contained 3 conductors
1884	St. Martin's Point, Guernsey - Grève au Lancon, Jersey	?	?	?	System 16 nm. Cable contained 3 conductors
1884	Workhead, Mainland - Shapinsay, Orkneys	?	GPO	?	System 2 nm. Cable contained 1 conductor
1884	Stronsay - Sanday, Orkneys	?	GPO	?	System 3 nm. Cable contained 1 conductor
1884	Burray, Orkney - Howequay Head, Orkney	?	GPO	?	System 2.75 nm. Cable contained 1 conductor
1884	South Uist - Barra, Outer Hebrides	?	GPO	?	System 16.5 nm. Cable contained 1 conductor
1884	Java - Sumatra, DEI.	Telcon	Dutch PTT	Seine	System 36 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha. Core wrapped in brass sheath then wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, shore end 10 No. 00 BWG both galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition.

					Laying commenced 13 February, completed 17 February 1884.
1884	Walton - "Sunk Lightship"	Telcon	Trinity House		System 9.2 nm. CABLE: 1 copper conductor consisting of 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 10 No.1 BWG, Walton shore end (1) 10 No. 00 BWG, Walton shore end (2) 12 No. 9 BWG, these wrapped in 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. Sunk "shore end" (2) 15 strands of 7 No. 22 BWG, white manilla serving, all galvanised iron wires. Sunk "shore end" (1) 10 No. 2 BWG plus 14 strands of 3 No. 4 BWG galvanised steel wires.
1884	Saigon - Singapore (RENEWAL) Renewal near Singapore	Telcon	Eastern Extension Australasia China Telegraph Co	Seine	System 158 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then sheathed in brass and wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, shore end 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 3 February, completed 6 February 1884.
1884	Banjoewangie - Darwin (RENEWAL) Renewal near Darwin	Telcon	Eastern Extension, Australasia and China Telegraph Company	Seine	System 406 nm. CABLE: 1 copper conductor consisting of 7 strands 0.031" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then sheathed in brass and wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, shore end 10 No. 2 BWG all galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions and each layer coated with Bright and Clarks Composition. Laying commenced 6 March 1884, completed 13 March 1884. Seine recovered 309 nm. of old cable.
1884	St. Vincent - Pernambuco (REPAIRS) Near St. Vincent	Telcon	Brazilian Submarine Telegraph Co	Scotia	System 4.75 nm. CABLE: 1 copper conductor comprised 7 strands 0.031" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, shore end 10 No. 00 BWG all

					galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions and each layer coated with Bright and Clarks Composition. Laying completed 28 March 1884. F. R. Lucas, Engineer in Charge.
1884	Madeira - St Vincent, Cape Verde Islands (1) (REPAIR) Repair near St. Vincent	Telcon	Brazilian Submarine Telegraph Co	Scotia carried out this repair after laying the St. Vincent - Pernambuco cable.	System 1 + 3.20 nm. Spare cable from tank on St. Vincent used. CABLE: (1) 1nm. 1 copper conductor comprised 7 strands 0.031" wire, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 12 No. 9 BWG galvanised iron wires. CABLE: (2) 3.20 nm. 1 copper conductor comprised 7 strands wire, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 15 No. 13 BWG homogeneous galvanised iron wires, each wire coated with Bright and Clarks Composition and wrapped in 1 layer of tape. Both cables wrapped in 2 layers hessian tape, wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 18 July, completed 20 July 1884.
1884	Madeira - St Vincent, Cape Verde Islands (1) (REPAIR) Repair near Ferro	Telcon	Brazilian Submarine Telegraph Co	Scotia carried out this repair after completing the above repair.	CABLE: (2) 14.44 nm. 1 copper conductor comprised 7 strands wire, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires, wrapped alternately with 10 hemp yarns, each wire coated with Bright and Clarks Composition and wrapped in 1 layer of tape. Both cables wrapped in 2 layers hessian tape, wound in opposite directions dipped in Bright and Clarks Composition. Laying commenced 24 July, completed 29 July 1884.
1884	Penang - Rangoon (RENEWAL) Renewal near Penang.	Telcon	Eastern Extension Australasia China Telegraph Co	Seine	System 101 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then sheathed in brass tape and wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, shore end 10 No. 2 BWG both galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Laying commenced 30 July, completed 2 August 1884. Engineer in Charge, M. Corder.

1884	Hoyer - Arendal (REPAIR)	Telcon	German-Norwegian Telegraph Company	Kangaroo	System 0.33 nm. CABLE: 3 copper conductors each consisting of 7 strands 0.028" wire, coated individually with 3 alternate layers of Chattertons Compound and gutta percha then all cores laid up together coated with gutta percha and wrapped in jute dipped in cutch. Armouring, 12 No. 5 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Laying commenced 12 November, completed 16 November 1884. Engineer in Charge, J.S. Sherwin.
1884	Madeira - St Vincent, Cape Verde Islands (REPAIR) Repair near Madeira.	Telcon	Brazilian Submarine Telegraph Co	Kangaroo	System 0.70 + 0.30 nm. CABLE: (1) 1 copper conductor comprising 7 strands wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 homogeneous galvanised iron wires each wire wrapped in 5 tarred yarns, then covered with 12 strands of 3 No. 6 BWG galvanised iron wires. CABLE: (2) 1 copper conductor comprised 7 strands 0.031" wire, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 6 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Laying commenced 15 December, completed 18 December 1884. J.S. Sherwin, Engineer in Charge.
1884	MAIN - 1 & 2: Dover Bay, Nova Scotia - Waterville, Ireland - Weston super Mare: Waterville, Ireland - Le Havre, France	Siemens Bros	Commercial Cable Co	Faraday (1)	System 6500 nm. Two cables were laid between Canada and Ireland. One was linked to the UK the other to France. (See 1885 entries). In 1909 CS Mackay Bennett diverted one cable into Cuckold's Cove , near St Johns, Newfoundland, the work was completed on 14 July. In 1910 the second cable was diverted to the same place also by Mackay Bennett.
1884	NY - 3: Dover Bay, Nova Scotia - Duxbury, Mass: Dover Bay - Far Rockaway, Long Island	Siemens Bros	Commercial Cable Co	Faraday (1)	Included with the above

1884	ROCKPORT: Rockport, USA - Canso, Nova Scotia	Siemens Bros	Commercial Cable Co	Faraday (1)	System 518 nm.
1885	WESTON - 1: Waterville, Ireland - Weston super Mare, England	Siemens Bros	Commercial Cable Co	Faraday (1)	330 nm
1885	HAVRE - 1: Waterville, Ireland - Le Havre, France	Siemens Bros	Commercial Cable Co	Faraday (1)	514 nm
1885	Havana, Cuba - Key West	India Rubber Gutta Percha & Telegraph Works	International Ocean Telegraph Co	Dacia	Cable landed at Key West on 10th May
1885	Syra - Chios No 2	Telcon	Eastern Telegraph Co	Volta	
1885	Flinders, Victoria - Low Head, Tasmania	Telcon	Eastern Extension, Australasia and China Telegraph Company	Sherard Osborn	Laying commenced 23 November 1885. Duplicate cable laid about six miles east of the 1869 cable. The company contract to operate this and the 1869 cable expired on 30 April 1909
1885	Bathurst, Gambia - St Jago, Cameroons - St Vincent, Cape Verde Islands	India Rubber Gutta Percha & Telegraph Works	African Direct Telegraph Co	Dacia - Buccaneer	
1885	St Louis, Senegal - Dakar, Senegal - Bathurst, Gambia - Boloma, Portuguese Guinea - Bissau -	India Rubber Gutta Percha & Telegraph Works	West African Telegraph Co	Dacia - Buccaneer - Silvertown	

	Konakry, French Guinea - Freetown, Sierra Leone: Bassam, Ivory Coast - Accra, Gold Coast - Cotonou, Dahomey - St Thomas (Island) - Luanda, Angola: St Thomas - Principe (Island) - Libreville, Gabon				
1885	Zanzibar - Mozambique (2)	Telcon	Eastern & South African Telegraph Co	Seine	System 686 nm. 1 copper conductor consisting of 7 strands 0.032" wire, coated with 3 alternate layers of Chattertons Compound and gutta percha. Main cable wrapped in jute dipped in cutch. Armouring, 9 No. 13 BWG homogeneous galvanised iron wires wrapped alternately with 9 hemp yarns, each wire coated with 1 layer Chattertons Compound then wrapped in 1 layer of tape. The following were sheathed in brass tape then wrapped in jute dipped in cutch. Intermediate cable (1), as main cable less the hemp yarns, armouring 12 No. 13 BWG, intermediate cable (2) 10 No. 6 BWG, shore end (1), Zanzibar only, 10 No. 2 BWG, shore ends (2) 10 No. 00 BWG, all galvanised iron wires, wrapped in 2 layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Shore ends (3) 10 No. 6 BWG plus 15 strands of 7 No. 22 BWG galvanised iron wires. Laying commenced 4 August, completed 19 August 1885. Engineer in Charge F.R. Lucas.
1885	St. Bees, Whitehaven, England - Port Cornah, Isle of Man	?	GPO	?	System 31 nm. Cable contained 3 conductors
1885	Bushire - Jask	India Rubber Gutta Percha	Indo European Telegraph	Dacia - International	Laying commenced on 12th December and was completed on 20th December

		& Telegraph Works			
1885	Port na Cross, Fairlie, Ayshire, Scotland - Corrie, Arran	?	GPO	?	System 9.5 nm. Cable contained 4 conductors
1885	Sinclair Bay, Wick, Scotland - Sandwick Bay, Shetland Is.	?	GPO	?	System 122 nm. Cable contained single conductor
1885	Rerwick Head, Mainland - Stronsay, Orkneys	?	GPO	?	System 10 nm.
1885	Port Cranaig, Cantyre - Arran, Scotland	?	GPO	?	System 3.25 nm. Cable contained 3 conductors
1885	Burghead - Helmsdale, Scotland	?	GPO	?	System 26 nm. Cable contained 3 conductors
1885	Hurst Castle - Yarmouth, Isle of Wight	?	?	?	System 2.25 nm. Cable contained 3 conductors
1885	Admiralty (Baltic cable)	Telcon	Admiralty		System 1000 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 12 No. 9 BWG, intermediate cable 10 No. 6 BWG, shore end (1) 10 No. 2 BWG, shore end (2) 10 No. 00 BWG, all galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions, dipped in Bright and Clarks Composition.
1885	Admiralty (Torpedo cable)	Telcon	Admiralty		System 1 nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 12 strands of 7 No. 20 BWG galvanised steel wires. Covered with tanned hemp dipped in Chattertons Compound.

1885	Saddle Island - Port Hamilton	Telcon purchased the cable from the Eastern Extension, Australasia & China Telegraph Co.	?	Sherard Osborn	System 323 nm.
1885	Crookhaven - Fastnet Lighthouse	Telcon	Trinity House	Kangaroo	System 8½ nm. CABLE: 1 copper conductor comprised 7 strands 0.031" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG plus 10 strands of 3 No. 6 BWG, shore end 15 No. 13 BWG all galvanised iron wires. Shore end wrapped in 2 layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Laying commenced 13 January, completed 14 January 1885. Engineer in Charge E. Riddle.
1885	Crookhaven - Fastnet Lighthouse (REPAIR) Repair off Fastnet	Telcon	Trinity House	Medina	System 0.325 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha. Core then wrapped in brass sheathing, then wrapped in jute dipped in cutch. Armouring, 10 No. 6 BWG plus 10 strands of 3 No. 4 BWG, all galvanised iron wires. Cable repaired 4 May 1885.
1885	Cuxhaven - Heligoland (REPAIR)	Telcon	Hamburg - Heligoland Telegraph Co.	Medina	System 8 + 9 nm. CABLE: (1) 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 6 BWG plus 10 strands of 3 No. 6 BWG. CABLE: (2) As CABLE (1) except armouring 10 No. 6 BWG wrapped in 2 layers hessian tape wound in opposite directions coated with 2 layers Bright and Clarks Composition. Laying commenced 20 May, completed 13 June 1885. E. Riddle, Engineer in Charge.
1885	Walton - "Sunk Lightship" (REPAIR)	Telcon	Trinity House	Medina delivered the cable to the lightship on 26 July 1885.	System 3 nm. CABLE: 1 spiral copper conductor, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 11 strands of 7 No. 22 BWG plus 15 strands of 7 No. 22 BWG

					galvanised iron wires wrapped in tanned hemp yarn dipped in Chattertons Compound.
1885	Walton - "Sunk Lightship" (REPAIR)	Telcon	Trinity House	?	System 0.2 nm. CABLE: 1 spiral copper conductor, coated with Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 11 strands of 6 No. 17 BWG plus 18 strands of 6 No. 17 BWG galvanised iron wires wrapped in tanned hemp yarn dipped in Chattertons Compound.
1885	Crookhaven - Fastnet Lighthouse (REPAIR)	Telcon	Trinity House	Medina	System 0.2 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, covered with 3 alternate layers of Chattertons Compound and gutta percha then sheathed in brass tape and wrapped in jute dipped in cutch. Armouring 10 No. 6 BWG plus 10 strands off 3 No. 4 BWG galvanised iron wires. Laying commenced 9 December, completed 10 December 1885. J.S. Sherwin, Engineer in Charge.
1886	Hurst Castle - Sconce Point, Isle of Wight	?	?	?	System 1.25 nm. Cable contained 7 conductors
1886	Porthcurno, England - St. Mary's - Isle of Tresecow, Scilly Isles	?	?	?	System 27.5 + 1 nm. Cable contained 1 conductor
1886	Harris - North Uist, Outer Hebrides	?	GPO	?	System 11.5 nm. Cable contained 1 conductor
1886	Aber Geirch, Wales - Newcastle, Ireland No 1	?	GPO	?	System 55 nm. Cable contained 4 conductors
1886	Penang - Singapore	Telcon	Eastern Extension, Australasia and China Telegraph Company	Seine	System 398 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha. Core sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, wrapped in 2 layers hessian tape wound in opposite directions. Shore ends (1) 10 No. 00 BWG, wrapped in 2 layers jute coated with 2 layers Chattertons Compound. Shore ends

					(2) 10 No. 6 BWG plus 12 strands of 3 No. 6 BWG. Laying commenced 28 May, completed 5 June 1886. Engineer in Charge, E. Riddle.
1886	Bathurst, Gambia - Freetown, Sierra Leone	Telcon	African Direct Telegraph Co	Scotia - Britannia (2)	System 462 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th coated with 3 alternate layers of Chattertons Compound and gutta percha. Core sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, main cable 12 No. 9 BWG, intermediate cable 10 No. 6 BWG galvanised iron wires. These sections wrapped in 2 layers hessian tape wound in opposite directions and coated with 2 layers of Chattertons Compound. Shore ends (1) 10 No. 2 BWG, shore end (2) (Freetown only) 10 No. 00 BWG galvanised iron wires. These sections wrapped in 2 layers of jute and coated with 2 layers Chattertons Compound. Laying commenced 19 June, completed 12 July 1886. Engineer in Charge, F.R. Lucas.
1886	Freetown, Sierra Leone - Accra, Gold Coast	Telcon	African Direct Telegraph Co	Scotia - Britannia (2) Britannia (2) carried out a repair to the cable on 25 September 1886.	System 1020 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped cutch. Main cable, 688 nm. sheathed in brass tape before jute wrapping, 252 nm. without brass sheathing. Armouring, main cable 12 No. 9 BWG galvanised iron wires for both sections. The core of the following sections were sheathed in brass tape before being wrapped in jute. Intermediate cable 10 No. 6 BWG. These sections wrapped in 2 layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Shore ends (1) 10 No. 2 BWG, shore end (2) (Freetown) 10 No. 00 BWG, these sections wrapped in 2 layers of jute dipped in Bright and Clarks Composition. Shore end (3) (Accra) 10 No. 6 BWG plus 12 strands of 3 No. BWG. All armouring galvanised iron wires. Laying commenced 12 July, completed 23 August 1886. F.R. Lucas, Engineer in Charge.
1886	Accra, Gold Coast - Lagos, Nigeria	Telcon	African Direct Telegraph Co	Scotia - Britannia (2)	System 260 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Main cable 202 nm. without brass sheathing, 23 nm. with brass sheathing added before the jute serving. Armouring,

					main cable 12 No. 9 BWG. The core for the following is sheathed in brass tape and then wrapped in jute dipped in cutch. Intermediate cable 10 No.6 BWG. These wrapped in 2 layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Shore ends (1) 10 No. 2 BWG wrapped in 2 layers jute dipped in Bright and Clarks Composition. Shore ends (2) 10 No. 6 BWG plus 12 strands of 3 No. 6 BWG. All armouring galvanised iron wires. Laying commenced 23 July, completed 27 August 1886. Engineer in Charge, F.R. Lucas.
1886	Lagos - Brass, Nigeria	Telcon	African Direct Telegraph Co	Scotia - Britannia (2)	System 269 nm. 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha. Main cable core, 202 nm. wrapped in jute dipped in cutch, 25 nm. sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, main cable 12 No. 9 BWG, intermediate cable 10 No. 6 BWG. These sections wrapped in 2 layers hessian tape wound in opposite directions and coated with 2 layers Chattertons Compound. Shore ends (1) 10 No. 2 BWG, wrapped in 2 layers of jute coated with 2 layers Chattertons Compound. Shore ends (2) 10 No. 6 BWG plus 12 strands of 3 No. 6 BWG, all galvanised iron wires. Laying commenced 4 August, completed 15 September 1886. Engineer in Charge F.R. Lucas.
1886	Brass - Bonny, Nigeria	Telcon	African Direct Telegraph Co	Scotia - Britannia (2)	System 68 nm. 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha. Core sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, wrapped in 2 layers hessian tape and coated with 2 layers Chattertons Compound. Shore ends (1) 10 No. 2 BWG, wrapped in 2 layers of jute coated with 2 layers Chattertons Compound. Shore ends (2) 10 No. 6 BWG plus 12 strands of 3 No. 6. Laying commenced 4 September, completed 9 September 1886. Engineer in Charge, F.R. Lucas.
1886	Crookhaven - Fastnet	Telcon	Trinity House	Medina	System ½ nm. CABLE: 1 copper conductor comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta

	Lighthouse. (REPAIR)				percha then wrapped in jute dipped in cutch. Armouring, 11 strands of 6 No. 17 BWG, left hand twist, plus 18 strands of 6 No. 17 BWG, right hand twist. Laying commenced 13 April, completed 16 April 1886. Engineer in Charge, J.S. Sherwin.
1886	Hoyer - Arendal (REPAIR)	Telcon	German-Norwegian Telegraph Company	Britannia (2)	System 1.3 nm. CABLE: 3 copper conductors each consisting of 7 strands 0.028" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha, then combined and covered with a further layer of gutta percha wrapped in jute dipped in cutch. Armouring, 12 No. 5 BWG galvanised iron wires. Cable then wrapped in 2 layers hessian tape wound in opposite directions and dipped in Bright and Clarks Composition. Laying commenced 11 January, completed 7 February 1886. Engineer in Charge, J.S. Sherwin.
1887	Zante - Patros 2	Telcon	Eastern Telegraph Co	Volta	
1887	Porthcurno - Carcavelos	Telcon	Eastern Telegraph Co	Scotia	System 892 nm. CABLE: 1 copper conductor consisting of 7 strands 0.041" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable (1) 665 nm. 9 No. 13 BWG wrapped alternately with 9 hemp yarns, main cable (2) 62 nm. 12 No. 13 BWG, both homogeneous galvanised iron wires, each wire coated with 1 layer of Chattertons Compound and wrapped in 1 layer hessian tape. Intermediate cable 10 No. 6 BWG. These sections wrapped in 2 layers hessian tape wound in opposite directions and coated with 2 layers Chattertons Compound. Shore ends (1) 10 No. 2 BWG, shore ends (2) 10 No. 00 BWG, these sections wrapped in 2 layers jute coated with 2 layers Chattertons Compound. Laying commenced, 14 July, completed 21 July 1887. Engineer in Charge F.R. Lucas.
1887	Carcavelos - Gibraltar	Telcon	Eastern Telegraph Co	Scotia	System 337 nm. CABLE: 1 copper conductor consisting of 7 strands 0.041" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 12 No. 9 BWG, intermediate cable (Carcavelos) 10 No. 6 BWG. These sections wrapped in 2 layers hessian tape coated with 2 layers of Chattertons

					Compound. Shore ends (1) 10 No.2 BWG, shore end (2) (Gibraltar) this section sheathed in brass tape before being wrapped in jute dipped in cutch. 10 No. 2 BWG, shore end (3) (Carcavelos) 10 No. 00 BWG, all galvanised iron wires. All shore ends wrapped in 2 layers jute coated with 2 layers Chattertons Compound. Laying commenced 22 July, completed, 27 July 1887. Engineer in Charge, F.R. Lucas.
1887	Gibraltar - Malta	Telcon	Eastern Telegraph Co	Scotia	System 1126 nm. CABLE: 1 copper conductor comprised 7 strands 0.041" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 12 No. 13 BWG homogeneous galvanised iron wires each wire coated with Chattertons Compound and wrapped in 1 layer tape. Intermediate cable (1) 10 No. 6 BWG, intermediate cable (2) (Malta) 12 No. 9 BWG. All the above sections wrapped in 2 layers hessian tape wound in opposite directions and coated with 2 layers Chattertons Compound. shore ends (1) 10 No. 2 BWG, shore end (2) (Gibraltar) 10 No. 00 BWG all galvanised iron wires. Shore ends wrapped in 2 layers jute coated with 2 layers Chattertons Compound. Laying commenced, 27 September, completed 12 October 1887. F.R. Lucas, Engineer in Charge.
1887	Malta - Zante, Greece	Telcon	Eastern Telegraph Co	Scotia	System 374 nm. CABLE: (1) 349 nm. 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. CABLE: (2) 4 nm. As cable (1) except conductor, 7 strands 0.041" wire. Armouring for both, 12 No. 13 BWG homogeneous galvanised iron wires, each wire coated with Chattertons Compound and wrapped in 1 layer of tape. Cable then wrapped in 2 layers hessian tape wound in opposite directions and coated with 2 layers Chattertons Compound. These 2 sections comprise the main cable. All the following sections as CABLE: (1) except armouring and or final serving. Intermediate cable, armouring, 10 No. 6 BWG, wrapped in hessian as CABLE (1). Shore ends (1) 10 No. 2 BWG, shore end (2) (Zante) 10 No. 00 BWG. All galvanised iron wires. Shore ends wrapped in 2 layers jute coated with 2 layers

					Chattertons Compound. Laying commenced 8 October, completed 11 October 1887. Engineer in Charge, F.R. Lucas. CABLE: (2) was surplus cable from the Gibraltar - Malta cable laying expedition.
1887	Mainland - Yell Island, Shetland	?	GPO	?	System 3 nm. Cable contained 1 conductor
1887	Yell Island - Unst, Shetland	?	GPO	?	System 1.25 nm. Cable contained 1 conductor
1887	Burray, Orkney - South Ronaldsay, Orkney	?	GPO	?	System 1.5 nm. Cable contained 1 conductor
1887	Largs, Scotland - Great Cumbrae Island	?	GPO	?	System 1.4 nm. Cable contained 1 conductor
1887	Tamsui, Formosa (Taiwan) - Sharp Peak (Min river), China	India Rubber Gutta Percha & Telegraph Works	Imperial Chinese Government	Fu Chou The ship's name is variously recorded as Fee Chew, Fee Cheu, Feichen, Feicheu, and Foochow	?
1887	Amping/Tai-Wan-Fu, Formosa - Pescadore Islands	India Rubber Gutta Percha & Telegraph Works	Imperial Chinese Government	Fu Chou	?
1887	Massawa - Assab, Eritrea	Telcon	?	Seine	System 278 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha. Shore end cores sheathed in brass tape then all sections wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, shore ends (1) 10 No. 2 BWG, shore ends (2) 10 No. 00 BWG, all galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions and coated with 2 layers of Chattertons Compound. Laying commenced 21 March, completed 26 March 1887. E. Riddle, Engineer in Charge.

1887	Assab, Eritrea - Perim Island, Ta'izz, Yemen	Telcon	?	Seine	System 55 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha. Shore end cores sheathed in brass tape then all sections wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG, shore ends (1) 10 No. 2 BWG, shore end (2) (Assab) 10 No. 00 BWG, all galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions and coated with 2 layers of Chattertons Compound. Laying commenced 27 March, completed 29 March 1887. E. Riddle, Engineer in Charge.
1887	Valentia - Newfoundland (REPAIR) 1873 cable, new shore end at Valentia	Telcon	Anglo American Telegraph Co	Britannia (2)	System 21 nm. CABLE: 1 copper conductor consisting of 7 strands 0.049" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, shore end (1) 10 No. 1 BWG, shore end (3) 14 No. 9 BWG, these wrapped in 2 layers jute coated with 2 layers Chattertons Compound. Shore end (2) 12 No. 6 BWG plus 12 strands of 3 No. 6 BWG, all galvanised iron wires. Laying commenced 9 August, completed 19 August 1887. M. Corder.
1887	Valentia - Newfoundland (REPAIR) 1880 cable, new shore end Valentia	Telcon	Anglo American Telegraph Co	Britannia (2)	System 16 nm. CABLE: 1 copper conductor consisting of 7 strands 0.049" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, shore end (1) 10 No. 1 BWG, shore end (3) 14 No. 9 BWG, these wrapped in 2 layers jute coated with 2 layers Chattertons Compound. Shore end (2) 12 No. 6 BWG plus 12 strands of 3 No. 6 BWG, all galvanised iron wires. Laying commenced 9 August, completed 10 September 1887. M. Corder.
1887	Valentia - Newfoundland (REPAIR) 1874 cable, new shore end Valentia	Telcon	Anglo American Telegraph Co	Britannia (2)	System 16 nm. CABLE: 1 copper conductor consisting of 7 strands 0.049" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, shore end (1) 10 No. 1 BWG, shore end (3) 14 No. 9 BWG, these wrapped in 2 layers jute coated with 2 layers Chattertons Compound. Shore end (2) 12 No. 6 BWG plus 12 strands of 3 No. 6 BWG, all galvanised iron wires. Laying commenced 9 August, completed 13 September 1887. M. Corder.

1887	Lowestoft - Greetsiel (REPAIR)	Telcon	German Union Telegraph Co.	Britannia (2)	System 5 nm. 4 copper conductors each comprised 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions coated with 2 layers Chattertons Compound. Laying commenced 23 June, completed 2 July 1887. Engineer in Charge, J.S. Sherwin.
1887	Valentia - Greetsiel (REPAIR) Repair near Beachy Head.	Telcon	German Union Telegraph Co.	Britannia (2)	System 10 nm. CABLE: no details listed. Laying commenced 19 December, completed 22 December 1887. Engineer in Charge, J.S. Sherwin.
1888	Santiago de Cuba - Guantanamo, Cuba - St Nicholas Mole - Cap Haitien, Haiti - Puerto Plata, Dominican Republic	Henley's Telegraph Works supplied half the core and armoured the whole cable: La Société Générale des Téléphones supplied half the core.	La Societe Française des Télégraphes Sous-Marins	Westmeath	System 50 + 125 + 96 + 116 nm. Henley's Telegraph Works were responsible for installing the cables.
1888	Puerto Plata - Santo Domingo, Dominican Republic	?	?	?	Landline to link to the cable to Venezuela.
1888	Santo Domingo, Dominican Republic - Willemstad, Curacao - La Guaira, Venezuela	Henley's Telegraph Works supplied half the core and armoured the whole cable: La Société Générale des Téléphones	La Societe Française des Télégraphes Sous-Marins	Roddam	System 453 nm. Henley's Telegraph Works were responsible for installing the cables.

		supplied half the core.			
1888	Bali - Macassar - Java	Telcon	Dutch East Indies Government	Seine	System 373 + 76 nm. CABLE: 1 core 107/140 comprised 7 strands copper wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha, then sheathed in brass tape and wrapped in jute dipped in cutch. Armouring, main cable 12 No. 9 BWG, intermediate cable 10 No. 6 BWG, shore ends 10 No. 00 BWG, all galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions and dipped in Chattertons Compound. Laying Bali - Macassar commenced 29 September, completed 3 October 1888. Bali - Java commenced 3 October, completed 5 October 1888. Engineer in Charge, E. Riddle.
1888	Port Kale, Scotand - Whitehead, Ireland	?	GPO	?	System 25.5 nm Cable contained 4 conductors
1888	Chio - Chesme 2	Telcon	Eastern Telegraph Co	Amber	
1888	River Plate	Telcon	River Plate Telegraph Co	Norseman (1)	
1888	Mull - Coll - Tiree, Scotland	?	GPO	?	System 9.4 +2.2 nm. Cables contained 1 conductor
1888	Carcavelos, Portugal - Madeira (REPAIR) Cable (2) Repair at Funchal	Telcon	Brazilian Submarine Telegraph Co	Britannia (2)	System 0.10 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 6 BWG plus 12 strands of 3 No. 6 BWG, all galvanised wires. Laying commenced and completed 23 January 1888. J. S. Sherwin, Engineer in Charge.
1888	Madeira - St. Vincent (REPAIR) Cable (1) Repair near Funchal	Telcon	Brazilian Submarine Telegraph Co	Britannia (2)	System 10 nm. CABLE: (1) 9 nm. 1 core 250/250 comprised 7 strands copper wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in 1 layer of tape and wrapped alternately with 10 hemp yarns. Cable wrapped in 2 layers tape dipped in Bright and Clarks Composition.

					CABLE: (2) 1 nm. 1 core 255/340 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG, each wire wrapped in 5 yarns, plus 12 strands of 3 NO. BWG, galvanised iron wires. Laying commenced 25 January, completed 9 February 1888. Engineer in Charge, J. S. Sherwin.
1888	Lowestoft - Greetsiel (REPAIR)	Telcon	German Union Telegraph Co.	Britannia (2)	System 6 nm. CABLE: 4 copper conductors each consisting of 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha, then all 4 covered together with a further layer of gutta percha then wrapped in jute dipped in cutch. Armouring, 12 No. 3 galvanised iron wires. Cable wrapped in 2 layers jute dipped in Bright and Clarks Composition. Laying commenced 1 April, completed 5 April 1888. Engineer in Charge, M. Corder.
1888	Cuxhaven - Heligoland (REPAIR)	Telcon	Hamburg - Heligoland Telegraph Co.	Britannia (2)	System 1 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 6 BWG plus 10 strands of 3 No. 6 BWG, all galvanised iron wires. Laying commenced 11 April, completed 12 April 1888. Engineer in Charge, M. Corder.
1888	Lowestoft - Greetsiel (REPAIR)	Telcon	German Union Telegraph Co.	Britannia (2)	System 0.5 nm. CABLE: 4 copper conductors each consisting of 7 strands 0.029" wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha, then all 4 covered together with a further layer of gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 2 galvanised iron wires. Cable wrapped in 2 layers tape dipped in Bright and Clarks Composition. Laying commenced 14 April, completed 16 April 1888. Engineer in Charge, M. Corder.
1888	Ballinskelligs - Halifax (REPAIRS) 2 faults	Telcon	Direct United States Cable Co.	Scotia	System 220 nm. CABLE: 1 copper conductor comprised 7 strands 0.056" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 10 No. 13 BWG homogeneous galvanised iron wires each wire wrapped in 1 layer of tape and wrapped alternately with 10 yarns. Cable wrapped in 2 layers of tape dipped in Bright and Clarks Composition. Laying commenced 25

					May, completed 8 August 1888. Engineer in Charge, F.R. Lucas.
1888	Carcavelos, Portugal - Madeira (REPAIR) Cable (1) Repair near Funchal.	Telcon	Brazilian Submarine Telegraph Co	Britannia (2)	System 4 nm. CABLE: (1) 1nm. 1 core 255/340 comprised 7 strands copper wire, 6 wrapped around 7th, coated with 3 alternate layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in 5 yarns. Covered with 12 strands of 3 No. 6 BWG. CABLE: (2) as above except the following. 1 core 130/130. Armouring, 10 No. 2 BWG. Cable covered in 2 layers jute dipped in Bright and Clarks Composition. CABLE: (3) 2 nm. As CABLE (2) except the following, 2 nm. Armouring, 10 No. 6 BWG. Cable wrapped in 2 layers hessian tape wound in opposite directions, dipped in Bright and Clarks Composition. CABLE (2) & (3) galvanised iron wires. Laying commenced 26 August, completed 4 September 1888.
1889	Fort de France, Martinique - Point à Pirie, Guadelope - St Louis, Marie Galante	La Société Générale des Téléphones	La Societe Française des Télégraphes Sous-Marins	Westmeath	System 106 + 19 nm. Henley's Telegraph Works were responsible for installing the cables.
1889	Patras - Corinth 2	Telcon	Eastern Telegraph Co	Chiltern	
1889	Kalamaki - Piraeus No 2	Telcon	Eastern Telegraph Co	John Pender (1)	
1889	Candia - Canea	Telcon	Eastern Telegraph Co	Amber	
1889	Cape Town - Nolloth - Mossamedes, Angola	Telcon 1532 nm	Eastern & South African Telegraph Co	Scotia	System 1485 nm. 1core 175/140 comprised 7 strands copper wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, main cable (1) 12 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in tape and coated with Chattertons Compound. The following cores sheathed in brass tape then wrapped in jute dipped in cutch and all galvanised iron wires. Main cable (2) 12 No. 9 BWG, intermediate cable (1) 10 No. 6 BWG. The above all wrapped in 2 layers hessian tape wound in opposite

					directions and coated with 2 layers Chattertons Compound. Intermediate cable (2) 10 No 2 BWG, shore ends (1) 10 No. 00 BWG, these wrapped in 2 layers jute coated with Chattertons Compound. Shore ends (2) 10 No. BWG plus 12 strands of 3 No.6 BWG. Laying commenced 3 April, completed 30 April 1889. Engineer in Charge, F.R. Lucas.
1889	Mossamedes - Benguela - Luanda	India Rubber Gutta Percha & Telegraph Works	Eastern & South African Telegraph Co	Silvertown	
1889	Bonny, Nigeria - Principe (Island of)	India Rubber Gutta Percha & Telegraph Works	West African Telegraph Co	Silvertown	
1889	Banjoewangie, Java - Roebuck Bay, Broome, WA, Australia	Telcon	Eastern Extension, Australasia & China Telegraph Co	Seine	System 890 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable (1) 9 No. 13 BWG each wire wrapped in tape and coated with Chattertons Compound, wires wrapped alternately with 9 hemp yarns. Main cable (2) 12 No. 13 BWG each wire covered with tape and coated with Chattertons Compound. The cores of the following sections were sheathed in brass tape before being wrapped in jute. Intermediate cable (1) 12 No. 9 BWG, intermediate cable (2) 10 No. 6 BWG. These sections were wrapped in 2 layers of hessian tape wound in opposite directions dipped in 2 layers Chattertons Compound. Shore ends 10 No. 00 BWG these wrapped in 2 layers jute dipped in Chattertons Compound. All galvanised iron wires. Laying commenced 17 February, completed 26 February 1889. Engineer in Charge, E. Riddle.
1889	Para - Pernmabuco - Rio de Janeiro - Maldonado - Montevideo	Telcon	Brazilian Submarine Telegraph Co	Scotia - Seine John Seymour: Master, Seine	
1889	Perim (Aden) -	Telcon	French	Chiltern	System: Perim: Shore end Type E 2nm; Main cable: Type

	Obock		Government		B 61nm; Obock: Shore end Type E 2nm
1889	Montevideo - Chuy	Telcon	Western & Brazilian Telegraph Co.	Seine - Viking (1)	System 202 nm. 1 core 130/130 comprised 7 strands copper wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 12 No. 8 BWG, this section being wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Shore ends 12 No. 8 BWG plus 14 No. 2 BWG wrapped in 2 layers jute dipped in Chattertons Compound. Both sections galvanised iron wires. Laying commenced 9 December, completed 11 December 1889. Engineer in Charge, J.S. Sherwin. Seine laid the main cable, Viking, shore ends.
1889	Lowestoft - Greetsiel (REPAIR)	Telcon	German Union Telegraph Co.	Britannia (2)	System 7 nm. CABLE: 4 copper conductors each comprised 7 strands 0.029" wire, 6 warped around 7th, coated with 3 alterante layers of Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, shore end 12 No. 3 BWG plus 12 strands of 3 No. 6 BWG, main cable 10 No. 2 BWG, all galvanised iron wires. Laying commenced 26 November 1888, completed 4 January 1889. Engineers in Charge, J.S. Sherwin, M. Corder.
1889	Banjoewangie - Darwin (REPAIR) (80)	Telcon	Eastern Extension, Australasia & China Telegraph Co	Seine	System 0.50 nm. CABLE: 1 copper conductor comprised 7 strands 0.032" wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha sheathed in brass tape, then wrapped in jute dipped in cutch. Armouring 10 No. 6 galvanised iron wires wrapped in 2 layers hessian tape wound in opposite directions and coated with 2 layers Chattertons Compound. Laying commenced and completed 12 March 1889. Engineer in Charge, E. Riddle. "SEINE" broke the cable.
1889	Ballinskelligs - Halifax (REPAIRS) Repair on Great Bank.	Telcon	Direct United States Cable Co.	Britannia (2)	System 2.10 nm. CABLE: 1 core 400/360 comprised 7 strands copper wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires, each wire wrapped in tape coated with Chattertons Compound. Wires wrapped alternately with 10 hemp yarns. Cable wrapped in 2 layers hessian tape wound in opposite

					directions dipped in Chattertons Compound. Laying commenced 10 May, completed 18 May 1889. Engineer in Charge, M. Corder.
1889	Ballinskelligs - Halifax (REPAIRS) 2nd repair on Great Bank.	Telcon	Direct United States Cable Co.	Britannia (2)	System 3.4 nm. CABLE: 1 core 400/360 comprised 7 strands copper wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 15 No. 9 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape dipped in Chattertons Compound. Laying commenced 31 October, completed 12 November 1889. Engineer in Charge, E, Riddle.
1889	Brest, France - St. Pierre (REPAIR) (69)	Telcon	Anglo American Telegraph Co	Britannia (2)	System 34 nm. CABLE: 1 core 400/360 comprised 7 strands copper wire, 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable, 10 No. 13 BWG homogeneous galvanised iron wires wrapped alternately with 10 hemp yarns. Wires wrapped in tape coated with Chattertons Compound. Intermediate cable 15 No. 9 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 20 November, completed 7 December 1889. Engineer in Charge, E. Riddle.
1890	Chorillos, Peru - Iquique - Valparaiso, Chile	India Rubber Gutta Percha & Telegraph Works	Central & South American Telegraph Co	Silvertown	System 1750 nm.
1890	Newbiggin by the Sea, England - Marstrand, Sweden	Telcon	Great Northern Telegraph Co	Seine, John Seymour: Master	System 508 nm. CABLE: 1 core 180/180 consisting of 7 strands copper wire, coated with 3 alternate layers Chattertons Compound and gutta percha wrapped in jute dipped in cutch. Armouring, main cable (1) 17 No. 13 BWG homogeneous galvanised iron wires, main cable (2) 12 No. 6 BWG, intermediate cable 12 No. 8 BWG, shore ends 12 No. 1 BWG, shore end (2) (Newbiggin) 12 No. 8 BWG plus 14 No. 1 BWG all galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 16 November, completed 21 November 1890 [<i>The Electrical Review</i> p.658]. Engineer in Charge, M. Corder.
1890	Mombasa -	Telcon	Eastern &	Recorder (1)	

	Zanzibar: Dar es Salaam - Zanzibar		South African Telegraph Co		
1890	Punta Rassa - Sanibel Island - Key West	Siemens Bros	International Ocean Telegraph Co	Faraday (1) Rhiwderin	In 1927 the Sanibel Island landing was removed. This cable was abandoned in 1942.
1890	La Perouse, Sydney, Australia - Nelson, New Zealand	Telcon	Eastern Extension, Australasia & China Telegraph Co	Scotia	System 1323 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire, coated with 3 alternate layers Chattertons Compound and gutta percha, wrapped in jute dipped in cutch. Armouring, main cable (1) 9 No. 13 BWG wrapped alternately with 9 hemp yarns, main cable (3) 12 No 13 BWG both homogeneous galvanised iron wires, each wire coated with Chattertons Compound and wrapped in 1 layer hessian tape. The following were sheathed in brass tape before the jute serving was applied. Main cable (2) as (3). Intermediate cable 10 No 6 BWG galvanised iron wires. The above sections wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Shore ends (1) 10 No 2 BWG, shore ends (2) 10 No. 00 BWG. These sections wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 26 April, completed 7 May 1890. Engineer in Charge, F.R. Lucas. Sydney end was moved to Bondi Beach in 1917. Nelson end first moved to Wellington in 1917 and then to Muriwai Beach, Auckland in 1932. WFS 1956.
1890	Suez - Perim	Telcon	Eastern Telegraph Co	Scotia - John Pender (1)	System 1331 nm. CABLE: 1 core 200/200 comprising 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha. Main cable (1) wrapped in jute dipped in cutch. Others sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, main cable (1) 14 No. 13 BWG homogeneous galvanised iron wires each coated with 1 layer Chattertons Compound and wrapped in 1 layer tape. Main cable (2) 12 No. 9 BWG, intermediate cable 10 No. 6 BWG all galvanised iron wires. The above wrapped in 2 layers hessian tape wrapped in opposite directions dipped in Chattertons Compound. Shore ends 10 No. 2 BWG as others but wrapped in 2 layers jute. Laying commenced 31 October, completed 14 November 1890. Engineer in Charge, F.R. Lucas.

	Perim - Aden	Telcon	Eastern Telegraph Co	Scotia	System 100 nm. CABLE: 1 core 200/200 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape and wrapped in jute dipped in cutch. Armouring, main cable 10 No. 6 BWG wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Shore ends 10 No. 2 BWG as above but wrapped in jute. Both galvanised iron wires. Laying commenced 15 November, completed 18 November 1890. Engineer in Charge F.R. Lucas.
1890	Halifax, Canada - Bermuda	Henley's Telegraph Works	Halifax & Bermudas Telegraph Co	Westmeath	System 870 nm.
1890	Trinidad - British Guiana: St Vincent - Barbados	Henley's Telegraph Works	West India & Panama Telegraph Co	Westmeath	
1890	Sai - Omorihama, Tsugaru Straits, Japan	?	Japanese Government	Meiji Maru	System 2 cables each of 44.7 km. Cables single conductor with gutta percha insulation. First cables laid entirely by Japanese
1890	Fort de France, Martinique - Paramaribo, Dutch Guiana	La Société Générale des Téléphones	La Societe Française des Télégraphes Sous-Marins	Westmeath	
1890	Perim (Aden) - Sheikh Syed (Turkish Fort)	Telcon	Turkish Government	?	System 8 nm
1890	Madras, India - Penang, Malaya	Telcon	Eastern Extension, Australasia & China Telegraph Co	Seine, John Seymour: Master	System 567 nm. Part renewal of 1870 cable. CABLE: 1 core 200/180 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha. Intermediate cable (1) and (2) plus shore end sheathed in brass tape then wrapped in jute dipped in cutch. Main cable wrapped in jute dipped in cutch. Armouring, main cable 12 No. 13 BWG homogeneous galvanised iron wires each wire coated with Chattertons Compound and wrapped in tape. Intermediate cable (1) 12 No. 9 BWG, intermediate cable (2) 10 No. 6 BWG. All the above sections wrapped in 2 layers hessian tape

					wound in opposite directions dipped in Chattertons Compound. Shore end (Penang) 10 No, 2 BWG, as above but wrapped in 2 layers jute. Laying commenced 4 May, completed 20 May 1890. Engineer in Charge, E. Riddle.
1890	Valentia - Greetsiel (REPAIR) 2 repairs carried out, 1 off Valentia, 1 off St. Catherines.	Telcon	German Union Telegraph Co.	Britannia (2)	System 3.50 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires, cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 4 February, completed 27 February 1890. Engineer in Charge, J.S. Sherwin.
1890	Cook Straits, New Zealand (REPAIR)	Telcon	NZ PTT	Scotia	Repair was effected using recovered cable. Laying commenced 13 May, completed 21 May 1890
1891	Paramaribo, Dutch Guiana - Cayenne, French Guiana - Vizen, Brazil	La Société Générale des Téléphones	La Societe Française des Télégraphes Sous-Marins	Westmeath	System 278 + 556 nm
1891	Mole St Nicholas - Port au Prince, Haiti	La Société Générale des Téléphones	La Societe Française des Télégraphes Sous-Marins	Westmeath	System 112 nm
1891	Puerto Plata, Dominican Republic - Fort de France, Martinique	La Société Générale des Téléphones	La Societe Française des Télégraphes Sous-Marins	Westmeath	System 403 nm
1891	Guadeloupe - The Saints	La Société Générale des Téléphones	La Societe Française des Télégraphes Sous-Marins	Westmeath	System 23 nm
1891	Cienfuegos - Batabano	Hoopers	Cuba Submarine Telegraph Co	Rocklands	
1891	Anglo-German: Bacton - Emden	Siemens Bros	GPO	Faraday (1)	

	1				
1891	Aden - Bombay No. 3	Telcon	Eastern Telegraph Co	Scotia - Calabria	System 1850 nm. 1 core 400/300 consisting of 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha. Main cable wrapped in jute dipped in cutch. Other sections sheathed with brass tape then wrapped in jute dipped in cutch. Armouring, main cable (1) 17 No. 14 BWG, main cable (2) 15 No. 13 BWG, both homogeneous galvanised iron wires, each wire coated with 1 layer Chattertons Compound and 1 of tape. Intermediate cable (1) 12 No. 6 BWG, these sections wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following are galvanised iron wires. Intermediate cable (2) 10 No. 2 BWG, shore end (1) (Bombay) 10 No. 00 BWG, these wrapped in 2 layers jute dipped in Chattertons Compound. Shore end (2) (Bombay) 12 No. 6 BWG plus 12 strands of 3 No. 6 BWG. Laying commenced 29 March, completed 19 April 1891. Engineer in Charge, F.R. Lucas.
1891	Fano, Denmark - Oye, France No. 2	Telcon	Great Northern Telegraph Co	Scotia - Genesta (Barge) - Dorunda (Tug)	System 370 nm. CABLE: 1 core 300/250 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 12 No. 3 BWG, shore end (1) (Oye) 12 No. 3 BWG, shore end (2) (Oye) 12 No. 1 BWG all galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 12 July 1891, completed 29 July 1891. Engineer in Charge F.R. Lucas.
1891	Penang - Medan	Telcon	Eastern Extension, Australasia & China Telegraph Co	Recorder (1)	
1891	Pernambuco - Bahia - Rio de Janeiro - Santos	India Rubber Gutta Percha & Telegraph Works	Western & Brazilian Telegraph Co	Silvertown	
1891	Pernambuco - Ceara	India Rubber Gutta Percha & Telegraph Works	Western & Brazilian Telegraph Co	Silvertown	Renewal of the 1873 cable

1891	Mexico - Guatemala	India Rubber Gutta Percha & Telegraph Works	Central & South American Telegraph Co	Relay	
1891	St Margarets Bay, England - Sangatte, France No 2	Siemens Bros	GPO	Monarch (2)	First telephone cable across the Channel
1891	Oropos - Eretria	Telcon	Greek Government - Eastern Telegraph Co	Amber	
1891	Yobuko, Honshu - Izuhara, Tsushima	?	Japanese Government		Purchased from the Great Northern Telegraph Company for £85,000
1891	Sahara - Muroran, Japan	?	Japanese Government	?	System 33.1 km. Single conductor insulated with gutta percha
1891	Teradomari - Maura, Essa Straits, Japan	?	Japanese Government	?	System 55.1 km. Single conductor insulated with gutta percha
1891	Carcavelos - Madeira (REPAIR) (73) No.1. Repair near Lisbon	Telcon	Brazilian Submarine Telegraph Co	Britannia (2)	System 1.5 + 0.5 nm. CABLE: (1) 1 core 120/175 comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, shore end 9 No. 13 BWG wrapped alternately with 9 yarns, plus 12 strands of 3 No. 6 BWG. CABLE (2) 1 core 255/340 then as above. Armouring, shore end 10 No. 13 BWG, each wire wrapped with 5 yarns, plus 12 strands of 3 No. 6 BWG, all homogeneous galvanised iron wires. Laying commenced 2 January, completed 7 January 1891. Engineer in Charge, E. Riddle.
1891	Carcavelos - Madeira (REPAIR) (73) No.1. Repair near Funchal.	Telcon	Brazilian Submarine Telegraph Co	Scotia	System 21 + 4 nm. CABLE: (1) 1 core 120/175 comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 9 No. 13 BWG homogeneous galvanised iron wires, wrapped alternately with 9 yarns, each wire coated with 1 layer Chattertons Compound and 1 layer of tape. CABLE: (2) 1 core 130/130 then as above. Armouring, 10

					No. 6 BWG galvanised iron wires. Both cables wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 26 January, completed 31 January 1891. Engineer in Charge, J.S. Sherwin.
1891	Ballinskellig - Halifax (REPAIR)	Telcon	Direct United States Cable Co.	Britannia (2)	System 2 nm. CABLE: 1 core 400/360 comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha, then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG wrapped alternately with 10 yarns. Each homogeneous wire was coated with 1 layer Chattertons Compound and 1 layer of tape. Finally wrapped in 2 layers hessian tape wound in opposite directions, dipped in Chattertons Compound. Laying commenced 13 October, completed 14 October 1891. Engineer in Charge, J.S. Sherwin.
1892	Nassau, Bahamas - Jupiter, Florida	Henley's Telegraph Works	Colonial Government	Westmeath	Completed February 4th, 1892
1892	Aber Geirch, Wales - Newcastle, Ireland No 2	?	GPO	?	
1892	Santos - Chuy	Telcon	Western & Brazilian Telegraph Co	Scotia	System 740 nm. 1 core 130/130 comprising 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 12 No. 8 BWG, shore end (Santos) 12 No. 8 BWG plus 14 No. 2 BWG all galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 29 April, completed 7 June 1892. Engineer in Charge, E. Riddle. Florianópolis and Rio Grande were linked into this cable in 1924 by Cable Enterprise (1)
1892	Chuy - Maldonado - Montevideo	Telcon	Western & Brazilian Telegraph Co	Scotia	The Chuy Cable House was shut down in the 50's and the cables joined straight from Maldonado to Rio Grande
1892	Marseilles - Oran	La Société Générale des Téléphones	French PTT	François Arago	System 638 nm.

1892	Marseille, France - Bizerte, Tunisia	Monsieur A. Grammont	French PTT	Calabria	System 553 nm.
1892	Medan, Sumatra - Acheen, Malaya	Telcon	Dutch East Indies Government	Seine	System 289 nm. CABLE: 1 core 107/140 consisting of 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha, then sheathed with brass tape and wrapped in jute dipped in cutch. Armouring, main cable (1) 10 No. 6 BWG, main cable (2) 12 No. 9 BWG, galvanised iron wires. These wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Shore ends 10 No. 00 BWG galvanised iron wires. This wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 9 June, completed 15 June 1892. Engineer in Charge, J.S. Sherwin.
1892	Dakar, Senegal - Fernando de Noronha - Pernambuco, Brazil	India Rubber Gutta Percha & Telegraph Works	La Compagnie des Câbles Sud-Américans	Silvertown	System 1620 + 347 nm.
1892	Kure - Edajima, Japan	?	Japanese Government	?	System 2.3 km. Single conductor insulated with gutta percha
1892	Greetsiel - Valentia (REPAIR)	Telcon	German Union Telegraph Co.	Britannia (2)	System 2.24 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced and completed 12 February 1892. Engineer in Charge, M. Corder.
1892	Greetsiel - Valentia (REPAIR) Portland	Telcon	German Union Telegraph Co.	Britannia (2)	System 0.76 + 4.65 nm. CABLE: (1) 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. CABLE: (2) As (1) but wrapped in 2 layers hessian tape. Laying commenced and completed 24 February 1892. Engineer in Charge, M. Corder.

1892	Greetsiel - Valentia (REPAIR) St. Albans	Telcon	German Union Telegraph Co.	Britannia (2)	System 1.6 nm. CABLE: (1) 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 10 No. 6 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 25 February, completed 26 February 1892. Engineer in Charge, M. Corder.
1892	Greetsiel - Valentia (REPAIR) St. Katherines	Telcon	German Union Telegraph Co.	Britannia (2)	System 4 + 2 nm. CABLE: (1) 1 core 130/130 comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 10 No. 6 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. CABLE: (2) As (1) except the following, Armouring 10 No. 2 BWG, cable wrapped in 2 layers jute. Laying commenced and completed 12 March 1892. Engineer in Charge, M. Corder.
1892	Greetsiel - Valentia (REPAIR) W Hiinder	Telcon	German Union Telegraph Co.	Britannia (2)	System 2.3 nm. CABLE: (1) 1 core 130/130 comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 3 April, completed 4 April 1892. Engineer in Charge, M. Corder.
1892	Halifax - Rye Beach (REPAIR) Rye Beach	Telcon	Direct United States Cable Co.	Britannia (2)	System 1.5 + 0.15 nm. CABLE: (1) 1 core 107/150 comprising 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 11 No. 9 BWG plus 12 strands of 3 No. 4 BWG galvanised iron wires. CABLE: (2) As (1) except Armouring 10 No. 7 BWG, cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 1 May, completed 2 May 1892. Engineer in Charge, M. Corder.
1892	Halifax - Rye Beach (REPAIR) Browns Bank	Siemens Bros	Direct United States Cable Co.	Britannia (2)	System 7 + 1.6 nm. CABLE: (1) 1 core 107/150 comprising 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and

					gutta percha then wrapped in jute dipped in cutch. Armouring, 12 No. 4 BWG galvanised iron wires. CABLE: (2) As (1) except armouring 10 No. 7 BWG. Both wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 8 May, completed 15 May 1892. Engineer in Charge, M. Corder.
1892	Halifax - Rye Beach (REPAIR) Green Bank	Siemens Bros	Direct United States Cable Co.	Britannia (2)	System 10 + 9 nm. CABLE: (1) 1 core 400/360 comprising 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 18 No. 11 BWG galvanised iron wires. CABLE: (2) As (1) except, armouring 15 No. 9 BWG. Both wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 21 May, completed 1 June 1892. Engineer in Charge M. Corder.
1892	Brest St. Pierre (REPAIR) Green Bank	Telcon	Anglo American Telegraph Co	Britannia (2)	System 0.130 nm. CABLE: (1) 1 core 400/360 comprising 7 strands 6 wrapped around 7th, copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 13 BWG homogeneous galvanised iron wires wrapped alternately with 10 yarns. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced and completed 31 May 1892. Engineer in Charge, M. Corder. Cable was damaged during the above repair.
1892	Maldonado - Chuy (REPAIR) Maldonado	Telcon	Brazilian Submarine Telegraph Co	Scotia	System 19.4 + 2 nm. CABLE: (1) 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 12 No. 8 BWG plus 14 No. 2 BWG galvanised iron wires. CABLE: (2) As (1) except, armouring 12 No. 8 BWG. Both wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 19 May, completed 26 May 1892. Engineer in Charge, E. Riddle.
1892	Pernambuco - Bahia (REPAIR)	Telcon	Brazilian Submarine Telegraph Co	Scotia	System 3.6 nm. CABLE: (1) 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 12 No. 8 BWG galvanised iron wires. Cable wrapped in 2

					layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 15 June, completed 17 June 1892. Engineer in Charge, E. Riddle.
1892	Pernambuco - Bahia (REPAIR)	Telcon	Brazilian Submarine Telegraph Co		System 3.6 nm. CABLE: (1) 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 12 No. 8 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 19 June, completed 21 June 1892. Engineer in Charge, E. Riddle.
1892	Brest St. Pierre (REPAIR)	Telcon	Direct United States Cable Co.	Britannia (2)	System 18 nm. CABLE: 1 core 400/400 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 18 No. 14 BWG homogeneous galvanised iron wires each coated with 1 layer Chattertons Compound and wrapped in tape. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 25 July, completed 5 August 1892. Engineer in Charge, M. Corder.
1892	Ballinskellig - Halifax (REPAIR)	Siemens Bros	Direct United States Cable Co.	Britannia (2)	System 3 + 0.5 nm. CABLE: (1) 1 core 400/360 comprising 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 15 No. 9 BWG galvanised iron wires. CABLE: (2) As (1) except, armouring 18 No. 11BWG. Both wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 12 September, completed 14 September 1892. Engineer in Charge, J.S. Sherwin.
1893	Mon Repos, Queensland, Australia - Téoudié, New Caledonia	La Société Générale des Téléphones	La Societe Française des Télégraphes Sous-Marins	François Arago	System 793 nm. Abandoned 1898
1893	Port Kale (Kail), Scotland - Donaghadee, Ireland No 2	Siemens Brothers	GPO	Monarch (2)	First telephone cable to Ireland
1893	Carcevalos,	Telcon	Europe &	Seine	System 873 nm. CABLE: 1 core 130/130 comprised 7

	Portugal - São Miguel, Azores		Azores Telegraph Co		strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 14 No. 14 BWG homogeneous galvanised iron wires each wire coated with 1 layer Chattertons Compound then 1 layer of tape. Section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass tape before being wrapped in jute. Armouring, all galvanised iron wires. Intermediate cable 10 No. 6 BWG wrapped as main cable. Shore end (1) (Carcavelos) 10 No. 2 BWG, shore ends (2) 10 No. 6 plus 14 No. 1 BWG. These sections wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 12 August, completed 19 August 1893. Engineer in Charge, F.R. Lucas.
1893	São Miguel - Faial, Azores	Telcon	Europe & Azores Telegraph Co	Seine	System 4.6 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape, and wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, main cable 10 No.2 BWG, shore ends 10 No. 6 BWG plus 14 No. 1 BWG. Cable wrapped in 2 layers jute dipped Chattertons Compound. Laying commenced 24 August, completed 25 August 1893. Engineer in Charge, F.R. Lucas.
1893	Faial - Pico, Azores	Telcon	Europe & Azores Telegraph Co	Seine	System 17 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha. Main cable wrapped in jute dipped in cutch. Armouring, main cable 14 No. 14 BWG homogeneous galvanised iron wires, each wire coated with 1 layer Chattertons Compound and wrapped in 1 layer of tape. The following sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, intermediate cable 10 No. 6 BWG, these two sections wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Shore ends (1) 10 No. 2 BWG, shore ends (2) 10 No. 6 plus 14 No. 1 BWG. both wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 29 August, completed 30 August 1893. Engineer in Charge, F.R. Lucas.
1893	Pico - São Jorge,	Telcon	Europe &	Seine	System 17 nm. CABLE: 1 core 130/130 comprised 7

	Azores		Azores Telegraph Co		strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 14 No. 14 BWG homogeneous galvanised iron wires each wire coated with 1 layer Chattertons Compound then 1 layer of tape. Section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass tape before being wrapped in jute. Armouring, all galvanised iron wires. Intermediate cable 10 No. 6 BWG wrapped as main cable. Shore ends (1) 10 No. 2 BWG, shore ends (2) 10 No. 6 plus 14 No. 1 BWG. These sections wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 29 August, completed 30 August 1893. Engineer in Charge, F.R. Lucas.
1893	Pico - Terceira, Azores	Telcon	Europe & Azores Telegraph Co	Seine	System 57 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 14 No. 14 BWG homogeneous galvanised iron wires each wire coated with 1 layer Chattertons Compound then 1 layer of tape. Section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass tape before being wrapped in jute. Armouring, all galvanised iron wires. Intermediate cable 10 No. 6 BWG wrapped as main cable. Shore end (1) (Terceira) 10 No. 2 BWG, shore ends (2) 10 No. 6 plus 14 No. 1 BWG. These sections wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 1 September, completed 2 September 1893. Engineer in Charge, F.R. Lucas.
1893	São Jorge - Graciosa, Azores	Telcon	Europe & Azores Telegraph Co	Seine	System 57 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 14 No. 14 BWG homogeneous galvanised iron wires each wire coated with 1 layer Chattertons Compound then 1 layer of tape. Section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass tape before being wrapped in jute. Armouring, all galvanised iron wires.

					Intermediate cable 10 No. 6 BWG wrapped as main cable, shore ends 10 No. 6 plus 14 No. 1 BWG. These sections wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced and completed 4 September 1893. Engineer in Charge, F.R. Lucas.
1893	Bonny, Nigeria - Calabar - Duala, Cameroons	Telcon	African Direct Telegraph Co	Britannia (2)	System 180 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha, shore ends only sheathed in brass tape, all wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, main cable 10 No. 6 BWG, this section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Intermediate cable 10 No. 2 BWG, shore ends 10 No 6. BWG plus 14 No. 2 BWG, both wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 13 February, completed 18 February 1893. Engineer in Charge, M. Corder.
1893	Zanzibar - Mombasa, Kenya	Telcon	Eastern & South African Telegraph Co	Scotia	
1893	Zanzibar - Seychelles:	Telcon	Eastern & South African Telegraph Co	Scotia - Britannia (2)	System 1120 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 14 No. 14 BWG homogeneous galvanised iron wires each wire coated with 1 layer Chattertons Compound then 1 layer of tape. Section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass tape before being wrapped in jute. Armouring, all galvanised iron wires. Intermediate cable 10 No. 6 BWG wrapped as main cable, shore ends 10 No. 2 BWG, wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 1 November, completed 11 November 1893. Engineer in Charge, F.R. Lucas.
1893	Seychelles - Mauritius	Telcon	Eastern & South African Telegraph Co	Scotia - Britannia (2)	System 1065 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 14 No. 14 BWG homogeneous galvanised iron wires each wire

					coated with 1 layer Chattertons Compound then 1 layer of tape. Section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass tape before being wrapped in jute. Armouring, all galvanised iron wires. Intermediate cable 10 No. 6 BWG wrapped as main cable. Shore end (1) (Seychelles) 10 No. 2 BWG, shore end (2) (Mauritius) 10 No. 6 plus 14 No. 1 BWG. These sections wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 1 November, completed 11 November 1893. Engineer in Charge, F.R. Lucas.
1893	Valparaiso - Concepcion, Chile	?	West Coast of America Telegraph Co	?	
1893	Tehuantepec, Mexico - San Juan del Sur, Nicaragua - Santa Elena - Ecuador - Chorillos, Peru	India Rubber Gutta Percha & Telegraph Works	Central & South American Telegraph Co	Silvertown	
1893	Hirahata - Gōtsu, Japan	?	Japanese Government	?	System 96.7 km. Single conductor insulated with gutta percha
1893	Greetsiel - Valentia (REPAIR) off Valentia	Telcon	German Union Telegraph Co.	Seine	System 1.22 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape and wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires, wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced and completed 24 February 1893. Engineer in Charge, J.S. Sherwin.
1893	Greetsiel - Valentia (REPAIR) off Isle of Wight	Telcon	German Union Telegraph Co.	Seine	System 3.40 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape and wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires, wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced and completed 24 February 1893. Engineer in Charge, J.S. Sherwin.
1894	MAIN - 3: Dover	Siemens Bros.	Commercial	Faraday (1)	System 2161 nm. In 1926 this cable and the 1905 cable

	Bay, Nova Scotia - Waterville, Ireland - Weston super Mare, England - Le Havre, France		Cable Co		were diverted into Quidi Vidi Harbour by CS John W. Mackay
1894	Valentia, Ireland - Heart's Content, Newfoundland	Telcon	Anglo American Telegraph Co	Scotia - Britannia (2)	System 1848 nm. CABLE: 1 core 650/400 comprised 1 solid copper conductor 0.122" wrapped with 12 strands 0.041" copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 18 No. 14 BWG homogeneous galvanised iron wires each wire coated with 1 layer Chattertons Compound and 1 layer of tape. The following all galvanised iron wires. Intermediate cable 12 No. 6 BWG both of these wrapped in 2 layers hessian tape dipped in Chattertons Compound. Shore end (1) (Valentia) 10 No. 2 BG, shore ends (2) 12 No. 6 BWG plus 14 No. 1 BWG. Shore end (3) (Valentia) 10 No. 2 BWG plus 6 No. 1 BWG. All wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 26 May, completed 27 July 1894. Engineer in Charge, F.R. Lucas.
1894	Singapore - Labuan, Sabah, Malaysia	Telcon	Eastern Extension, Australasia China Telegraph Co	Scotia	System 718 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape and wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, main cable 12 No. 8 BWG. Section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Shore end (1) (Labuan) 10 No. 2 BWG, shore ends (2) 10 No. 00 BWG. These sections wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 3 April, completed 12 April 1894. Engineer in Charge, E. Riddle.
1894	Labuan - Menumbok, Sabah, Malaysia	Telcon	Eastern Extension, Australasia China Telegraph Co	Scotia	System 12 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape and wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, main cable 12 No. 8 BWG. Section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound.

					Laying commenced and completed 14 April 1894. Engineer in Charge, E. Riddle.
1894	Labuan - Hong Kong	Telcon	Eastern Extension, Australasia China Telegraph Co	Scotia - Seine	System 1482 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 14 No. 14 BWG homogeneous galvanised iron wires each wire coated with 1 layer Chattertons Compound then 1 layer of tape. Section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following sheathed in brass tape and then wrapped in jute dipped in cutch. Armouring, intermediate cable 12 No. 8 BWG wrapped as above. Shore ends (1) 10 No. 2 BWG, shore ends (2) 10 No. 00, both wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 15 April, completed 4 May 1894. Engineer in Charge, E. Riddle.
1894	Piraeus - Syra No 2	Telcon	Eastern Telegraph Co	Amber	
1894	Oyanojima - Amakusa Tsuchijima, Amakusa Islands, Japan	?	Japanese Government	?	System 3½ km. Single conductor wiith gutta percha insulation
1894	Pola - Zara	Telcon	?	Electra (1)	System 80 nm. CABLE: 1 core 84/135 consisting of 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, main cable 12 No. 9 BWG. Section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound, shore ends 10 No. 2 BWG wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 8 December 1894, completed 13 December 1894.
1894	Greetsiel - Valentia (REPAIR) off Dover	Telcon	German Union Telegraph Co.	Britannia (2)	System 5.0 nm. 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying

					commenced 4 February, completed 14 February 1894. Engineer in Charge, M. Corder.
1894	Greetsiel - Valentia (REPAIR) off Isle of Wight	Telcon	German Union Telegraph Co.	Britannia (2)	System 4.1 nm. 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then sheathed in brass tape and wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 15 February, completed 16 February 1894. Engineer in Charge, M. Corder.
1894	Hoyer - Arendal (REPAIR) off Jutland	Telcon	German-Norwegian Telegraph Co.	Britannia (2)	System 1.27 nm. 3 core 100/125 each comprising 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 12 No. 5 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 22 February, completed 16 March 1894. M. Corder, Engineer in Charge
1894	Salcombe - Brignogan (REPAIR) off Brignogan	Telcon	GPO	Britannia (2)	System 4 + 0.7 nm. CABLE: (1) 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute. Armouring 10 No. 00 BWG galvanised iron wires. CABLE: (2) 1 core 107/140 consisting of 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute. Armouring, 15 No. 13 BWG plus 10 No. 1 BWG homogeneous galvanised iron wires. Both cables wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 4 August, completed 7 August 1894. Engineer in Charge, F. Petley.
1895	Madagascar - Mozambique	La Société Générale des Téléphones - Monsieur Grammont	French PTT	François Arago	System 371 nm.
1895	Cienfuegos - Batabano	Hoopers Telegraph Works	Cuba Submarine Telegraph Co	Rocklands	
1895	Cienfuegos - Casilda	India Rubber Gutta Percha	Cuba Submarine	Silvertown	

		& Telegraph Works	Telegraph Co		
1895	Tunas - Casilda	India Rubber Gutta Percha & Telegraph Works	Cuba Submarine Telegraph Co	Silvertown - Buccaneer	
1895	Tunas - Jucaro - Cape Cruz - Manzanillo	India Rubber Gutta Percha & Telegraph Works	Cuba Submarine Telegraph Co	Silvertown - Buccaneer	
1895	Galveston - Coatzacoalcos	Siemens Bros	Mexican Telegraph Co	Faraday (1)	
1895	Amazon River Cable: Para (Belem) - Manaus (Manaus), Brazil	Siemens Bros	Amazon Telegraph Co	Faraday (1)	System 1600 nm
1895	Hatsuyama Iki - Nora Tsushima, Japan	?	Japanese Government	?	System 2.3 km. Single conductor insulated with gutta percha
1895	Shirahama Nagasaki - Toraku Gōtsu, Japan	?	Japanese Government	?	System 2.3 km. Single conductor insulated with gutta percha
1895	Obock - Bay Tadjourah, Djibouti	Telcon	French Government	?	Total cost of scheme including cable manufacture, shipping and installation, construction of cable huts, 180,000 French Francs
1895	Greetsiel - Valentia (REPAIR) Valentia	Telcon	German Union Telegraph Co.	Britannia (2)	System 4.0 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 9 January, completed 18 January 1895. Engineer in Charge, M. Corder.
1895	Salcombe - Brignogan	Telcon	GPO	Britannia (2)	System 2.8 nm. CABLE: 1 core 107/140 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha

	(REPAIR) Mid Channel				then wrapped in jute dipped in cutch. Armouring, 15 No. 13 BWG plus 10 No. 1 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 14 March, completed 16 March 1895. Engineer in Charge, F. Petley
1895	Salcombe - Brignogan (REPAIR) off Brignogan	Telcon	GPO	Britannia (2)	System 0.6 + 0.95 nm. CABLE: (1) 1 core 107/140 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires. 15 No. 13 BWG plus 10 No. BWG. CABLE: (2) 1 core 130/130 then as above. Armouring, 10 No 1 BWG. Both sections wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 17 March, completed 19 March 1895. Engineer in Charge, F. Petley
1895	Salcombe - Brignogan (REPAIR) Mid Channel	Telcon	GPO	Britannia (2)	System 0.13 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No 1 BWG galvanised iron wires. Wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 30 March, completed 1 April 1895. Engineer in Charge, F. Petley
1895	Hoyer - Arendal (REPAIR)		German-Norwegian Telegraph Co.	Britannia (2)	System 1 nm. CABLE: 3 core 100/125 each comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 12 No. 5 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 13 August, completed 14 August 1895. Engineer in Charge, J.S. Sherwin.
1895	Hoyer - Arendal (REPAIR) off Sylt	Telcon	German-Norwegian Telegraph Co.	Britannia (2)	System 5.7 nm. CABLE: 3 core 100/125 each comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 12 No. 5 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 21

					December, completed 29 December 1895. Engineer in Charge, M. Corder.
1896	Bacton - Emden 2	India Rubber Gutta Percha & Telegraph Works	GPO	Silvertown	
1896	Greetsiel - Borkum - Vigo	Telcon	German Submarine Telegraph Co	Scotia - Calabria - Britannia (2)	System 1112 nm. Borkum - Vigo section only. CABLE: (1) 1 core consisting of 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, main cable 15 No. 14 (1) BWG each wire coated with 1 layer Chattertons Compound then wrapped in tape. Section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass tape before the jute wrapping was applied. Main cable (2) 10 No. 6 BWG, shore ends (1) 10 No. 2 BWG, shore ends (2) 10 No. 6 BWG plus 14 No. 1 BWG. All wrapped in 2 layers jute, then as above. System 0.36 nm. CABLE: (2) 0.36 nm. Shore end (3) (Borkum). Purchased from the German Government. 1 core 130/130 comprised 7 strands copper wire coated and wrapped as main cable (1). Armouring, 12 No. 9 BWG. Laying commenced 19 September, completed 22 December 1896. Engineer in Charge, F.R. Lucas. Diverted into Dumpton Gap in 1924 by Nordeney and George Ward.
1896	New York - Coney Island	La Société Générale des Téléphones	Commercial Cable Company	Seine - François Arago	
1896	Coney Island, USA - Cap Haitien, Haiti	La Société Générale des Téléphones	US-Haiti Telegraph Company	Seine - François Arago	System 1400 nm. The cable ships were chartered by La Société. Opened for service 3rd December 1896
1896	Willemstad, Curacao - Coro, Venezuela - Maracaibo, Venezuela	La Société Générale des Téléphones	La Compagnie Française des Câbles Télégraphiques	Pouyer Quartier	System 59 + 226 nm. delete
1896	Kagoshima Ohama - Amami Island - Okinawa	?	Japanese Government	Okinawa Maru	System 758 km. Single conductor with gutta percha insulation

1896	Tamai - Misaki, Japan	?	Japanese Government	Okinawa Maru	System 39.4 km. 2 conductors insulated with gutta percha
1896	Jigozen - Iwaojima Island, Japan	?	Japanese Government	Okinawa Maru	System 2.4 km. Single conductor with gutta percha insulation
1896	Greetsiel - Valentia (REPAIR) off Isle of Wight	Telcon	German Union Telegraph Co.	Britannia (2)	System 8.2 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 27 January, completed 31 January 1896. Engineer in Charge, M. Corder.
1896	Greetsiel - Valentia (REPAIR) off Owers	Telcon	German Union Telegraph Co.	Britannia (2)	System 1.7 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 31 January, completed 2 February 1896. Engineer in Charge, M. Corder.
1896	Greetsiel - Valentia (REPAIR) off Start	Telcon	German Union Telegraph Co.	Britannia (2)	System 4.6 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 6 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 13 February, completed 21 February 1896. Engineer in Charge, M. Corder.
1896	Greetsiel - Valentia (REPAIR) Ruttingen Lightship	Telcon	German Union Telegraph Co.	Britannia (2)	System 1.7 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 3 April, completed 4 April 1896. Engineer in Charge, M. Corder.
1896	Brest - St Pierre (REPAIR) off	Siemens Bros	Anglo American	Seine	System 12.6 nm. CABLE: 1 core 350/300 consisting of 7 strands copper wire coated with 3 alternate layers

	Brest		Telegraph Co		Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 18 No. 13 BWG homogeneous galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 1 May, completed 5 May 1896. Engineer in Charge, M. Corder.
1896	Brest - Penzance (REPAIR) near Flemish Cap	Telcon	Anglo American Telegraph Co	Seine	System 59.6 nm. CABLE: 1 core 350/300 consisting of 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 18 No. 13 BWG homogeneous galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 12 May, completed 22 May 1896. Engineer in Charge, M. Corder.
1896	Brest - Penzance (REPAIR) off Penzance	Telcon	Anglo American Telegraph Co	Britannia (2)	System 2.1 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 6 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 5 July, completed 6 July 1896. Engineer in Charge, M. Corder.
1896	Brest - Penzance (REPAIR) Mid Channel	Telcon	Anglo American Telegraph Co	Britannia (2)	System 7 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 6 BWG galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 6 July, completed 10 July 1896. Engineer in Charge, M. Corder.
1896	Brest - Penzance (REPAIR) Mid Channel	Siemens Bros	Anglo American Telegraph Co	Britannia (2)	System 3.3 nm. 1 core 70/75 comprised 7 strands copper wire 6 wrapped around 7th. Armouring, 10 No. 9 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 11 July, completed 21 July 1896. Engineer in Charge, M. Corder.
1896	Brest - Penzance (REPAIR) Mid Channel	Telcon	Anglo American Telegraph Co	Britannia (2)	System 7 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 6 BWG

					galvanised iron wires. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Laying commenced 22 July, completed 26 July 1896. Engineer in Charge, M. Corder.
1896	Greetsiel - Valentia (REPAIR) Off the Start	Telcon	German Union Telegraph Co.	Britannia (2)	System 9 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 30 November, completed 16 December 1896. Engineer in Charge, M. Corder.
1897	Perim - Asab - Massaua (Massawa), Eritrea	Telcon	Italian Government	?	
1897	Knock Bay - Whitehead 2	?	GPO	?	
1897	St Margarets Bay, England - Sangatte, France No 3	Siemens Bros	GPO	Monarch (2)	
1897	Abbotscliffe, England - Cap Gris Nez, France No 2	?	GPO	?	
1897	Vigo, Spain - Gibraltar	Hoopers Telegraph Works	Eastern Telegraph Co	Great Northern - Mirror (1) - Chiltern	
1897	Madras - Penang	Telcon	Eastern Extension, Australasia & China Telegraph Co	Sherard Osborn	
1897	Penang - Malacca - Singapore	Telcon	Eastern Extension, Australasia &	Sherard Osborn	Laying commenced 10 April 1897

			China Telegraph Co		
1897	Bali - Lombok: Oleleh - Sabang	Telcon	Dutch East Indies Government	Seine	System 92 + 26 nm.
1897	Manila - Capiz: Taburam - Escalante: Bacolod - Iloilo	Telcon	Eastern Extension, Australasia China Telegraph Co	Sherard Osborn	
1897	Manzanillo - Cape Cruz - Santiago	Hoopers Telegraph Works	Cuba Submarine Telegraph Co	Grandholm	
1897	Willemstad, Curacao - La Guaira, Venezuela	La Société Générale des Téléphones	La Compagnie Francaise des Cables Telegraphiques	Pouyer Quartier	System 161 nm
1897	La Guaira - Puerto Cabello: Willemstad - La Vela de Coro - Maracaibo, Venezuela	La Société Générale des Téléphones	La Compagnie Francaise des Cables Telegraphiques	Pouyer Quartier	System 77 + 59 + 226 nm. La Vela de Coro - Maracaibo cable abandoned 1915.
1897	Brest, France - Cape Cod, USA	La Société Générale des Téléphones	La Compagnie Française des Câbles Télégraphiques	François Arago	System 3173 nm.
1897	Okinawa - Ishigakijima, Japan - Danshuei, Taiwan	?	?	Okinawa Maru	System 850.1 km. Single conductor with gutta percha insulation
1897	Teshaku Tottori - Futoi - Shiohama, Japan	?	?	Okinawa Maru	System 91.6 km. Single conductor with gutta percha insulation.
1897	Greetsiel - Valentia	Telcon	German Union Telegraph Co.	Britannia (2)	System 0.523 nm. 1 core130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha

	(REPAIR) off Valentia				then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 7 March , completed 8 March 1897. Engineer in Charge, M. Corder.
1897	Salcombe - Brignogan (REPAIR) off Brignogan	Telcon	GPO	Britannia (2)	System 2.658 nm. 1 core 130/130 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 12 March , completed 14 March 1897. Engineer in Charge, M. Corder.
1897	Brest - St. Pierre (REPAIR) off Flemish Cap and on the Bank	Telcon	Anglo American Telegraph Co	Seine	System 201 nm. 1 core 350/300 comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 18 No. 13 homogeneous galvanised iron wires, intermediate cable 12 No. 6 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 12 June, completed 28 October 1897. Engineer in Charge, M. Corder.
1897	Greetsiel - Valentia (REPAIR) off Dover	Telcon	German Union Telegraph Co.	Seine	System 9.30 nm. 1 core 130/130 comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 1 December, completed 10 December 1897. Engineer in Charge, M. Corder.
1898	Cape Cod - New York	La Société Générale des Téléphones	La Compagnie Française des Câbles Télégraphiques	François Arago	System 324 nm.
1898	Jamaica - Turks Island	Telcon	Direct West India Telegraph Co	Scotia	System 825 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 16 No. 13 BWG homogeneous galvanised iron wires. This section wrapped in 2 layers hessian tape wound in opposite

					directions dipped in Chattertons Compound. The following sections were sheathed in brass tape before the jute was applied. Armouring, all galvanised iron wires. Intermediate cable, 10 No. 6 BWG, shore ends (1) 10 No. 2 BWG, shore end (2)(Hamilton) 10 No. 6 BWG plus 14 No 1 BWG, shore end (3)(Hamilton) 10 No. 6 BWG plus 14 No. 1 BWG then covered with 6 No 00 BWG spirally wound. These sections wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 4 January, completed 13 January 1898. Engineer in Charge, F.R. Lucas.
1898	Turks Island - Bermuda	Telcon	Direct West India Telegraph Co	Scotia	System 453 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 16 No. 13 BWG homogeneous galvanised iron wires. This section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following sections were sheathed in brass tape before the jute was applied. Armouring, all galvanised iron wires. Intermediate cable 10 No. BWG, shore end (1) (Turks Island) 10 No. 2 BWG, shore end (2)(Jamaica) 10 No. 6 BWG plus 14 No. 1 BWG. These sections wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 14 January, completed 18 January 1898. Engineer in Charge, F.R. Lucas.
1898	St. Croix - St Lucia - Grenada - Trinidad	Siemens Bros	West India & Panama Telegraph Co	Faraday (1)	System 345 + 165 + 129 nm
1898	Porthcurno, England - Gibraltar	Telcon	Eastern Telegraph Co	Scotia	System 1118 nm. CABLE: 1 core 200/180 consisting of 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 15 No. 14 BWG galvanised steel wires each coated with Chattertons Compound and wrapped in 1 layer of tape. Cable then wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass tape before the jute serving was applied. Armouring, all galvanised iron wires. Intermediate cable 12 No. 9 BWG, shore ends (1) 10 No. 2 BWG, shore end (2)(Porthcurno) 10 No. 6 BWG plus 14

					No. 1 BWG. These wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 15 August, completed 23 August 1898. Engineer in Charge, F.R. Lucas.
1898	Sahara - Muroran, Japan No 2	?	Japanese Government	?	System 33.4 km. Single conductor with gutta percha insulation
1898	Greetsiel - Valentia (REPAIR) In St. George's Channel	Telcon	German Union Telegraph Co.	Britannia (2)	System 7.83 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha wrapped in jute dipped in cutch. Armouring, 10 No. 6 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 7 January, completed 12 January 1898. Engineer in Charge, M. Corder.
1898	Hoyer - Arendal (REPAIR) off Jutland	Telcon	German-Norwegian Telegraph Co.	Britannia (2)	System 2.7 nm. CABLE: 3 cores 200/180 of 7 strands copper wire, 6 wrapped around 7th, each core coated in Chattertons Compound and gutta percha, then all coated together with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 12 No. 5 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 13 February, completed 27 February 1898. Engineer in Charge, M. Corder.
1898	Salcombe - Brignogan (REPAIR) off Salcombe	Telcon	GPO	Britannia (2)	System 1.76 nm. CABLE: 1 core 130/130 comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 10 No. 6 BWG plus 10 strands of 3 No. 6 BWG galvanised iron wires. Laying commenced 26 November, completed 27 November 1898. Engineer in Charge, M. Corder.
1899	Morfa Nevin, Aber Geirch, Caernarfon, Wales - Newcastle, County Wicklow, Ireland No 3	Telcon	GPO	HMTS Monarch (2)	Telephone cable. System 62 nm. 1 core, 138/552, comprised 4 air spaced copper conductors, each coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, 12 No.2 BWG galvanised iron wires wrapped in 2 layers hemp dipped in Bright and Clarks Composition.
1899	Gibraltar - Malta	Telcon	Eastern Telegraph Co	Anglia	System 1118 nm. CABLE: 1 core 360/250 comprised 7 strands copper wire coated with 3 alternate layers

					Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, main cable 15 No. 13 BWG. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were all sheathed in brass tape before jute serving applied. Intermediate cable (1)(Malta) 14 No. 9 BWG, intermediate cable (2) 12 No. 6 BWG, shore ends (1) 10 No.2 BWG. These sections wrapped in 2 layers jute dipped in Chattertons Compound. Shore end (2)(Gibraltar) 12 No. 6 BWG plus 14 No. 1 BWG. Laying commenced 3 January, completed 10 January 1899. Engineer in Charge, F.R. Lucas.
1899	Malta - Alexandria, Egypt	Telcon	Eastern Telegraph Co	Anglia	System 900 nm. CABLE: (1) 1 core 360/250. CABLE: (2) 1 core 330/250, both comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, all galvanised wires. CABLE (1) & (2), main cable 15 No. 13 BWG, both wrapped in 2 layers hessian tape dipped in Chattertons Compound. The following were sheathed in brass tape before jute serving applied. Intermediate cable (1)(Malta) 14 No. 9 BWG, intermediate cable (2)12 No. 6 BWG, shore end (1) (Malta) 10 No. 2 BWG. All these sections wrapped in 2 layers jute dipped in Chattertons Compound. Shore end (2)(Alexandria) 12 No. 6 BWG plus 14 No.1 BWG. Laying commenced 11 January, completed 23 January 1899. Engineer in Charge, F.R. Lucas.
1899	Manila - Capiz - Iloilo - Cebu	Telcon	Eastern Extension, Australasia China Telegraph Co	Recorder (1)	
1899	Punta Rassa - Miami Beach, Florida	India Rubber Gutta Percha & Telegraph Works	International Ocean Telegraph Co	Dacia	System 134 nm.
1899	Havana - Key West	?	International Ocean Telegraph Co		System 98 nm.
1899	Cape Town -	Telcon	Eastern	Anglia	System 12 nm. CABLE: 4 cores 250/180 each comprised

	Robben Island, South Africa		Telegraph Co		1 copper wire wrapped in 4 copper strips, coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, 20 No. 9 BWG plus 14 No. 1 BWG. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced and completed 7 November 1899. Engineer in Charge, F.R. Lucas.
1899	Robben Island, South Africa - St Helena	Telcon	Eastern Telegraph Co	Anglia	System 1879 nm. CABLE: 1 core 500/290 comprised 1 copper wire wrapped in 4 copper strips coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires. Main cable 17 No. 14 BWG. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following sections were sheathed in brass tape before jute serving applied. Intermediate cable 12 No. 6 BWG, shore ends (1) 10 No. 2 BWG, shore ends (2) 12 No. 6 plus 14 No. 1 BWG. The above sections wrapped in 2 layers jute dipped in Chattertons Compound. Shore end (3)(St. Helena) 12 No. 6 plus 14 No. 1 plus 6 No. 00 BWG. Laying commenced 10 November, completed 26 November 1899. Engineer in Charge F.R. Lucas. Shore end (3)(St. Helena) 12 No. 6 plus 14 No. 1 plus 6 No. 00 BWG.
1899	St Helena - Ascension	Telcon	Eastern Telegraph Co	Seine	System 788 nm. CABLE: 1 core 500/290 comprised 1 copper wire wrapped in 4 copper strips coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires. Main cable 17 No. 14 BWG. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following sections were sheathed in brass tape before jute serving applied. Intermediate cable 12 No. 6 BWG, shore ends (1) 10 No. 2 BWG, shore ends (2) 12 No. 6 plus 14 No. 1 BWG. The above sections wrapped in 2 layers jute dipped in Chattertons Compound. Shore ends (3) 12 No. 6 plus 14 No. 1 plus 6 No. 00 BWG. Laying commenced 9 December, completed 15 December 1899. Engineer in Charge F.R. Lucas.
1899	Kunashiri Island - Etorofu Island, Hokkaido, Japan	?	Japanese Government	?	System 58.8 km Single conductor insulated with gutta percha.

1899	Wakkanai - Rishrito - Rebunto, Japan	?	Japanese Government	?	System 49.9 km. Single conductor with gutta percha insulation
1899	Alexandria - Port Said (REPAIR)	Telcon	Eastern Telegraph Co	Anglia	System 0.9 + 0.4 nm. 1 core 360/250 consisting of 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, 0.9 nm. 12 No. 6 BWG, 0.4 nm. 14 No. 9 BWG, both wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 24 January, completed 25 January 1899. Engineer in Charge, F.R. Lucas.
1899	Greetsiel - Valentia (REPAIR)	Telcon	German Union Telegraph Co.	Britannia (2)	System 2.74 nm. 1 core 130/130 comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 7 January, completed 23 January 1899. Engineer in Charge, M. Corder.
1899	Greetsiel - Valentia (REPAIR)	Telcon	German Union Telegraph Co.	Britannia (2)	System 1.7 nm. 1 core 130/130 comprised 7 strands copper wire 6 wrapped around 7th, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring 10 No. 6 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 27 January, completed 1 February 1899. Engineer in Charge, M. Corder.
1899	Greetsiel - Valentia (REPAIR)	Telcon	German Union Telegraph Co.	Britannia (2)	System 3.08 nm. 1 core 130/130 comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape, then wrapped in jute dipped in cutch. Armouring 10 No. 2 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 27 January, completed 1 February 1899. Engineer in Charge, M. Corder.
1899	Hoyer - Arendal (REPAIR)	Telcon	German-Norwegian Telegraph Co.	Britannia (2)	System 2.7 nm. CABLE: 3 cores 200/180 each comprised of 7 strands copper wire, 6 wrapped around 7th, each core coated in Chattertons Compound and gutta percha, then all coated together with 3 alternate layers

					Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 12 No. 5 BWG galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 21 October, completed 22 October 1899. Engineer in Charge, M. Corder.
1900	Ascension - St Vincent, Cape Verde Islands	Telcon	Eastern Telegraph Co	Anglia	System 1775 nm. CABLE: 1 core 500/290 comprised 1 copper wire wrapped in 4 copper strips coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires. Main cable 17 No. 14 BWG. Cable wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass tape before the jute serving was added. Intermediate cable 12 No. 6 BWG, shore ends (1) 10 No. 2 BWG, shore ends (2) 12 No. plus 14 No. 1 BWG, shore end (3)(Ascension) 12 No. plus 14 No. 1 plus 6 No. 00 BWG. All wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 10 February, completed 21 February 1900. Engineer in Charge, F.R. Lucas.
1900	Pernambuco - Para, Brazil	Telcon	Western Telegraph Co	Scotia	System 1230 nm. CABLE: (1) 2.56 nm. Shore end (1) (Para). 2 cores 250/180 each consisting of 1 copper wire wrapped in 4 copper strips, coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, 18 No. 8 plus 14 No. 1 BWG. CABLE: (2) 1 core 250/180 consisting of 1 copper wire wrapped in 4 copper strips, coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, main cable 15 No. 14 BWG. This section wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass before jute serving was applied. Intermediate cable 12 No. 8 BWG, shore ends (2) 10 No. 2 BWG, shore ends (3) 12 No. 8 plus 14 No. 1 BWG. These wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 27 April, completed 16 May 1900. Engineer in Charge, M. Corder.
1900	Rio de Janeiro -	Telcon	Western	Scotia	System 1367 nm. CABLE: 1 core 250/180 consisting of 1

	Pernambuco		Telegraph Co		copper wire wrapped with 4 copper strips coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires. Main cable 15 No. 14 BWG, wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass tape before jute serving was applied. Intermediate cable 12 No. 8 BWG, shore ends (1) 10 No. 2 BWG, shore ends (2) 12 No. 8 plus 14 No. 1 BWG all wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 4 September, completed 22 September 1900. Engineer in Charge, M. Corder.
1900	Montevideo - Maldonado -	Telcon	Western Telegraph Co	Scotia	System 70 nm. CABLE: 1 core 250/180 consisting of 1 copper wire wrapped with 4 copper strips coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, main cable 20 No. 6 BWG, shore ends (1) 10 No.2 BWG, shore end (2)(Montevideo) 12 No. 8 plus 14 No. 1 BWG. All wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 25 November, completed 28 November 1900. Engineer in Charge, M. Corder.
1900	Maldonado - Rio de Janeiro	Telcon	Western Telegraph Co	Scotia	System 1091 nm. CABLE: 1 core 250/180 comprising 1 copper wire wrapped with 4 copper strips, coated with 3 alternate layers Chattertons Compound and gutta percha the wrapped in jute dipped in cutch. Armouring, all galvanised iron wires. Main cable 15 No. 14 BWG, wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. The following were sheathed in brass tape before jute serving was applied. Intermediate cable (1) 12 No. 8 BWG, intermediate cable (2) 10 No. 6 BWG, shore ends (1) 10 No. 2 BWG, shore end (2)(Rio) 12 No. plus 14 No. 1 BWG. All wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 28 November, completed 6 December 1900. Engineer in Charge, M. Corder.
1900	La Guaira - Carrenero - Puerto La Cruz - Cumanà -	La Société Générale des Téléphones	La Compagnie Francaise des Cables Telegraphiques	?	

	Carúpano, Venezuela				
1900	Para - Pernambuco - Rio de Janeiro - Maldonado - Montevideo	Telcon	Western Telegraph Co	Scotia	System 1390 + 1372 + 1093 + 72 nm
1900	Tsingtau - Tschifu: Tschifu - Tsingtau	Felten & Guillaume	German PTT	Sherard Osborn	2 cables laid over this route. CS Von Podbielski loaded the cable aboard at Rotterdam. Opened for traffic on the 4th October 1900
1900	Shanghai - Tschifu	Telcon	Great Northern Telegraph Company	Store Nordiske (1) - John Pender (2) - Sherard Osborn	
1900	Pusan, Korea - Tsushima, Japan	Telcon	Great Northern Telegraph Company	Store Nordiske (1)	
1900	Port Arthur - Tschifu	?	Russian PTT		This cable and the one below were handed over to the Imperial Chinese Telegraph Company in 1905. Japan then signed a treaty with China to operate and maintain these cables.
1900	Port Arthur - Sasebo, Island of Kyushu	?	Russian PTT		
1900	Wei Hai Wei - Tschifu	Telcon	Eastern Extension, Australasia and China Telegraph Company	Store Nordiske (1)	The UK handed Wei Hai Wei back to the Chinese in 1930
1900	Tschifu - Taku	Telcon	Great Northern Telegraph Company	Store Nordiske (1)	Opened for traffic on the 4th October
1900	Tschifu - Taku 2	Telcon	Eastern Extension, Australasia and China	Store Nordiske (1)	

			Telegraph Company		
1900	Tsingtau - Tschifu	Telcon	Eastern Extension, Australasia and China Telegraph Company	Sherard Osborn	
1900	Tsingtau - Shanghai	Felten & Guillaume	German PTT	Sherard Osborn - Von Podbielski - Store Nordiske (1)	Opened for traffic on the 1st January 1901
1900	Benacre, England - Zandvoort, Holland 2	?	GPO	?	
1900	Greetsiel - Borkum, Germany - Fayal, Azores	Felten & Guillaume supplied the conductor and armouring wires. - Telcon made and laid the cable	German Atlantic Telegraph Co	Anglia - Britannia (2)	System 1851 nm. CABLE: (1) 1 nm. Shore end (1) (Borkum) 2 cores 370/250 each comprised 1 copper wire wrapped in 4 copper strips coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires. 21 No. 9 BWG. Cable wrapped in 2 layers jute dipped in Chattertons Compound. CABLE: (2) 1 core 370/250 comprised, as above, except, armouring, Main cable (1) 17 No. 14 BWG, then wrapped in 2 layers hessian tape wound in opposite directions dipped in Chattertons Compound. Main cable (2) as (1) except armouring 16 No. 11 BWG, then wrapped in 2 layers jute dipped in Chattertons Compound. The following sheathed in brass tape before jute serving applied. Intermediate cable (1) 12 No. 6 BWG, intermediate cable (2) 10 No. 2 BWG, shore ends 12 No. 6 plus 14 No. 1 BWG, all wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 3 May, completed 26 May 1900. Engineer in Charge, F.R. Lucas. Diverted into Porthcurno in 1917 by Colonia. Operated by the GPO until 1929 then by C&W.
1900	Fayal, Azores - New York, USA	Felten & Guillaume	German Atlantic	Anglia - Britannia (2)	System 2290 nm. CABLE: (1) 10 nm. Shore end (1)(New York) 2 cores 600/340 each comprised 1 copper wire

		supplied the conductor and armouring wires. - Telcon made and laid the cable	Telegraph Co		wrapped in 4 copper strips coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires. 16 No. 1 BWG. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Main cable (1) 18 No. 14 BWG, wrapped in 2 layers hessian tape wound in opposite directions, main cable (2) 18 No. 11 BWG wrapped in 2 layers jute dipped in Chattertons Compound. The following were sheathed in brass tape before jute serving was applied. Intermediate cable 12 No. 6 BWG, shore ends (2) 10 No. 2 BWG, shore end (3)(Fayal) 12 No. 6 plus 14 No. 1 BWG. All wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 11 August, completed 28 August 1900. Engineer in Charge, F.R. Lucas. Diverted into Brest in 1917. Operated by the French PTT
1900	MAIN - 4B: Nova Scotia - Horta, Azores	Siemens Bros	Commercial Cable Co	Faraday (1)	System 1698 nm
1900	NY - 4: Nova Scotia - New York	India Rubber Gutta Percha & Telegraph Works	Commercial Cable Co	Silvertown	System 890 nm
1900	Unalakik - St Michael - Safety Island, Cape Gnome, Alaska	?	US Army	Orizaba	System 55 + 132 nm. At Unalakik the cable connected with the landline to the Yukon.
1900	Straits of Mackinac, Lake Michigan	Simplex Electric Company	?	?	System 5 nm. Telephone cable insulated with rubber
1900	Boston Harbour	Simplex Electric Company	?	?	System nm. Telephone cable insulated with rubber
1900	Kuromon - Fujigayama, Kanmon Straits, Japan	?	Japanese Government	?	System 34 km. First submarine telephone cable laid in Japan. Conductor made of 8 strands copper wire, seven wrapped around eighth, insulated with gutta percha.
1900	Muroran - Kokugokou,	?	Japanese Government	?	System 38.2 km. Single conductor insulated with gutta percha

	Japan				
1900	Tomamae - Yakishiri - Amauritou, Japan	?	Japanese Government		System 29.9 km. Single conductor insulated with gutta percha
1900	Motoki Aomori - Kikonai, Japan	?	Japanese Government		System 56.4 km. Double conductor insulated with gutta percha
1900	Cuckmere - Le Havre	Telcon	GPO	Britannia (2)	System 81 nm. CABLE: 1 core 130/130 consisting of 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, all galvanised iron wires, main cable 10 No. 1 BWG, wrapped in 2 layers jute dipped in Chattertons Compound. Shore ends 10 No. 1 plus 6 No. 00 BWG. Laying commenced 11 March, completed 13 March 1900. Engineer in Charge, M. Corder.
1900	Brignogan - Penzance (REPAIR)	Telcon	GPO	Britannia (2)	System 2.66 nm. CABLE: 1 core comprised 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 12 No. 8 galvanised iron wires. Cable wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 10 February, completed 23 February 1900. Engineer in Charge, M. Corder
1900	Brest - St. Pierre (REPAIR)	Telcon	Anglo American Telegraph Co	Britannia (2)	System 20 nm. CABLE: 1 core 350/300 consisting of 7 strands copper wire coated with 3 alternate layers Chattertons Compound and gutta percha then wrapped in jute dipped in cutch. Armouring, 18 No. 13 BWG galvanised iron wires. Laying commenced 22 March, completed 17 April 1900. Engineer in Charge, S. London.
1900	Borkum - Fayal (REPAIR) near Haaks	Telcon	German Atlantic Telegraph Co	Britannia (2)	System 1.24 nm. CABLE: 1 core 370/250 comprised 1 copper wire wrapped with 4 copper strips coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 29 November, completed 1 December 1900. Engineer in Charge, S.P. London.
1900	Borkum - Fayal	Telcon	German	Britannia (2)	System 5 nm. CABLE: 1 core 370/250 comprised 1

	(REPAIR) South of Haaks		Atlantic Telegraph Co		copper wire wrapped with 4 copper strips coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 29 November, completed 1 December 1900. Engineer in Charge, S.P. London.
1900	Borkum - Fayal (REPAIR) repair off the Start	Telcon	German Atlantic Telegraph Co	Britannia (2)	System 3.48 + 7.85 nm. CABLE: (1) 1 core 370/250 comprised 1 copper wire wrapped with 4 copper strips coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, 10 No. 2 BWG galvanised iron wires. Wrapped in 2 layers jute dipped in Chattertons Compound. CABLE: (2) as above except armouring 12 No. 6 BWG galvanised iron wires. Laying commenced 29 November, completed 1 December 1900. Engineer in Charge, S.P. London.
1900	St. Vincent - Pernambuco (REPAIR) repair to 1884 cable	Telcon	Western Telegraph Co	Scotia	System 4.44 nm. CABLE: 1 core 250/180 comprised 1 copper wire wrapped with 4 copper strips coated with 3 alternate layers Chattertons Compound and gutta percha, sheathed in brass tape then wrapped in jute dipped in cutch. Armouring, 12 No. 8 BWG galvanised iron wires. Wrapped in 2 layers jute dipped in Chattertons Compound. Laying commenced 29 September, completed 30 September 1900. Engineer in Charge, M. Corder.
These Canadian cables were laid prior to 1890, as they appear in the Berne List in a publication of that year, but the exact dates are unknown.					
?	Gasp, Quebec - Anticosta Island, Quebec	?	Canadian Government	?	System 44.25 nm
?	Big Bras d'Or, Cape Breton, Nova Scotia; Across the Channel	?	Canadian Government	?	System 0.5 nm
?	Eastport - Campo-Bello	?	Canadian Government	?	System 2 nm

	Island, New Brunswick				
?	Cape Sable, Nova Scotia; Across the Channel	?	Canadian Government	?	System 1.75 nm
?	Manicougan - Godbout, Quebec	?	Canadian Government	?	System 26 nm
?	Grosse Isle - Isle aux Reaux, Quebec	?	Canadian Government	?	System 2 nm
?	Meat Cove - Old Harry - Bird Rock, Magdalen Islands, Quebec	?	Canadian Government	?	System 73.5 nm
?	Point Pele - Pele Island, Ontario	?	Canadian Government	?	System 8.75 nm
?	Bersimis - Pointe aux Outardes, Quebec	?	Canadian Government	?	System 12 nm
?	L'Ange Gardien - St Pierre, Orleans Island, Quebec	?	Canadian Government	?	System 1 nm
?	St Francois - Isle au Reaux, Quebec	?	Canadian Government	?	System 2 nm
?	Tadoussac, North Shore, Quebec; Across the Saguenay River	?	Canadian Government	?	System 1.25 nm
Cables laid across Bays and Estuaries in England, Wales, Scotland and Ireland prior to 1890					
1870, 82	Strachur - Kenmure, Loch	?	?	?	System 1870; 1.2 nm with 6 conductors: 1882 1.1 nm. with 7 conductors

	Fyne, Scotland (2 cables)				
1871	Across the Port of Milford Haven, Wales (1 cable)	?	?	?	System 0.6 nm. with 4 conductors
1871	Across Waterford Harbour, Ireland (3 cables)	?	?	?	System cables 1.4, 1.4, 1.5 nm with 4 conductors
1871	Granton - Burntisland, across the Firth of Forth, Scotland (1 cable)	?	?	?	System 5.1 nm. Cable with 4 conductors
1873, 84, 86	North Queensferry - South Queensferry, Scotland (3 cables)	?	?	?	System 1873 1.2 nm; 1884 1.4 nm: 1886 1.3 nm. each with 7 conductors
1878, 82, 87	Row - Clachan Gairloch, Scotland (3 cables)	?	?	?	System each cable 0.4 nm with 7, 4 and 3 conductors respectively
1879	New Holland - Dairycoates, Hull, England (1 cable)	?	?	?	System 1.4 nm. with 7 conductors
1880, 83	Across the River Slaney at Wexford, Ireland (2 cables)	?	?	?	System each cable 0.34 nm with 7 and 4 conductors respectively
1882	Across Loch Leven at Ballachulich Ferry, Scotland (4 cables)	?	?	?	System 1882; 2 cables 0.2 nm. with 1 conductor; Undated 2 cables 0.2 nm with 1 conductor
1882	Granton -	?	?	?	System 4.5 nm with 7 conductors

	Arberdour, Across the Firth of Forth, Scotland (1 cable)				
1882, 84	Across Loch Etive at Connel Ferry, Scotland (2 cables)	?	?	?	System 1882; 0.28 nm with 1 conductor: 1884; 0.28 nm with 4 conductors
1882, 88	Across Loch Creran at Shian Ferry, Scotland. (3 cables)	?	?	?	System 1882; 2 cables 0.61nm and 0.63 nm both with 1 conductor. 1888; 1 cable 0.66 nm with 4 conductors
1884, 88	Across the River Dart to Chain Ferry, Devon, England (2 cables)	?	?	?	System both cables 0.3 nm. 1884 with 3 conductors, 1888 with 4 conductors
1885	Across Loch Eil at Corran Ferry, Scotland (1 cable)	?	?	?	System 1.1 nm with 1 conductor
1885	Cove - Blaimore; Across Loch Long, Scotland (2 cables)	?	?	?	System each cable 1.6 nm with 7 conductors
1886	Across the Firth of Forth at Alloa, Scotland (1 cable)	?	?	?	System 0.28 nm with 1 conductor
?	Across the River Tees at Middlesborough (8 cables)	?	?	?	System all 0.2 nm, 2 with 7 conductors and 6 with 4 conductors
?	Across the Gloucester & Sharpness Canal at Sharpness,	?	?	?	System all 0.05 nm with 4 conductors

	England (4 cables)				
?	Swansea Docks - Swansea, Across the Canal, Wales (1 cable)	?	?	?	System 0.07 nm with 4 conductors
?	Across the River Yar, Isle of Wight, England (1 cable)	?	?	?	System 0.07 nm with 7 conductors
?	Across the River Medina, Isle of Wight (1 cable)	?	?	?	System 0.08 nm with 4 conductors
?	Across the River Dee at Queensferry, Chester, England (2 cables)	?	?	?	System both cables 0.1 nm with 4 conductors
?	Across the River Suir at Waterbridge, Ireland (5 cables)	?	?	?	System each cable 0.15 nm. with 4 conductors
?	Devonport - Torpoint, across the River Tamar, England (2 cables)	?	?	?	System 0.38 and 0.36 nm. Each with 1 conductor
?	Whitepoint - Haulbowline, Ireland (2 cables)	?	?	?	System each cable 0.26 nm. Each with 1 conductor
?	Haulbowline - Spike Island, Ireland (1 cable)	?	?	?	System 0.4 nm with 1 conductor
?	Cross Haven - West Seamount, Ireland (1 cable)	?	?	?	System 0.2 nm with 1 conductor

?	Foyle Road - Waterside, Ireland (2 cables)	?	?	?	System each cable 0.25 nm. One with 4 conductors and one with 7 conductors
PROPOSED CABLE TO AUSTRALIA					
	Sook Bay, British Columbia - Sandwich Islands (Hawaii)	?	?	?	System 2350 nm
	Sandwich Islands - Fanning Island	?	?	?	System 1050 nm
	Fanning Island - Samoa Island	?	?	?	System 1260 nm
	Samoa Island - Fiji Islands	?	?	?	System 475 nm
	Fiji Islands - Brisbane, Australia	?	?	?	System 1620 nm
					System total 6755 nm
PROPOSED DIRECT CABLE TO SCOTLAND or IRELAND					
	Anticosti Island - Greenly Island, Strait of Belle Isle, Quebec, Canada	?	?	?	System 240 nm
	Greenly Island - Mull, Scotland. Or to Westport Island, Clew Bay, Ireland	?	?	?	System 1900 nm
					System total 2140 nm
PROPOSED CABLE TO JAPAN via the ALEUTIAN ISLANDS					

Vancouver Island, British Columbia - Yezzo, Japan	?	?	?	Estimated length of system 3450 nm
None of the above 3 schemes were undertaken				

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—Bill Burns, publisher and webmaster: Atlantic-Cable.com