

2020 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 (2020)

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

No.	Entities	Submarine Cable Operator Reports	Submarine Cable Capacity Holder Reports
48	KT Corporation		✓
49	Latam Telecommunications, L.L.C.	✓	✓
50	Ledcor Industries (USA) Inc.	✓	
51	Level 3 Communications, LLC	✓	✓
52	Marine Cable Corporation		✓
53	Megaport (USA), Inc.		✓
54	Microsoft Infrastructure Group, LLC		✓
55	Microsoft Operations Pte Ltd	✓	✓
56	Network i2i Limited		✓
57	New Century InfoComm Tech Co., Ltd.		✓
58	NTT America, Inc.		✓
59	NTT Ltd Japan Corporation	✓	✓
60	ONATI Honotua Division (U.S.)	✓	✓
61	Optibulk Havfrue AS		✓
62	Orange Business Services U.S. Inc		✓
63	Pacific Carriage Limited	✓	✓
64	Pacific Carriage Limited Inc.	✓	
65	PCCW Global, Inc.		✓
66	PC Landing Corp.	✓	✓
67	PLDT Inc.		✓
68	PLDT (US) Ltd.		✓
69	PPC I Limited	✓	✓
70	PREPA Networks, LLC		✓
71	PTI Pacifica Inc.		✓
72	PT Telekomunikasi Indonesia Internasional		✓
73	Puerto Rico Telephone Company, Inc.		✓
74	Rogers Communications Partnership		✓
75	RTI Connectivity Pte. Ltd.	✓	✓
76	Seabras 1 USA, LLC	✓	✓
77	Singapore Telecom USA, Inc.		✓
78	SMITCOMS, Inc.	✓	✓
79	SoftBank Corp.		✓
80	Sprint Communications, Inc.	✓	✓
81	StarHub Ltd		✓
82	TA Resources N.V.		✓
83	Tata Communications (America) Inc.	✓	✓
84	TeleGuam Holdings, LLC		✓
85	Telekom Malaysia Bhd		✓
86	Telia Carrier U.S. Inc.		✓
87	Telstra Incorporated	✓	✓
88	Telxius Cable USA, Inc.	✓	✓
89	TI Sparkle North America, Inc.		✓
90	Truestone, LLC	✓	✓
91	UNIFIED NATIONAL NETWORKS		✓
92	Verizon Business Global LLC dba Verizon Business	✓	✓
93	VNPT		✓
94	Zayo Group, LLC		✓
Total		39	91

Table 2
Number of Reports Filed by Submarine Cable Operators (2020)

No.	Entities	Cable Reports
1	American Samoa Hawaii Cable, LLC	1
2	Antilles Crossing-St. Croix, Inc.	1
3	Aqua Comms (Americas) Inc	2
4	ARCOS-1 USA, Inc.	1
5	AT&T Corp.	8
6	Australia-Japan Cable (Guam) Limited	1
7	Cable and Wireless Americas Systems Inc.	1
8	Caribbean Crossings Ltd.	1
9	Cedar Cable Ltd.	1
10	City of Ketchikan	1
11	Columbus Networks USA, Inc.	1
12	Crosslake Fiber USA LP	1
13	CWC New Cayman Ltd.	1
14	FLAG Telecom Limited	1
15	Global Caribbean Network	1
16	Globenet Cabos Sumarinos America, Inc.	1
17	GTT Americas LLC	1
18	GU Holdings Inc.	6
19	Hawaiian Telcom Services Company, Inc.	1
20	Hawaiki Submarine Cable USA LLC	1
21	Latam Telecommunications, L.L.C.	1
22	Ledcor Industries (USA) Inc.	1
23	Level 3 Communications, LLC	4
24	Microsoft Operations Pte Ltd	1
25	NTT Ltd Japan Corporation	1
26	ONATI Honotua Division (U.S.)	1
27	Pacific Carriage Limited	1
28	Pacific Carriage Limited Inc.	1
29	PC Landing Corp.	1
30	PPC 1 Limited	1
31	RTI Connectivity Pte. Ltd.	1
32	Seabras 1 USA, LLC	1
33	SMITCOMS, Inc.	1
34	Sprint Communications, Inc.	1
35	Tata Communications (America) Inc.	2
36	Telstra Incorporated	1
37	Telxius Cable USA, Inc.	4
38	Truestone, LLC	1
39	Verizon Business Global LLC dba Verizon Business	1
Total		59

Table 3
Submarine Cable Operator Reports (in Gbps) (2020/2022)

No.	Cable System	Available Capacity as of 12/31/2020	Planned Capacity as of 12/31/2022
	Americas Region		
1	America Movil Submarine Cable System (AMX1)	90,000.0	90,000.0
2	AmeriCan-1	*	*
3	Americas II	*	*
4	Antillas 1	*	*
5	Antilles Crossing	320.0	420.0
6	ARCOS-1	*	*
7	BAHAMAS II	*	*
8	Bahamas Internet Cable System (BICS)	706.0	906.0
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)	*	*
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	*	*
22	Pan American Crossing (PAC)	5,310.0	6,010.0
23	Seabras-1	72,000.0	72,000.0
24	SMPR-1	*	*
25	South America-1 (SAm-1)	*	*
26	South American Crossing (SAC)	15,370.0	17,580.0
27	Taino-Carib	*	*
	Total Americas Region:	3,150,216.5	3,946,686.5
	Atlantic Region		
1	AEConnect Cable Network	*	*
2	Apollo Cable	*	*
3	Atlantic Crossing-1 (AC-1)	4,860.0	4,860.0
4	Dunant	*	*
5	FLAG Atlantic-1	*	*
6	GTT Atlantic	*	*
7	Havfrue	*	*
8	MAREA	*	*
9	TGN Atlantic	*	*
10	Yellow	8,640.0	10,740.0
	Total Atlantic Region:	546,970.0	613,270.0

No.	Cable System	Available Capacity as of 12/31/2020	Planned Capacity as of 12/31/2022
	Pacific Region		
1	Asia America Gateway (AAG)	*	*
2	Australia-Japan Cable	10,360.0	10,360.0
3	FASTER Cable System	*	*
4	GOKI Cable Network	*	*
5	HANTRU1	*	*
6	Hawaiki Cable System	*	*
7	Honotua Cable System	40.0	40.0
8	Japan-Guam-Australia (JGA) North System (JGA North)	*	*
9	Japan-Guam-Australia (JGA) South System (JGA South)	*	*
10	Japan-U.S. Cable Network	*	*
11	JUPITER	*	*
12	New Cross-Pacific (NCP)	*	*
13	Pacific Crossing-1 (PC-1)	*	*
14	PPC-1	5,000.0	8,100.0
15	Samoa American Samoa Cable**	*	*
16	Southeast Asia-US (SEA-US)	*	*
17	Southern Cross Cable Network	*	*
18	Southern Cross NEXT	0.0	3,000.0
19	Telstra Endeavour	*	*
20	TGN Pacific	*	*
21	Trans-Pacific Express (TPE) Cable Network	6,610.0	6,710.0
22	Unity Cable System	*	*
	Total Pacific Region:	464,560.0	506,632.0
	All Regions		
	Americas	3,150,216.5 (75.7%)	3,946,686.5 (77.9%)
	Atlantic	546,970.0 (13.1%)	613,270.0 (12.1%)
	Pacific	464,560.0 (11.2%)	506,632.0 (10.0%)
	Total	4,161,746.5 (100%)	5,066,588.5 (100%)
<p>* Filer requested confidential treatment of its Submarine Cable Operator Report data. Regional totals include both public and confidential data.</p> <p>** The name changed from American Samoa-Hawaii Cable to Samoa American Samoa Cable.</p>			

CABLES	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Planned 2022
GROWTH RATE RELATIVE TO PREVIOUS YEAR															
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%	29.4%	
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%	51.0%	
Pacific		121.9%	16.6%	40.4%	6.2%	20.0%	39.4%	29.2%	36.7%	72.2%	23.8%	166.1%	5.0%	78.1%	
Total		69.3%	29.4%	32.9%	19.2%	20.0%	29.1%	56.1%	31.9%	112.8%	61.5%	182.2%	163.2%	36.1%	
COMPOUND ANNUAL GROWTH RATE FOR 2007-2020															
Americas	86.5%														
Atlantic	41.5%														
Pacific	44.6%														
Total	58.1%														
FORECAST COMPOUND ANNUAL GROWTH RATE (2020-2022)															
Americas	11.9%														
Atlantic	5.9%														
Pacific	4.4%														
Total	10.3%														

* Filer requested confidential treatment of its Submarine Cable Operator Report data. Regional totals include both public and confidential data.

** On July 16, 2020, the American Samoa-Hawaii segment of the American Samoa Hawaii Cable System was retired and taken out of commercial service. The Samoa-American Samoa segment remains in service and is now known as the Samoa American Samoa Cable. The name changed from American Samoa-Hawaii Cable to Samoa American Samoa Cable.

*** We note that: (1) data as of 2007 to 2013 were extracted from the 2013 Section 43.82 Circuit Status Data Report; (2) TAT-14 and Columbus III were retired from service on December 15, 2020 and December 18, 2020, respectively; (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; (4) the large recent increase in Americas' capacity is strongly influenced by an increase in capacity to Canada; and (5) 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 fit and unit 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 Rcd 12517 (2018); Filing Manual at 6, para. 28.

**Table 5
Submarine Cable Capacity Holder Reports by Region (2020)**

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	3,051,025.0	-93,051.9	-24,161.2	2,933,811.9	86,076.8	2,847,735.1	2.9%	97.1%
Atlantic	559,013.0	-62,237.7	-14,189.8	482,585.5	243,706.1	238,879.4	50.5%	49.5%
Pacific	484,058.3	-7,338.9	-10,294.2	466,425.2	210,136.6	256,288.6	45.1%	54.9%
Total	4,094,096.3	-162,628.5	-48,645.2	3,882,822.6	539,919.5	3,342,903.1	13.9%	86.1%

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
Comparison of Capacities Reported from Cable Operator Reports and Capacity Holder Reports (2020)

Region	Submarine Cable Operator Reports (Gbps) (Available Capacity)	Submarine Cable Capacity Holder Reports (Gbps) (Owned Capacity)	Discrepancy	Percent Captured by Holder Reports	Percent Not Captured by Holder Reports
Americas	3,150,216.5	3,051,025.0	99,191.5	96.9%	3.1%
Atlantic	546,970.0	559,013.0	-12,043.0	102.2%	-2.2%
Pacific	464,560.0	484,058.3	-19,498.3	104.2%	-4.2%
Total	4,161,746.5	4,094,096.3	67,650.2	98.4%	1.6%

Attachment A
U.S.-International Submarine Cables – Landing Points
by Region, Cable, and Foreign Landing Point as of December 31, 2020

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

Attachment A
U.S.-International Submarine Cables – Landing Points
by Region, Cable, and Foreign Landing Point as of December 31, 2020

No.	Region	Cable Name	Foreign Landing Point
55	Americas	Pacific Caribbean Cable System (PCCS)	Colombia
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	Dunant	France
9	Atlantic	FLAG Atlantic-1	France
10	Atlantic	FLAG Atlantic-1	United Kingdom
11	Atlantic	GTT Atlantic	Canada
12	Atlantic	GTT Atlantic	Ireland
13	Atlantic	GTT Atlantic	United Kingdom
14	Atlantic	Havfrue	Denmark
15	Atlantic	Havfrue	Ireland
16	Atlantic	Havfrue	Norway
17	Atlantic	MAREA	Spain
18	Atlantic	TGN Atlantic	United Kingdom
19	Atlantic	Yellow	United Kingdom

Attachment A
U.S.-International Submarine Cables – Landing Points
by Region, Cable, and Foreign Landing Point as of December 31, 2020

No.	Region	Cable Name	Foreign Landing Point
1	Pacific	Asia America Gateway (AAG)	Brunei
2	Pacific	Asia America Gateway (AAG)	HongKong
3	Pacific	Asia America Gateway (AAG)	Malaysia
4	Pacific	Asia America Gateway (AAG)	Philippines
5	Pacific	Asia America Gateway (AAG)	Singapore
6	Pacific	Asia America Gateway (AAG)	Thailand
7	Pacific	Asia America Gateway (AAG)	Vietnam
8	Pacific	Australia-Japan Cable	Australia
9	Pacific	Australia-Japan Cable	Japan
10	Pacific	FASTER Cable System	Japan
11	Pacific	FASTER Cable System	Taiwan
12	Pacific	GOKI Cable Network	Japan
13	Pacific	HANTRU 1	Federated States of Micronesia
14	Pacific	HANTRU 1	Republic of the Marshall Islands
15	Pacific	Hawaiki Cable System	Australia
16	Pacific	Hawaiki Cable System	New Zealand
17	Pacific	Honotua Cable System	French Polynesia
18	Pacific	Japan-Guam-Australia (JGA) North System (JGA North)	Japan
19	Pacific	Japan-Guam-Australia (JGA) South System (JGA South)	Australia
20	Pacific	Japan-U.S. Cable Network	Japan
21	Pacific	JUPITER	Japan
22	Pacific	JUPITER	Philippines
23	Pacific	New Cross-Pacific (NCP)	China
24	Pacific	New Cross-Pacific (NCP)	Japan
25	Pacific	New Cross-Pacific (NCP)	South Korea
26	Pacific	New Cross-Pacific (NCP)	Taiwan
27	Pacific	Pacific Crossing-1 (PC-1)	Japan
28	Pacific	PPC-1	Australia
29	Pacific	PPC-1	Papua New Guinea
30	Pacific	Samoa American Samoa Cable System	Samoa
31	Pacific	Southeast Asia-US (SEA-US)	Indonesia
32	Pacific	Southeast Asia-US (SEA-US)	Philippines
33	Pacific	Southern Cross Cable Network	Australia
34	Pacific	Southern Cross Cable Network	Fiji
35	Pacific	Southern Cross Cable Network	New Zealand
36	Pacific	Southern Cross NEXT	Australia
37	Pacific	Southern Cross NEXT	Fiji
38	Pacific	Southern Cross NEXT	Kiribati
39	Pacific	Southern Cross NEXT	New Zealand
40	Pacific	Southern Cross NEXT	Samoa
41	Pacific	Southern Cross NEXT	Tokelau
42	Pacific	Telstra Endeavour	Australia
43	Pacific	TGN Pacific	Japan
44	Pacific	Trans-Pacific Express (TPE) Cable Network	China
45	Pacific	Trans-Pacific Express (TPE) Cable Network	Japan
46	Pacific	Trans-Pacific Express (TPE) Cable Network	South Korea
47	Pacific	Trans-Pacific Express (TPE) Cable Network	Taiwan
48	Pacific	Unity Cable System	Japan
151	Total Landing Points		

Source: FCC records

Attachment B
U.S.-International Submarine Cables – Landing Points
by Region, Foreign Landing Point, and Cable as of December 31, 2020

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	Ketchikan 1 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, 2020

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	France	Apollo Cable
4	Atlantic	France	Dunant
5	Atlantic	France	FLAG Atlantic-1
6	Atlantic	Germany	Atlantic Crossing-1 (AC-1)
7	Atlantic	Iceland	AEConnect Cable Network
8	Atlantic	Ireland	AEConnect Cable Network
9	Atlantic	Ireland	GTT Atlantic
10	Atlantic	Ireland	Havfrue
11	Atlantic	Netherlands	Atlantic Crossing-1 (AC-1)
12	Atlantic	Norway	Havfrue
13	Atlantic	Spain	MAREA
14	Atlantic	United Kingdom	Apollo Cable
15	Atlantic	United Kingdom	Atlantic Crossing-1 (AC-1)
16	Atlantic	United Kingdom	FLAG Atlantic-1
17	Atlantic	United Kingdom	GTT Atlantic
18	Atlantic	United Kingdom	Yellow
19	Atlantic	United Kingdom	TGN Atlantic

Attachment B
U.S.-International Submarine Cables – Landing Points
by Region, Foreign Landing Point, and Cable as of December 31, 2020

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

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, 2020

No. of Landing Points Per Country	Country	Region
11	Japan	Pacific
9	Colombia	Americas
8	Brazil	Americas
7	Australia	Pacific
6	Panama	Americas
6	United Kingdom	Atlantic
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	New Zealand	Pacific
3	Peru	Americas
3	Philippines	Pacific
3	Taiwan	Pacific
2	Argentina	Americas
2	Aruba	Americas
2	British Virgin Islands	Americas
2	China	Pacific
2	Curaçao	Americas
2	Fiji	Pacific
2	Honduras	Americas
2	Samoa	Pacific
2	South Korea	Pacific
1	Barbados	Americas
1	Belize	Americas
1	Brunei	Pacific
1	Canada	Atlantic
1	Cayman Islands	Americas
1	Denmark	Atlantic
1	Federated States of Micronesia	Pacific
1	French Guiana	Americas

No. of Landing Points Per Country	Country	Region
1	French Polynesia	Pacific
1	Germany	Atlantic
1	Guadeloupe	Americas
1	Hong Kong	Pacific
1	Iceland	Atlantic
1	Indonesia	Pacific
1	Jamaica	Americas
1	Kiribati	Pacific
1	Malaysia	Pacific
1	Martinique	Americas
1	Netherlands	Atlantic
1	Nicaragua	Americas
1	Norway	Atlantic
1	Papua New Guinea	Pacific
1	Republic of the Marshall Islands	Pacific
1	Saint Barthelemy	Americas
1	Saint Lucia	Americas
1	Saint Martin	Americas
1	Singapore	Pacific
1	Sint Maarten	Americas
1	Spain	Atlantic
1	Thailand	Pacific
1	Tokelau	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	7	13
2	5		4
3	8	2	3
4	2		
5	1		
6	1	1	
7			1
8	1		
9	1		
10			
11			1

Source: FCC Records