

## 2019 Circuit Capacity Data For U.S.-International Submarine Cables

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**Source:** International Bureau, Federal Communications Commission

For definitions of terms and instructions on filing procedures, please refer to the [Filing Manual \(Feb. 2020\)](#)

For further information on current and past reports, see

<https://www.fcc.gov/circuit-capacity-data-us-international-submarine-cables>

**Table 1**  
**Section 43.82 Circuit Capacity Filers (2019)**

No.	Entities	Submarine Cable Operator Reports	Submarine Cable Capacity Holder Reports
1	America Europe Connect 2 USA, Inc.	✓	
2	America Europe Connect Licenses Limited	✓	✓
3	American Samoa Hawaii Cable, LLC	✓	✓
4	ANGOLA CABLES		✓
5	Antilles Crossing-St. Croix, Inc.	✓	✓
6	ARCOS-1 USA, Inc.	✓	✓
7	Assurance Wireless USA, L.P.	✓	✓
8	AST Telecom, LLC d/b/a Bluesky		✓
9	AT&T Corp.	✓	✓
10	Australia-Japan Cable (Guam) Limited	✓	✓
11	Bharti Airtel (USA) Ltd.		✓
12	BIG		✓
13	BT Americas Inc.		✓
14	Cable and Wireless Americas Systems Inc.	✓	✓
15	Caribbean Crossings Ltd.	✓	✓
16	CAT Telecom Public Company Limited		✓
17	Cedar Cable Ltd.	✓	✓
18	CenturyLink Communications, LLC		✓
19	China Mobile International Limited		✓
20	China Telecom (Americas) Corporation		✓
21	China Telecommunications Corporation		✓
22	China Unicom Americas Operations Ltd		✓
23	China United Network Communications Group Company Limited		✓
24	Chunghwa Telecom Co., Ltd.		✓
25	City of Ketchikan	✓	
26	COLT Telecommunications		✓
27	Columbus Networks USA, Inc.	✓	✓
28	Crosslake Fiber USA LP	✓	✓
29	Crown Castle Fiber LLC		✓
30	CWC New Cayman Ltd.	✓	✓
31	DOCOMO PACIFIC, INC.		✓
32	Edge Cable Holdings USA, LLC		✓
33	France Telecom Long Distance USA, LLC		✓
34	Global Caribbean Network	✓	✓
35	Global Transit 2 Limited		✓
36	Global Transit Limited		✓
37	Globenet Cabos Sumarinos America, Inc.	✓	✓
38	Globe Telecom, Inc.		✓
39	GTI Corporation		✓
40	GTT Americas LLC	✓	✓
41	GU Holdings Inc.	✓	✓
42	Hawaiian Telcom Services Company, Inc.	✓	
43	Hawaiki Submarine Cable USA LLC	✓	✓
44	KDDI America, Inc.		✓
45	KT Corporation		✓

No.	Entities	Submarine Cable Operator Reports	Submarine Cable Capacity Holder Reports
46	Latam Telecommunications, L.L.C.	✓	✓
47	Ledcor Industries (USA) Inc.	✓	
48	Level 3 Communications, LLC	✓	✓
49	Marine Cable Corporation		✓
50	MCI Communications Corporation	✓	✓
51	Megaport (USA), Inc.		✓
52	Microsoft Infrastructure Group, LLC		✓
53	Microsoft Operations Pte Ltd	✓	✓
54	Network i2i Limited		✓
55	New Century InfoComm Tech Co., Ltd.		✓
56	NTT America, Inc.		✓
57	NTT Communications Corporation		✓
58	ONATI Honotua Division (U.S.)	✓	✓
59	Orange Business Services U.S. Inc		✓
60	Pacific Carriage Ltd	✓	✓
61	PCCW Global, Inc.		✓
62	PC Landing Corp.	✓	✓
63	PLDT Inc.		✓
64	PLDT (US) Ltd.		✓
65	PPC 1 Limited	✓	✓
66	PREPA Networks, LLC		✓
67	PTI Pacifica Inc.		✓
68	PT Telekomunikasi Indonesia International		✓
69	Puerto Rico Telephone Company, Inc.		✓
70	Reliance Globalcom Limited	✓	✓
71	Rogers Communications Partnership		✓
72	Seabras 1 USA, LLC	✓	✓
73	Singapore Telecom USA, Inc.		✓
74	SMITCOMS, Inc.	✓	✓
75	StarHub Ltd		✓
76	TA Resources N.V.		✓
77	Tata Communications (America) Inc.	✓	✓
78	TeleGuam Holdings, LLC		✓
79	Telekom Malaysia Bhd		✓
80	Telia Carrier U.S. Inc.		✓
81	Telstra Incorporated	✓	✓
82	Telxius Cable USA, Inc.	✓	✓
83	TI Sparkle North America, Inc.		✓
84	Truestone, LLC	✓	✓
85	T-Systems North America, Inc.		✓
86	VNPT		✓
87	Zayo Group, LLC		✓
<b>Total</b>		<b>37</b>	<b>83</b>

**Table 2**  
**Number of Reports Filed by Submarine Cable Operators (2019)**

No.	Entities	Cable Reports
1	America Europe Connect 2 USA, Inc.	1
2	America Europe Connect Licenses Limited	1
3	American Samoa Hawaii Cable, LLC	1
4	Antilles Crossing-St. Croix, Inc.	1
5	ARCOS-1 USA, Inc.	1
6	Assurance Wireless USA, L.P.	2
7	AT&T Corp.	9
8	Australia-Japan Cable (Guam) Limited	1
9	Cable and Wireless Americas Systems Inc.	1
10	Caribbean Crossings Ltd.	1
11	Cedar Cable Ltd.	1
12	City of Ketchikan	1
13	Columbus Networks USA, Inc.	1
14	Crosslake Fiber USA LP	1
15	CWC New Cayman Ltd.	1
16	Global Caribbean Network	1
17	Globenet Cabos Sumarinos America, Inc.	1
18	GTT Americas LLC	1
19	GU Holdings Inc.	4
20	Hawaiian Telcom Services Company, Inc.	1
21	Hawaiki Submarine Cable USA LLC	1
22	Latam Telecommunications, L.L.C.	1
23	Ledcor Industries (USA) Inc.	1
24	Level 3 Communications, LLC	4
25	MCI Communications Corporation	1
26	Microsoft Operations Pte Ltd	1
27	ONATI Honotua Division (U.S.)	1
28	Pacific Carriage Ltd	1
29	PC Landing Corp.	1
30	PPC 1 Limited	1
31	Reliance Globalcom Limited	1
32	Seabras 1 USA, LLC	1
33	SMITCOMS, Inc.	1
34	Tata Communications (America) Inc.	2
35	Telstra Incorporated	1
36	Telxius Cable USA, Inc.	4
37	Truestone, LLC	1
<b>Total</b>		<b>56</b>

**Table 3**  
**Submarine Cable Operator Reports (in Gbps) (2019/2021)**

No.	Cable System	Available Capacity as of 12/31/2019	Planned Capacity as of 12/31/2021
	<b>Americas Region</b>		
1	America Movil Submarine Cable System (AMX1)	*	*
2	AmeriCan-1	*	*
3	Americas II	6,140.0	6,140.0
4	Antillas 1	302.5	302.5
5	Antilles Crossing	*	*
6	ARCOS-1	*	*
7	BAHAMAS II	100.0	100.0
8	Bahamas Internet Cable System (BICS)	466.0	666.0
9	BRUSA	*	*
10	CFX-1 Cable System (CFX-1)	*	*
11	Challenger Bermuda (CB-1)	*	*
12	Crosslake Fibre	*	*
13	Curie	*	*
14	Gemini Bermuda System	*	*
15	Global Caribbean Network (GCN)	140.0	260.0
16	GlobeNet	*	*
17	KetchCan1 Submarine Fiber Cable System	*	*
18	Maya-1	*	*
19	Monet Cable System	*	*
20	Pacific Caribbean Cable System (PCCS)	*	*
21	Pan American Cable System	140.0	140.0
22	Pan American Crossing (PAC)	*	*
23	Seabras-1	*	*
24	SMPR-1	*	*
25	South America-1 (SAm-1)	*	*
26	South American Crossing (SAC)	*	*
27	Taino-Carib	40,400.0	40,400.0
	<b>Total Americas Region:</b>	<b>2,435,174.0</b>	<b>2,462,154.0</b>
	<b>Atlantic Region</b>		
1	AEConnect Cable Network	*	*
2	Apollo Cable	*	*
3	Atlantic Crossing-1 (AC-1)	*	*
4	Columbus III	600.0	600.0
5	FLAG Atlantic-1	*	*
6	GTT Atlantic	*	*
7	Havfrue	*	*
8	MAREA	*	*
9	TAT-14	*	*
10	TGN Atlantic	*	*
11	Yellow	*	*

No.	Cable System	Available Capacity as of 12/31/2019	Planned Capacity as of 12/31/2021
	<b>Total Atlantic Region:</b>	<b>362,140.0</b>	<b>531,740.0</b>
	<b>Pacific Region</b>		
1	American Samoa Hawaii Cable	*	*
2	Asia America Gateway (AAG)	15,450.0	15,450.0
3	Australia-Japan Cable	*	*
4	FASTER Cable System	*	*
5	GOKI Cable Network	100.0	100.0
6	HANTRU1	*	*
7	Hawaiki Cable System	*	*
8	Honotua Cable System	40.0	40.0
9	Japan-U.S. Cable Network	20,800.0	20,800.0
10	New Cross-Pacific (NCP)	*	*
11	Pacific Crossing-1 (PC-1)	*	*
12	PPC-1	*	*
13	Southeast Asia-US (SEA-US)	*	*
14	Southern Cross Cable Network	*	*
15	Telstra Endeavour	*	*
16	TGN Pacific	*	*
17	Trans-Pacific Express (TPE) Cable Network	*	*
18	Unity Cable System	*	*
	<b>Total Pacific Region:</b>	<b>260,741.2</b>	<b>283,261.2</b>
	<b>All Regions</b>		
	Americas	<b>2,435,174.0 (79.6%)</b>	<b>2,462,154.0 (75.1%)</b>
	Atlantic	<b>362,140.0 (11.8%)</b>	<b>531,740.0 (16.2%)</b>
	Pacific	<b>260,741.2 (8.5%)</b>	<b>283,261.2 (8.6%)</b>
	<b>Total</b>	<b>3,058,055.2 (100%)</b>	<b>3,277,155.2 (100%)</b>
* Filer requested confidential treatment of its Submarine Cable Operator Report data.			

Table 4  
Submarine Cable Operator Capacity Trend Data (in Gbps)

CABLES	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Planned 2021
<b>AMERICAS REGION</b>														
América Móvil Submarine Cable System (AMX1)								1,640	2,800	4,660	4,890	*	*	*
AmeriCan-1	159.3	159.3	159.3	159.3	159.3	159.3	159.3	1,163	1,167.5	1,467.5	*	*	*	*
Americas II	80	80	80	520	780	820	850	850	920	960	1,070	5,070.0	6,140.0	6,140.0
Antillas I	5	5	10	20	20	60	90	90	90	90	90	302.5	302.5	302.5
Antilles Crossing	30	20	20	20	30	30	40	80	*	320	320	*	*	*
ARCOS-1	80	120	210	240	290	350	450	1,468	*	*	*	*	*	*
BAHAMAS II	2.5	2.5	2.5	2.5	2.5	60	60	60	60	60	60	100.0	100.0	100.0
Bahamas Internet Cable System (BICS)	12.5	12.5	12.5	22.5	22.5	20	40	60	60	100	278	469.0	466.0	666.0
BRUSA												*	*	*
CFX-1 Cable System (CFX-1)		100	110	500	560	610	1,040	1,580	*	*	*	*	*	*
Challenger Bermuda (CB-1)		20	20	20	20	20	20	20	*	*	*	*	*	*
Crosslake Fibre													*	*
Curie													*	*
Gemini Bermuda System		40	40	70	80	80	140	160	*	*	*	*	*	*
Global Caribbean Network (GCN)	20	20	20	20	40	40	40	60	70	*	140	140.0	140.0	260.0
GlobeNet	80	140	720	720	2,080	2,080	2,400	2,400	*	*	*	*	*	*
KetchCan1 Submarine Fiber Cable System													*	*
Maya-1	65	145	145	145	145	145	145	980	*	*	*	*	*	*
Monet Cable System												*	*	*
Pacific Caribbean Cable System (PCCS)									950	*	5,470	*	*	*
Pan American Cable System	5	5	5.0	140	140	140	140	140	140	140	140	140.0	140.0	140.0
Pan American Crossing (PAC)	50	65	95	150	310	460	790	800	*	*	*	*	*	*
Seabras-1											*	*	*	*
SMPR-1	2.5	2.5	2.5	2.5	2.6	3	3	10	10	*	10	*	*	*
South America-1 (SAM-1)	160	440	960	1,300	1,700	2,100	2,700	4,400	5,100	*	12,250	*	*	*
South American Crossing (SAC)	200	200	320	530	620	935	1,600	4,260	*	*	*	*	*	*
Taino-Carib	1.9	1.9	1.9	70	70	70	110	110	110	120	120	40,400.0	40,400.0	40,400.0
<b>Total</b>	<b>953.6</b>	<b>1,578.6</b>	<b>2,933.6</b>	<b>4,651.8</b>	<b>7,071.9</b>	<b>8,181.9</b>	<b>10,787.4</b>	<b>20,331</b>	<b>28,057.5</b>	<b>42,347.5</b>	<b>168,525.5</b>	<b>580,827.0</b>	<b>2,435,174.0</b>	<b>2,462,154.0</b>
<b>ATLANTIC REGION</b>														
AEOConnect Cable Network									*	*	*	*	*	*
Apollo Cable	1,280	2,280	2,860	3,100	3,150	3,420	3,510	6,100	*	*	*	*	*	*
Atlantic Crossing-1 (AC-1)	635	815	1,165	1,455	1,500	1,760	2,100	2,350	*	*	*	*	*	*
Columbus III	40	40	160	160	160	160	160	160	160	160	160	600.0	600.0	600.0
FLAG Atlantic -1	1,240	1,480	1,640	2,200	2,280	2,830	3,560	4,430	6,130	*	*	10,260.0	*	*
GTT Atlantic	360	360	360	360	2,000	2,750	3,750	14,400	*	*	*	13,800.0	*	*
Havfrue												*	*	*
MAREA												*	*	*
TAT-14	1,280	1,280	1,870	1,870	1,870	2,250	2,990	3,150	*	*	*	*	*	*
TGN Atlantic	460	1,040	1,460	1,560	1,770	2,810	3,010	3,420	6,310	*	*	*	*	*
Yellow	320	500	900	1,780	1,780	1,860	1,750	4,420	*	*	*	*	*	*
<b>Total</b>	<b>5,615</b>	<b>7,795</b>	<b>10,415</b>	<b>12,485</b>	<b>14,510</b>	<b>17,840</b>	<b>20,830</b>	<b>38,430</b>	<b>47,920</b>	<b>137,160</b>	<b>149,780</b>	<b>332,440.0</b>	<b>362,140.0</b>	<b>531,740.0</b>
<b>PACIFIC REGION</b>														
American Samoa Hawaii Cable			1	1	1	1	1	1	1.2	*	*	*	*	*
Asia America Gateway (AAG)			540	540	580	1,540	1,540	2,180	4,210	6,610	8,100	15,000.0	15,450.0	15,450.0
Australia-Japan Cable	160	520	520	520	640	1,200	1,480	1,760	*	*	*	*	*	*
FASTER Cable System												*	*	*
GOKI Cable Network											80	100.0	100.0	100.0
HANTRU1				40	40	40	40	20	*	*	*	*	*	*
Hawaiki Cable System												*	*	*
Honotua Cable System				20	20	20	20	20	40	*	40	40.0	40.0	40.0
Japan-U.S. Cable Network	800	1,900	2,180	2,300	2,500	2,530	4,630	5,380	6,850	7,240	8,000	20,800.0	20,800.0	20,800.0
New Cross-Pacific (NCP)												*	*	*
Pacific Crossing-1 (PC-1)	360	960	1,030	1,430	1,800	1,800	2,900	2,780	*	*	*	*	*	*
PPC-1			140	140	140	140	140	700	*	*	5,000	*	*	*
Southeast Asia-US (SEA-US)												*	*	*
Southern Cross Cable Network	480	860	860	1,240	1,240	1,640	2,700	3,500	*	*	*	*	*	*
Telstra Endeavour		80	80	160	300	300	600	580	*	*	*	*	*	*
TGN Pacific	1,880	2,760	3,140	3,140	3,140	3,660	4,350	5,520	6,430	*	*	*	*	*
Trans-Pacific Express (TPE) Cable Network		1,280	1,280	1,870	1,870	2,040	2,200	2,200	2,200	3,230	5,680	6,610.0	*	*
Unity Cable System				2,380	2,380	2,700	4,020	7,220	*	*	*	*	*	*
<b>Total</b>	<b>3,840</b>	<b>8,520</b>	<b>9,931</b>	<b>13,941</b>	<b>14,811</b>	<b>17,771</b>	<b>24,781</b>	<b>32,021</b>	<b>43,783</b>	<b>75,394</b>	<b>93,374</b>	<b>248,461.2</b>	<b>260,741.2</b>	<b>283,261.2</b>
<b>REGIONAL CAPACITY</b>														
Americas	953.6	1,578.6	2,933.6	4,651.8	7,071.9	8,181.9	10,787.4	20,331	28,057.5	42,347.5	168,525.5	580,827.0	2,435,174.0	2,462,154.0
Atlantic	6,015	8,195	10,815	12,885	15,640	19,090	22,580	38,430	47,920	137,160	149,780	332,440.0	362,140.0	531,740.0
Pacific	3,840	8,520	9,931	13,941	14,811	17,771	24,781	32,021	43,783	75,394	93,374	248,461.2	260,741.2	283,261.2
<b>Total</b>	<b>10,809</b>	<b>18,294</b>	<b>23,680</b>	<b>31,478</b>	<b>37,523</b>	<b>45,043</b>	<b>58,148</b>	<b>90,782</b>	<b>119,761</b>	<b>254,901.5</b>	<b>411,680</b>	<b>1,161,728.2</b>	<b>3,058,055.2</b>	<b>3,277,155.2</b>
<b>NUMBER OF CABLES IN SERVICE</b>														
Americas	16	19	19	19	19	19	19	20	21	21	22	24	25	
Atlantic	8	8	8	8	8	8	8	8	8	9	9	10	10	
Pacific	6	8	11	14	14	14	14	14	14	14	16	18	18	
<b>Total</b>	<b>30</b>	<b>35</b>	<b>38</b>	<b>41</b>	<b>41</b>	<b>41</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>47</b>	<b>52</b>	<b>53</b>	
<b>GROWTH RATE RELATIVE TO PREVIOUS YEAR</b>														
Americas		65.5%	85.8%	58.6%	52.0%	15.7%	31.8%	88.5%	38.0%	50.9%	298.0%	244.7%	319.3%	
Atlantic		36.2%	32.0%	19.1%	21.4%	22.1%	18.3%	70.2%	24.7%	186.2%	9.2%	122.0%	8.9%	
Pacific		121.9%	16.6%	40.4%	6.2%	20.0%	39.4%	29.2%	36.7%	72.2%	23.8%	166.1%	4.9%	
<b>Total</b>		<b>69.3%</b>	<b>29.4%</b>	<b>32.9%</b>	<b>19.2%</b>	<b>20.0%</b>	<b>29.1%</b>	<b>56.1%</b>	<b>31.9%</b>	<b>112.8%</b>	<b>61.5%</b>	<b>182.2%</b>	<b>163.2%</b>	

CABLES	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Planned 2021
<b>COMPOUND ANNUAL GROWTH RATE FOR 2007-2019</b>														
Americas	92.3%													
Atlantic	40.7%													
Pacific	42.1%													
<b>Total</b>	<b>60.1%</b>													
<b>FORECAST COMPOUND ANNUAL GROWTH RATE (2019-2021)</b>														
Americas	0.6%													
Atlantic	21.2%													
Pacific	4.2%													
<b>Total</b>	<b>3.5%</b>													

\* Filer requested confidential treatment of its Submarine Cable Operator Report data.

We note that: (1) data as of 2007 to 2013 were extracted from the 2013 Section 43.82 Circuit Status Data Report; (2) cables that are no longer in operation are not listed in this table; (3) the "number of cables in service" reflects the number of U.S.-international cables that were in service as of the end of the reporting period; and (4) on December 28, 2018, the International Bureau released a revised Filing Manual and clarified the definition of "[a]vailable capacity, also known as design capacity, is all of the capacity (both lit and unlit capacity) on the cable as of the reporting date (December 31 of the reporting period)." *International Bureau Releases Revised Filing Manual for Section 43.82 Circuit Capacity Reports*, Public Notice, 33 FCC Red 12517 (2018); Filing Manual at 6, para. 28.



**Table 5**  
**Submarine Cable Capacity Holder Reports by Region (2019)**

Capacity Holders in Gbps Units								
Region	Owned Capacity (a)	Net IRUs (b)	Net Inter-Carrier Leaseholds (c)	Net Capacity Held (d)=(a)+(b)+(c)=(e)+(f)	Activated Capacity (e)	Non-Activated Capacity (f)	Activated % (g)	Non-Activated % (h)
Americas	2,348,532.0	-83,730.4	-20,041.3	2,244,760.3	57,808.1	2,186,952.2	2.6%	97.4%
Atlantic	376,119.5	-72,976.7	12,131.5	315,274.3	167,524.9	147,749.4	53.1%	46.9%
Pacific	271,852.1	15,530.0	6,322.1	293,704.2	163,350.5	130,353.7	55.6%	44.4%
<b>Total</b>	<b>2,996,503.6</b>	<b>-141,177.1</b>	<b>-1,587.7</b>	<b>2,853,738.8</b>	<b>388,683.5</b>	<b>2,465,055.3</b>	<b>13.6%</b>	<b>86.4%</b>

The aggregate capacity holder data represent data for U.S.-international submarine cables that were in service as of the end of the reporting period.

In previous reports, capacity holder data were reported in STM-1 (Synchronous Transport Module level-1) units, which had been the standard commercial unit for the sale and leasing of capacity. Starting in 2019, all capacity holdings data are reported in gigabits per second (Gbps). The conversion ratio is 1 Gbps = 6.4 STM-1s.

**Table 6**  
**Percentage of Total Available Capacity Reported (2019)**

<b>Region</b>	<b>Submarine Cable Operator Reports (Gbps) (Available Capacity)</b>	<b>Submarine Cable Capacity Holder Reports (Gbps) (Owned Capacity)</b>	<b>Discrepancy</b>	<b>Percent Captured by Holder Reports</b>	<b>Percent Not Captured by Holder Reports</b>
Americas	2,435,174.0	2,348,532.0	86,642.0	96.4%	3.6%
Atlantic	362,140.0	376,119.5	-13,979.5	103.9%	-3.9%
Pacific	260,741.2	271,852.1	-11,110.9	104.3%	-4.3%
<b>Total</b>	<b>3,058,055.2</b>	<b>2,996,503.6</b>	<b>61,551.6</b>	<b>98.0%</b>	<b>2.0%</b>

**Attachment A**  
**U.S.-International Submarine Cables – Landing Points**  
**by Region, Cable, and Foreign Landing Point as of December 31, 2019**

No.	Region	Cable Name	Foreign Landing Point
1	Americas	América Móvil Submarine Cable System (AMX1)	Brazil
2	Americas	América Móvil Submarine Cable System (AMX1)	Colombia
3	Americas	América Móvil Submarine Cable System (AMX1)	Dominican Republic
4	Americas	América Móvil Submarine Cable System (AMX1)	Guatemala
5	Americas	América Móvil Submarine Cable System (AMX1)	Mexico
6	Americas	AmeriCan-1	Canada
7	Americas	Americas II	Brazil
8	Americas	Americas II	Curaçao
9	Americas	Americas II	French Guiana
10	Americas	Americas II	Martinique
11	Americas	Americas II	Trinidad and Tobago
12	Americas	Americas II	Venezuela
13	Americas	Antillas 1	Dominican Republic
14	Americas	Antilles Crossing	Barbados
15	Americas	Antilles Crossing	Saint Lucia
16	Americas	ARCOS-1	Bahamas
17	Americas	ARCOS-1	Belize
18	Americas	ARCOS-1	Colombia
19	Americas	ARCOS-1	Costa Rica
20	Americas	ARCOS-1	Curaçao
21	Americas	ARCOS-1	Dominican Republic
22	Americas	ARCOS-1	Guatemala
23	Americas	ARCOS-1	Honduras
24	Americas	ARCOS-1	Mexico
24	Americas	ARCOS-1	Nicaragua
26	Americas	ARCOS-1	Panama
27	Americas	ARCOS-1	Turks and Caicos Islands
28	Americas	ARCOS-1	Venezuela
29	Americas	BAHAMAS II	Bahamas
30	Americas	Bahamas Internet Cable System (BICS)	Bahamas
31	Americas	BRUSA	Brazil
32	Americas	CFX-1 Cable System (CFX-1)	Colombia
33	Americas	CFX-1 Cable System (CFX-1)	Jamaica
34	Americas	Challenger Bermuda (CB-1)	Bermuda
35	Americas	Crosslake Fibre	Canada
36	Americas	Curie	Chile
37	Americas	Gemini Bermuda System	Bermuda
38	Americas	Global Caribbean Network (GCN)	Guadeloupe
39	Americas	Global Caribbean Network (GCN)	Saint Barthelemy
40	Americas	Global Caribbean Network (GCN)	Saint Martin
41	Americas	GlobeNet	Bermuda
42	Americas	GlobeNet	Brazil
43	Americas	GlobeNet	Colombia
44	Americas	GlobeNet	Venezuela
45	Americas	KetchCan1 Submarine Fiber Cable System	Canada
46	Americas	Maya-1	Cayman Islands
47	Americas	Maya-1	Colombia
48	Americas	Maya-1	Costa Rica
49	Americas	Maya-1	Honduras
50	Americas	Maya-1	Mexico
51	Americas	Maya-1	Panama
52	Americas	Monet Cable System	Brazil
53	Americas	Pacific Caribbean Cable System (PCCS)	Aruba
54	Americas	Pacific Caribbean Cable System (PCCS)	British Virgin Islands
55	Americas	Pacific Caribbean Cable System (PCCS)	Colombia

**Attachment A**  
**U.S.-International Submarine Cables – Landing Points**  
**by Region, Cable, and Foreign Landing Point as of December 31, 2019**

No.	Region	Cable Name	Foreign Landing Point
56	Americas	Pacific Caribbean Cable System (PCCS)	Ecuador
57	Americas	Pacific Caribbean Cable System (PCCS)	Panama
58	Americas	Pan American Cable System	Aruba
59	Americas	Pan American Cable System	Chile
60	Americas	Pan American Cable System	Colombia
61	Americas	Pan American Cable System	Ecuador
62	Americas	Pan American Cable System	Panama
63	Americas	Pan American Cable System	Peru
64	Americas	Pan American Cable System	Venezuela
65	Americas	Pan American Crossing (PAC)	Costa Rica
66	Americas	Pan American Crossing (PAC)	Mexico
67	Americas	Pan American Crossing (PAC)	Panama
68	Americas	Pan American Crossing (PAC)	Venezuela
69	Americas	Seabras-1	Brazil
70	Americas	SMPR-1	Sint Maarten
71	Americas	South America-1 (SAM-1)	Argentina
72	Americas	South America-1 (SAM-1)	Brazil
73	Americas	South America-1 (SAM-1)	Chile
74	Americas	South America-1 (SAM-1)	Colombia
75	Americas	South America-1 (SAM-1)	Ecuador
76	Americas	South America-1 (SAM-1)	Guatemala
77	Americas	South America-1 (SAM-1)	Peru
78	Americas	South American Crossing (SAC)	Argentina
79	Americas	South American Crossing (SAC)	Brazil
80	Americas	South American Crossing (SAC)	Chile
81	Americas	South American Crossing (SAC)	Colombia
82	Americas	South American Crossing (SAC)	Panama
83	Americas	South American Crossing (SAC)	Peru
84	Americas	Taino-Carib	British Virgin Islands

No.	Region	Cable Name	Foreign Landing Point
1	Atlantic	AEConnect Cable Network	Iceland
2	Atlantic	AEConnect Cable Network	Ireland
3	Atlantic	Apollo Cable	France
4	Atlantic	Apollo Cable	United Kingdom
5	Atlantic	Atlantic Crossing-1 (AC-1)	Germany
6	Atlantic	Atlantic Crossing-1 (AC-1)	Netherlands
7	Atlantic	Atlantic Crossing-1 (AC-1)	United Kingdom
8	Atlantic	Columbus III	Italy
9	Atlantic	Columbus III	Portugal
10	Atlantic	Columbus III	Spain
11	Atlantic	FLAG Atlantic-1	France
12	Atlantic	FLAG Atlantic-1	United Kingdom
13	Atlantic	GTT Atlantic	Canada
14	Atlantic	GTT Atlantic	Ireland
15	Atlantic	GTT Atlantic	United Kingdom
16	Atlantic	Havfrue	Denmark
17	Atlantic	Havfrue	Ireland
18	Atlantic	Havfrue	Norway
19	Atlantic	MAREA	Spain
20	Atlantic	TAT-14	Denmark
21	Atlantic	TAT-14	France
22	Atlantic	TAT-14	Germany
23	Atlantic	TAT-14	Netherlands

**Attachment A**  
**U.S.-International Submarine Cables – Landing Points**  
**by Region, Cable, and Foreign Landing Point as of December 31, 2019**

No.	Region	Cable Name	Foreign Landing Point
24	Atlantic	TAT-14	United Kingdom
25	Atlantic	TGN Atlantic	United Kingdom
26	Atlantic	Yellow	United Kingdom

No.	Region	Cable Name	Foreign Landing Point
1	Pacific	American Samoa Hawaii Cable	Samoa
2	Pacific	Asia America Gateway (AAG)	Brunei
3	Pacific	Asia America Gateway (AAG)	Hong Kong
4	Pacific	Asia America Gateway (AAG)	Malaysia
5	Pacific	Asia America Gateway (AAG)	Philippines
6	Pacific	Asia America Gateway (AAG)	Singapore
7	Pacific	Asia America Gateway (AAG)	Thailand
8	Pacific	Asia America Gateway (AAG)	Vietnam
9	Pacific	Australia-Japan Cable	Australia
10	Pacific	Australia-Japan Cable	Japan
11	Pacific	FASTER Cable System	Japan
12	Pacific	FASTER Cable System	Taiwan
13	Pacific	GOKI Cable Network	Japan
14	Pacific	HANTRUI	Federated States of Micronesia
15	Pacific	HANTRUI	Republic of the Marshall Islands
16	Pacific	Hawaiki Cable System	Australia
17	Pacific	Hawaiki Cable System	New Zealand
18	Pacific	Honotua Cable System	French Polynesia
19	Pacific	Japan-U.S. Cable Network	Japan
20	Pacific	New Cross-Pacific (NCP)	China
21	Pacific	New Cross-Pacific (NCP)	Japan
22	Pacific	New Cross-Pacific (NCP)	South Korea
23	Pacific	New Cross-Pacific (NCP)	Taiwan
24	Pacific	Pacific Crossing-1 (PC-1)	Japan
25	Pacific	PPC-1	Australia
26	Pacific	PPC-1	Papua New Guinea
27	Pacific	Southeast Asia-US (SEA-US)	Indonesia
28	Pacific	Southeast Asia-US (SEA-US)	Philippines
29	Pacific	Southern Cross Cable Network	Australia
30	Pacific	Southern Cross Cable Network	Fiji
31	Pacific	Southern Cross Cable Network	New Zealand
32	Pacific	Telstra Endeavour	Australia
33	Pacific	TGN Pacific	Japan
34	Pacific	Trans-Pacific Express (TPE) Cable Network	China
35	Pacific	Trans-Pacific Express (TPE) Cable Network	Japan
36	Pacific	Trans-Pacific Express (TPE) Cable Network	South Korea
37	Pacific	Trans-Pacific Express (TPE) Cable Network	Taiwan
38	Pacific	Unity Cable System	Japan
<b>148</b>	<b>Total Landing Points</b>		

Source: FCC records

**Attachment B**  
**U.S.-International Submarine Cables – Landing Points**  
**by Region, Foreign Landing Point, and Cable as of December 31, 2019**

No.	Region	Foreign Landing Point	Cable Name
1	Americas	Argentina	South America-1 (SAm-1)
2	Americas	Argentina	South American Crossing (SAC)
3	Americas	Aruba	Pacific Caribbean Cable System (PCCS)
4	Americas	Aruba	Pan American Cable System
5	Americas	Bahamas	ARCOS-1
6	Americas	Bahamas	Bahamas Internet Cable System (BICS)
7	Americas	Bahamas	BAHAMAS II
8	Americas	Barbados	Antilles Crossing
9	Americas	Belize	ARCOS-1
10	Americas	Bermuda	Challenger Bermuda (CB-1)
11	Americas	Bermuda	Gemini Bermuda System
12	Americas	Bermuda	GlobeNet
13	Americas	Brazil	América Móvil Submarine Cable System (AMX1)
14	Americas	Brazil	Americas II
15	Americas	Brazil	BRUSA
16	Americas	Brazil	GlobeNet
17	Americas	Brazil	Monet Cable System
18	Americas	Brazil	Seabras-1
19	Americas	Brazil	South America-1 (SAm-1)
20	Americas	Brazil	South American Crossing (SAC)
21	Americas	British Virgin Islands	Pacific Caribbean Cable System (PCCS)
22	Americas	British Virgin Islands	Taino-Carib
23	Americas	Canada	AmeriCan-1
24	Americas	Canada	Crosslake Fibre
25	Americas	Canada	KetchCan1 Submarine Fiber Cable System
26	Americas	Cayman Islands	Maya-1
27	Americas	Chile	Curie
28	Americas	Chile	Pan American Cable System
29	Americas	Chile	South America-1 (SAm-1)
30	Americas	Chile	South American Crossing (SAC)
31	Americas	Colombia	América Móvil Submarine Cable System (AMX1)
32	Americas	Colombia	ARCOS-1
33	Americas	Colombia	CFX-1 Cable System (CFX-1)
34	Americas	Colombia	GlobeNet
35	Americas	Colombia	Maya-1
36	Americas	Colombia	Pacific Caribbean Cable System (PCCS)
37	Americas	Colombia	Pan American Cable System
38	Americas	Colombia	South America-1 (SAm-1)
39	Americas	Colombia	South American Crossing (SAC)
40	Americas	Costa Rica	ARCOS-1
41	Americas	Costa Rica	Maya-1
42	Americas	Costa Rica	Pan American Crossing (PAC)
43	Americas	Curaçao	Americas II
44	Americas	Curaçao	ARCOS-1
45	Americas	Dominican Republic	América Móvil Submarine Cable System (AMX1)
46	Americas	Dominican Republic	Antillas 1
47	Americas	Dominican Republic	ARCOS-1
48	Americas	Ecuador	Pacific Caribbean Cable System (PCCS)
49	Americas	Ecuador	Pan American Cable System
50	Americas	Ecuador	South America-1 (SAm-1)
51	Americas	French Guiana	Americas II
52	Americas	Guadeloupe	Global Caribbean Network (GCN)
53	Americas	Guatemala	América Móvil Submarine Cable System (AMX1)
54	Americas	Guatemala	ARCOS-1

**Attachment B**  
**U.S.-International Submarine Cables – Landing Points**  
**by Region, Foreign Landing Point, and Cable as of December 31, 2019**

No.	Region	Foreign Landing Point	Cable Name
55	Americas	Guatemala	South America-1 (SAM-1)
56	Americas	Honduras	ARCOS-1
57	Americas	Honduras	Maya-1
58	Americas	Jamaica	CFX-1 Cable System (CFX-1)
59	Americas	Martinique	Americas II
60	Americas	Mexico	América Móvil Submarine Cable System (AMX1)
61	Americas	Mexico	ARCOS-1
62	Americas	Mexico	Maya-1
63	Americas	Mexico	Pan American Crossing (PAC)
64	Americas	Nicaragua	ARCOS-1
65	Americas	Panama	ARCOS-1
66	Americas	Panama	Maya-1
67	Americas	Panama	Pacific Caribbean Cable System (PCCS)
68	Americas	Panama	Pan American Cable System
69	Americas	Panama	Pan American Crossing (PAC)
70	Americas	Panama	South American Crossing (SAC)
71	Americas	Peru	Pan American Cable System
72	Americas	Peru	South America-1 (SAM-1)
73	Americas	Peru	South American Crossing (SAC)
74	Americas	Saint Barthelemy	Global Caribbean Network (GCN)
75	Americas	Saint Lucia	Antilles Crossing
76	Americas	Saint Martin	Global Caribbean Network (GCN)
77	Americas	Sint Maarten	SMPR-1
78	Americas	Trinidad and Tobago	Americas II
79	Americas	Turks and Caicos Islands	ARCOS-1
80	Americas	Venezuela	Americas II
81	Americas	Venezuela	ARCOS-1
82	Americas	Venezuela	GlobeNet
83	Americas	Venezuela	Pan American Cable System
84	Americas	Venezuela	Pan American Crossing (PAC)

No.	Region	Foreign Landing Point	Cable Name
1	Atlantic	Canada	GTT Atlantic
2	Atlantic	Denmark	Havfrue
3	Atlantic	Denmark	TAT-14
4	Atlantic	France	Apollo Cable
5	Atlantic	France	FLAG Atlantic-1
6	Atlantic	France	TAT-14
7	Atlantic	Germany	Atlantic Crossing-1 (AC-1)
8	Atlantic	Germany	TAT-14
9	Atlantic	Iceland	AEConnect Cable Network
10	Atlantic	Ireland	AEConnect Cable Network
11	Atlantic	Ireland	GTT Atlantic
12	Atlantic	Ireland	Havfrue
13	Atlantic	Italy	Columbus III
14	Atlantic	Netherlands	Atlantic Crossing-1 (AC-1)
15	Atlantic	Netherlands	TAT-14
16	Atlantic	Norway	Havfrue
17	Atlantic	Portugal	Columbus III
18	Atlantic	Spain	Columbus III
19	Atlantic	Spain	MAREA
20	Atlantic	United Kingdom	Apollo Cable
21	Atlantic	United Kingdom	Atlantic Crossing-1 (AC-1)
22	Atlantic	United Kingdom	FLAG Atlantic-1

**Attachment B**  
**U.S.-International Submarine Cables – Landing Points**  
**by Region, Foreign Landing Point, and Cable as of December 31, 2019**

No.	Region	Foreign Landing Point	Cable Name
23	Atlantic	United Kingdom	GTT Atlantic
24	Atlantic	United Kingdom	Yellow
25	Atlantic	United Kingdom	TAT-14
26	Atlantic	United Kingdom	TGN Atlantic

No.	Region	Foreign Landing Point	Cable Name
1	Pacific	Australia	Australia-Japan Cable
2	Pacific	Australia	Hawaiki Cable System
3	Pacific	Australia	PPC-1
4	Pacific	Australia	Southern Cross Cable Network
5	Pacific	Australia	Telstra Endeavour
6	Pacific	Brunei	Asia America Gateway (AAG)
7	Pacific	China	New Cross-Pacific (NCP)
8	Pacific	China	Trans-Pacific Express (TPE) Cable Network
9	Pacific	Federated States of Micronesia	HANTRU1
10	Pacific	Fiji	Southern Cross Cable Network
11	Pacific	French Polynesia	Honotua Cable System
12	Pacific	Hong Kong	Asia America Gateway (AAG)
13	Pacific	Indonesia	Southeast Asia-US (SEA-US)
14	Pacific	Japan	Australia-Japan Cable
15	Pacific	Japan	FASTER Cable System
16	Pacific	Japan	GOKI Cable Network
17	Pacific	Japan	Japan-U.S. Cable Network
18	Pacific	Japan	New Cross-Pacific (NCP)
19	Pacific	Japan	Pacific Crossing-1 (PC-1)
20	Pacific	Japan	TGN Pacific
21	Pacific	Japan	Trans-Pacific Express (TPE) Cable Network
22	Pacific	Japan	Unity Cable System
23	Pacific	Malaysia	Asia America Gateway (AAG)
24	Pacific	New Zealand	Hawaiki Cable System
25	Pacific	New Zealand	Southern Cross Cable Network
26	Pacific	Papua New Guinea	PPC-1
27	Pacific	Philippines	Asia America Gateway (AAG)
28	Pacific	Philippines	Southeast Asia-US System (SEA-US)
29	Pacific	Republic of the Marshall Islands	HANTRU1
30	Pacific	Samoa	American Samoa Hawaii Cable
31	Pacific	Singapore	Asia America Gateway (AAG)
32	Pacific	South Korea	New Cross-Pacific (NCP)
33	Pacific	South Korea	Trans-Pacific Express (TPE) Cable Network
34	Pacific	Taiwan	FASTER Cable System
35	Pacific	Taiwan	New Cross-Pacific (NCP)
36	Pacific	Taiwan	Trans-Pacific Express (TPE) Cable Network
37	Pacific	Thailand	Asia America Gateway (AAG)
38	Pacific	Vietnam	Asia America Gateway (AAG)
<b>148</b>	<b>Total Landing Points</b>		

Source: FCC records



**Attachment C**  
**U.S.-International Submarine Cables – Landing Points**  
**by Number of Landing Points Per Country and Region**  
**as of December 31, 2019**

No. of Landing Points Per Country	Country	Region
9	Colombia	Americas
9	Japan	Pacific
8	Brazil	Americas
7	United Kingdom	Atlantic
6	Panama	Americas
5	Australia	Pacific
5	Venezuela	Americas
4	Chile	Americas
4	Mexico	Americas
3	Bahamas	Americas
3	Bermuda	Americas
3	Canada	Americas
3	Costa Rica	Americas
3	Dominican Republic	Americas
3	Ecuador	Americas
3	France	Atlantic
3	Guatemala	Americas
3	Ireland	Atlantic
3	Peru	Americas
3	Taiwan	Pacific
2	Argentina	Americas
2	Aruba	Americas
2	British Virgin Islands	Americas
2	China	Pacific
2	Curaçao	Americas
2	Denmark	Atlantic
2	Germany	Atlantic
2	Honduras	Americas
2	Netherlands	Atlantic
2	New Zealand	Pacific
2	South Korea	Pacific
2	Spain	Atlantic
2	Philippines	Pacific
1	Barbados	Americas
1	Belize	Americas
1	Brunei	Pacific
1	Canada	Atlantic
1	Cayman Islands	Americas
1	Federated States of Micronesia	Pacific

No. of Landing Points Per Country	Country	Region
1	Fiji	Pacific
1	French Guiana	Americas
1	French Polynesia	Pacific
1	Guadeloupe	Americas
1	Hong Kong	Pacific
1	Iceland	Atlantic
1	Indonesia	Pacific
1	Italy	Atlantic
1	Jamaica	Americas
1	Malaysia	Pacific
1	Martinique	Americas
1	Nicaragua	Americas
1	Norway	Atlantic
1	Papua New Guinea	Pacific
1	Portugal	Atlantic
1	Republic of the Marshall Islands	Pacific
1	Saint Barthelemy	Americas
1	Saint Lucia	Americas
1	Saint Martin	Americas
1	Samoa	Pacific
1	Singapore	Pacific
1	Sint Maarten	Americas
1	Thailand	Pacific
1	Trinidad and Tobago	Americas
1	Turks and Caicos Islands	Americas
1	Vietnam	Pacific

Source: FCC Records

**Frequency Table  
Summarizing Foreign Landing Points Per Country**

No. of Landing Points Per Country	Number of Countries Per Region		
	Americas	Atlantic	Pacific
1	14	5	13
2	5	4	4
3	8	2	1
4	2		
5	1		1
6	1		
7		1	
8	1		
9	1		1

Source: FCC Records