Input Summary for CLEC DSO Cost Disadvantage Analysis

ID	Group	Detail	Tools	Default	Source	Notes
1	Global	Maximum Nodes per Ring	Facility	6	Engineering Practice	
2	Global	Regenerator Spacing, mi	Facility	57	Technical Specification	
3	Global	CLLI Rejection Threshold, mi	Facility	115	Modeling Assumption	
4	Financial Inputs	Cost of debt	DS0, Transport	0.088	Commission UNE decision plus 2 basis points	
5	Financial Inputs	Cost of equity	DS0, Transport	0.1525	Commission UNE decision plus 2 basis points	
6	Financial Inputs	% debt	DS0, Transport	0.4	Commission UNE decision	
7	Financial Inputs	Income tax rate	DS0, Transport	0.4036	Composite state and federal	
8	Financial Inputs	Other Taxes	DS0, Transport	0.033682	Workpaper: Other Taxes	
9	Financial Inputs	Labor Rate for Type 1 - Engineer	DS0, Transport	$50	Engineering Input	Labor rate indexed for KY by labor factor populated in model
10	Financial Inputs	Labor Rate for Type 2 - Outside Technician	DS0, Transport	$50	Engineering Input	Labor rate indexed for KY by labor factor populated in model
11	Financial Inputs	Labor Rate for Type 3 - Inside Technician	DS0, Transport	$50	Engineering Input	Labor rate indexed for KY by labor factor populated in model
12	Financial Inputs	Labor Rate for Type 4	DS0, Transport	$0	Not Used	
13	Financial Inputs	Labor Rate for Type 5	DS0, Transport	$0	Not Used	
14	Financial Inputs	Accelerated Depreciation	DS0, Transport	TRUE	Modeling Assumption	
15	Financial Inputs	Regulatory Depreciation Method	DS0, Transport	ELG	Modeling Assumption	
16	Financial Inputs	Digital Circuit Equipment - Economic Lives	DS0, Transport	9		
17	Financial Inputs	Collocation Study Period	DS0, Transport	25	Modeling Assumption	
18	Financial Inputs	Aerial Cable - Non-Metallic - Economic Lives	Transport	20		
19	Financial Inputs	Underground - Non-Metallic - Economic Lives	Transport	20		
20	Financial Inputs	Buried - Non-Metallic - Economic Lives	Transport	20		
21	Financial Inputs	Poles - Economic Lives	Transport	36		
22	Financial Inputs	Conduit Systems - Economic Lives	Transport	55		
23	Financial Inputs	Switching - Economic Lives	DS0	0		
24	Financial Inputs	Hot Cut Study Period	DS0	25	Modeling Assumption	
25	Financial Inputs	Digital Circuit Equipment - Net Salvage Percent	DS0, Transport	0		
26	Financial Inputs	Aerial Cable - Non-Metallic - Net Salvage Percent	Transport	-0.14		
27	Financial Inputs	Underground - Non-Metallic - Net Salvage Percent	Transport	-0.08		

ID	Group	Detail	Tools	Default	Source	Notes
28	Financial Inputs	Buried - Non-Metallic - Net Salvage Percent	Transport	-0.07		
29	Financial Inputs	Poles - Net Salvage Percent	Transport	-0.55		
30	Financial Inputs	Conduit Systems - Net Salvage Percent	Transport	-0.1		
31	Financial Inputs	Switching - Net Salvage Percent	DS0	0		
32	Financial Inputs	Aerial - Maintenance	Transport	0.0073	FCC Synthesis Model	RFCC_expense_wirecenter_October1999.xls -- TAB "96 Actuals", cell H44
33	Financial Inputs	Buried - Maintenance	Transport	0.0084	FCC Synthesis Model	RFCC_expense_wirecenter_October1999.xls -- TAB "96 Actuals", cell H46
34	Financial Inputs	Underground - Maintenance	Transport	0.0061	FCC Synthesis Model	RFCC_expense_wirecenter_October1999.xls -- TAB "96 Actuals", cell H45
35	Financial Inputs	Circuit Equipment Maintenance	Transport	0.02	FCC Synthesis Model	RFCC_expense_wirecenter_October1999.xls -- TAB "96 Actuals", cell H31
36	Financial Inputs	Equipment Maintenance Factor	DS0	0.02	FCC Synthesis Model	
37	Ramp-Up Inputs	Starting share achieved	DS0	0%	Modeling Assumption	
38	Ramp-Up Inputs	Period 1 End at Beginning of Year	DS0	2	Modeling Assumption	
39	Ramp-Up Inputs	EOP Share at end of Period 1	DS0	40%	Modeling Assumption	
40	Ramp-Up Inputs	Period 2 End at Beginning of Year	DS0	3	Modeling Assumption	
41	Ramp-Up Inputs	EOP Share at end of Period 2	DS0	60%	Modeling Assumption	
42	Ramp-Up Inputs	End of Ramp-Up at Beginning of Year	DS0	5	Modeling Assumption	
43	Ramp-Up Inputs	Business Churn	DS0	0.046		AT&T Corporation - A Case for Consumer Services, Banc of America Equity Research, April 30, 2003, page 10-11.
44	Ramp-Up Inputs	Residential Churn	DS0	0.046		AT&T Corporation - A Case for Consumer Services, Banc of America Equity Research, April 30, 2003, page 10-11.
45	General Inputs	Aerial Incremental Fiber (Per Foot)	Transport	$0.0294	Workpaper: Installed Fiber Cable Costs	
46	General Inputs	Buried Incremental Fiber (Per Foot)	Transport	$0.0294	Workpaper: Installed Fiber Cable Costs	
47	General Inputs	Underground Incremental Fiber(Per Foot)	Transport	$0.0299	Workpaper: Installed Fiber Cable Costs	
48	General Inputs	Fixed component of fiber cost	Transport	$0.3799	Workpaper: Installed Fiber Cable Costs	
49	General Inputs	Business Case Option	Transport	No	Modeling Assumption	
50	Collocation Inputs	Satellite Collocation Breakage?	DS0, Transport	Yes	Modeling Assumption	
51	Collocation Inputs	AC Power per feed (AC amps)	DS0, Transport	20	Modeling Assumption	
52	Collocation Inputs	AC Power Feeds Required	DS0, Transport	2	Modeling Assumption	
53	Collocation Inputs	DC Power Feeds Required	DS0, Transport	2	Modeling Assumption	
54	Collocation Inputs	Number of Fibers in DS0 Entrance Facility	DS0	12	Modeling Assumption	
55	Collocation Inputs	Fiber Transport Cable Size	Transport	48	Modeling Assumption	
56	Collocation Inputs	DC load amp:fuse amp conversion factor	DS0, Transport	1.5	Modeling Assumption	

ID	Group	Detail	Tools	Default	Source	Notes
57	Collocation Inputs	DC average load:peak load conversion factor	DS0, Transport	1	Modeling Assumption	
58	Collocation Inputs	Maximum 2W cable size	DS0, Transport	600	Modeling Assumption	
59	Collocation Inputs	Maximum DS1 cable size	DS0, Transport	56	Modeling Assumption	
60	Collocation Inputs	Maximum DS3 cable size	DS0, Transport	48	Modeling Assumption	
61	Collocation Inputs	Minimum Square Footage Requirement (Node)	DS0	300	Modeling Assumption	
62	Collocation Inputs	Minimum Collocation Space (Node)	DS0, Transport	300	Modeling Assumption	
63	Collocation Inputs	Square feet per frame (Node)	DS0, Transport	11.5	Vendor Documentation	
64	Collocation Inputs	Number of frames for initial 100 square feet (Satellite)	DS0	6	Modeling Assumption	
65	Collocation Inputs	Number of frames for 100-200 square feet (Satellite)	DS0	10	Modeling Assumption	
66	Collocation Inputs	Number of frames for 200-300 square feet(Satellite)	DS0	10	Modeling Assumption	
67	Collocation Inputs	Minimum Power Requirement (Node)	DS0, Transport	200	Modeling Assumption	
68	Customer Transfer Costs	CLEC Customer Transfer Costs	DS0	$16.61	Assumption	
69	Customer Transfer Costs	CLEC Cust Transfer Cost Forward Looking Adj	DS0	$8.61	Assumption	
70	General DLC Inputs	DLC 1 - Maximum lines per DLC	DS0	2016	Vendor Documentation	Based on Alcatel Litespan 2000.
71	General DLC Inputs	DLC 1 - Maximum lines per base unit frame	DS0	672	Vendor Documentation	
72	General DLC Inputs	DLC 1 - Max Lines per subsequent frames (to max capacity of base)	DS0	896	Vendor Documentation	
73	General DLC Inputs	DLC 1 - Minimum lines per sub module within frame	DS0	224	Vendor Documentation	
74	General DLC Inputs	DLC 1 - Engineered DLC Capacity	DS0	90%	Engineering Input	
75	General DLC Inputs	DLC 1 - Type of Transport Interface (DS3 or DS1)	DS0	DS3	Vendor Documentation	
76	General DLC Inputs	DLC 1 - Maximum Lines per card	DS0	4	Vendor Documentation	
77	General DLC Inputs	DLC 1 - Designed Terminated Lines/Active Line (concentration)	DS0	4	Vendor Documentation/ Engineering Input	
78	General DLC Inputs	DLC 1- Number of RTs per COT (do not exceed 5)	DS0	5	Vendor Documentation	
79	General DLC Inputs	DLC 1 - Traditional POTS Line Card Cost	DS0	$180	Engineering Input (RHK market research study)	
80	General DLC Inputs	DLC 1 - Range extended Line Card Cost	DS0	$276	Engineering Input	
81	General DLC Inputs	DLC 1 - DS1/U Interface Card	DS0	$288	Engineering Input	
82	General DLC Inputs	DLC 1 - POTS Line Card Power Consumption (Watts)	DS0	1.98	Vendor Documentation	
83	General DLC Inputs	DLC 1 - Range Extended Line Card Power Consumption (Watts)	DS0	4.59	Vendor Documentation	
84	General DLC Inputs	DLC 1 - Line Power (Volts)	DS0	48	Vendor Documentation	
85	General DLC Inputs	DLC 2 - Maximum lines per DLC	DS0	120	Vendor Documentation	Based on AFC UMC-1000.

ID	Group	Detail	Tools	Default	Source	Notes
86	General DLC Inputs	DLC 2 - Maximum lines per base unit frame	DS0	600	Vendor Documentation/ Engineering Input	
87	General DLC Inputs	DLC 2 - Max Lines per subsequent frames (to max capacity of base)	DS0	0	Vendor Documentation	
88	General DLC Inputs	DLC 2 - Minimum lines per sub module within frame	DS0	120	Vendor Documentation	
89	General DLC Inputs	DLC 2 - Engineered DLC Capacity	DS0	90%	Engineering Input	
90	General DLC Inputs	DLC 2 - Type of Transport Interface (DS3 or DS1)	DS0	DS1	Vendor Documentation	
91	General DLC Inputs	DLC 2 - Maximum Lines per card	DS0	6	Vendor Documentation	
92	General DLC Inputs	DLC 2 - Designed Terminated Lines/Active Line (concentration)	DS0	4	Vendor Documentation/Engineering Input	
93	General DLC Inputs	DLC 2- Number of RTs per COT (do not exceed 5)	DS0	5	Vendor Documentation/Engineering Input	
94	General DLC Inputs	DLC 2 - Traditional POTS Line Card Cost	DS0	$270	Engineering Input	
95	General DLC Inputs	DLC 2 - Range extended Line Card Cost	DS0	$414	Engineering Input	
96	General DLC Inputs	DLC 2 - DS1/U Interface Card	DS0	$288	Engineering Input	
97	General DLC Inputs	DLC 2 - POTS Line Card Power Consumption (Watts)	DS0	2.9	Vendor Documentation	
98	General DLC Inputs	DLC 2 - Range Extended Line Card Power Consumption (Watts)	DS0	3.2	Vendor Documentation	
99	General DLC Inputs	DLC 2 - Line Power (Volts)	DS0	48	Vendor Documentation	
100	General DLC Inputs	DLC 3 - Maximum lines per DLC	DS0	24	Vendor Documentation/Engineering Input	Based on AFC UMC-1000.
101	General DLC Inputs	DLC 3 - Maximum lines per base unit frame	DS0	600	Vendor Documentation/Engineering Input	
102	General DLC Inputs	DLC 3 - Max Lines per subsequent frames (to max capacity of base)	DS0	0	Vendor Documentation	
103	General DLC Inputs	DLC 3 - Minimum lines per sub module within frame	DS0	24	Vendor Documentation/Engineering Input	
104	General DLC Inputs	DLC 3 - Engineered DLC Capacity	DS0	90%	Engineering Input	
105	General DLC Inputs	DLC 3 - Type of Transport Interface (DS3 or DS1)	DS0	DS1	Vendor Documentation/Engineering Input	
106	General DLC Inputs	DLC 3 - Lines per card	DS0	6	Vendor Documentation	
107	General DLC Inputs	DLC 3 - Designed Terminated Lines/Active Line (concentration)	DS0	4	Vendor Documentation/Engineering Input	
108	General DLC Inputs	DLC 3- Number of RTs per COT (do not exceed 5)	DS0	5	Vendor Documentation/Engineering Input	
109	General DLC Inputs	DLC 3 - Traditional POTS Line Card Cost	DS0	$270	Engineering Input	
110	General DLC Inputs	DLC 3 - Range extended Line Card Cost	DS0	$414	Engineering Input	
111	General DLC Inputs	DLC 3 - DS1/U Interface Card	DS0	$288	Engineering Input	
112	General DLC Inputs	DLC 3 - POTS Line Card Power Consumption (Watts)	DS0	2.9	Vendor Documentation	
113	General DLC Inputs	DLC 3 - Range Extended Line Card Power Consumption (Watts)	DS0	3.2	Vendor Documentation	
114	General DLC Inputs	DLC 3 - Line Power (Volts)	DS0	48	Vendor Documentation	

ID	Group	Detail	Tools	Default	Source	Notes
115	DLC type 1	For Maximum Lines Per DLC Line Increment - Firmware & Common Plug Ins	DS0	$12,600	Engineering Input	SONET Firmware + CCA Common Cards
116	DLC type 1	For Maximum Lines Per DLC Line Increment - Electrical Transceiver	DS0	$800	Engineering Input	DS-3 interface
117	DLC type 1	For Maximum Lines Per DLC Line Increment - Channel Bank Assembly & Commons	DS0	$2,166	Engineering Input	CBA + Commons
118	DLC type 1	For Maximum Lines Per DLC Line Increment - DSX-1 and Cabling	DS0	$800	Engineering Input	
119	DLC type 1	For Maximum Lines Per DLC Line Increment - Test Access System & Equipment	DS0	$0	Engineering Input	Included in Firmware & CBA Commons
120	DLC type 1	For Maximum Lines Per DLC Line Increment - Hours	DS0	12	Engineering Input	
121	DLC type 1	For Maximum Lines Per DLC Line Increment - Place, Wire, Turn Up & Test Equipment - Hours	DS0	7.5	Engineering Input	
122	DLC type 1	For Maximum Lines Per DLC Line Increment - Install & Cross Connect DSX - Hours	DS0	1.75	Engineering Input	
123	DLC type 1	For Maximum Lines Per DLC Line Increment - Labor Type	DS0	1	Engineering Input	
124	DLC type 1	For Maximum Lines Per DLC Line Increment - Labor Type	DS0	2	Engineering Input	
125	DLC type 1	For Maximum Lines Per DLC Line Increment - Labor Type	DS0	2	Engineering Input	
126	DLC type 1	For Maximum lines per base unit frame - Time Slot Interchangers	DS0	$2,200	Engineering Input	
127	DLC type 1	For Minimum lines per sub module within frame - Channel Bank Assembly, Commons & Cables	DS0	$2,166	Engineering Input	
128	DLC type 1	For Minimum lines per sub module within frame - Place CBA, Place and Terminate DS0 Cabling -	DS0	6	Engineering Input	
129	DLC type 1	For Minimum lines per sub module within frame - Place CBA, Place and Terminate DS0 Cabling -	DS0	2	Engineering Input	
130	DLC type 1	Transport Directionality (1=one direction, 2=two direction)	DS0	1	Engineering Input	
131	DLC type 1	Transport Protection (1=unprotected, 2=protected)	DS0	1	Engineering Input	
132	DLC type 2	For Maximum Lines Per DLC Line Increment - Firmware & Common Plug Ins	DS0	$4,200	Engineering Input	
133	DLC type 2	For Maximum Lines Per DLC Line Increment - Electrical Transceiver	DS0	$288	Engineering Input	
134	DLC type 2	For Maximum Lines Per DLC Line Increment - Channel Bank Assembly & Commons	DS0	$0	Vendor Documentation	
135	DLC type 2	For Maximum Lines Per DLC Line Increment - DSX-1 and Cabling	DS0	$800	Engineering Input	
136	DLC type 2	For Maximum Lines Per DLC Line Increment - Test Access System & Equipment	DS0	$0	Engineering Input	Included in Firmware & CBA Commons
137	DLC type 2	For Maximum Lines Per DLC Line Increment - M1/3 Multiplexer	DS0	$3,000	Engineering Input	
138	DLC type 2	For Maximum Lines Per DLC Line Increment - Engineering (hrs.) - Hours	DS0	12	Engineering Input	
139	DLC type 2	For Maximum Lines Per DLC Line Increment - Place, Wire, Turn Up & Test DLC Equipment -	DS0	7.5	Engineering Input	
140	DLC type 2	For Maximum Lines Per DLC Line Increment - Install & Cross Connect DSX - Hours	DS0	1.5	Engineering Input	
141	DLC type 2	For Maximum Lines Per DLC Line Increment - Place CBA, Place and Terminate DS0 Cabling -	DS0	3	Engineering Input	
142	DLC type 2	For Maximum Lines Per DLC Line Increment - Place, Wire, Turn Up & Test M1/3 Multiplexer	DS0	1	Engineering Input	
143	DLC type 2	For Maximum Lines Per DLC Line Increment - Engineering (hrs.) - Labor Type	DS0	1	Engineering Input	

ID	Group	Detail	Tools	Default	Source	Notes
144	DLC type 2	For Maximum Lines Per DLC Line Increment - Place, Wire, Turn Up & Test DLC Equipment -	DS0	2	Engineering Input	
145	DLC type 2	For Maximum Lines Per DLC Line Increment - Install & Cross Connect DSX - Labor Type	DS0	2	Engineering Input	
146	DLC type 2	For Maximum Lines Per DLC Line Increment - Place CBA, Place and Terminate DS0 Cabling -	DS0	2	Engineering Input	
147	DLC type 2	For Maximum Lines Per DLC Line Increment - Place, Wire, Turn Up & Test M1/3 Multiplexer	DS0	2	Engineering Input	
148	DLC type 3	For Maximum Lines Per DLC Line Increment - Firmware & Common Plug Ins	DS0	$4,200	Engineering Input	
149	DLC type 3	For Maximum Lines Per DLC Line Increment - Electrical Transceiver	DS0	$288	Engineering Input	
150	DLC type 3	For Maximum Lines Per DLC Line Increment - Channel Bank Assembly & Commons	DS0	$0	Vendor Documentation	Included in Firmware & CBA Commons
151	DLC type 3	For Maximum Lines Per DLC Line Increment - DSX-1 and Cabling	DS0	$800	Engineering Input	
152	DLC type 3	For Maximum Lines Per DLC Line Increment - Test Access System & Equipment	DS0	$0	Engineering Input	
153	DLC type 3	For Maximum Lines Per DLC Line Increment - M1/3 Multiplexer	DS0	$3,000	Engineering Input	
154	DLC type 3	For Maximum Lines Per DLC Line Increment - Engineering (hrs.) - Hours	DS0	12	Engineering Input	
155	DLC type 3	For Maximum Lines Per DLC Line Increment - Place, Wire, Turn Up & Test DLC Equipment -	DS0	7.5	Engineering Input	
156	DLC type 3	For Maximum Lines Per DLC Line Increment - Install & Cross Connect DSX - Hours	DS0	1.5	Engineering Input	
157	DLC type 3	For Maximum Lines Per DLC Line Increment - Place CBA, Place and Terminate DS0 Cabling -	DS0	3	Engineering Input	
158	DLC type 3	For Maximum Lines Per DLC Line Increment - Place, Wire, Turn Up & Test M1/3 Multiplexer	DS0	1	Engineering Input	
159	DLC type 3	For Maximum Lines Per DLC Line Increment - Engineering (hrs.) - Labor Type	DS0	1	Engineering Input	
160	DLC type 3	For Maximum Lines Per DLC Line Increment - Place, Wire, Turn Up & Test DLC Equipment -	DS0	2	Engineering Input	
161	DLC type 3	For Maximum Lines Per DLC Line Increment - Install & Cross Connect DSX - Labor Type	DS0	2	Engineering Input	
162	DLC type 3	For Maximum Lines Per DLC Line Increment - Place CBA, Place and Terminate DS0 Cabling -	DS0	2	Engineering Input	
163	DLC type 3	For Maximum Lines Per DLC Line Increment - Place, Wire, Turn Up & Test M1/3 Multiplexer	DS0	2	Engineering Input	
164	Percent Addressable Business Line Share	Office Size 0	DS0	5%	Modeling Assumption	
165	Percent Addressable Business Line Share	Office Size 5,000	DS0	5%	Modeling Assumption	
166	Percent Addressable Business Line Share	Office Size 10,000	DS0	5%	Modeling Assumption	
167	Percent Addressable Business Line Share	Office Size 25,000	DS0	5%	Modeling Assumption	
168	Percent Addressable Business Line Share	Office Size 50,000	DS0	5%	Modeling Assumption	
169	Percent Addressable Business Line Share	Office Size 60,000	DS0	5%	Modeling Assumption	
170	Percent Addressable Business Line Share	Office Size 70,000	DS0	5%	Modeling Assumption	
171	Percent Addressable Business Line Share	Office Size 80,000	DS0	5%	Modeling Assumption	
172	Percent Addressable Business Line Share	Office Size 90,000	DS0	5%	Modeling Assumption	

ID	Group	Detail	Tools	Default	Source	Notes
173	Percent Addressable Business Line Share	Office Size 100,000	DS0	5%	Modeling Assumption	
174	Percent Addressable Residential Line Share	Office Size 0	DS0	5%	Modeling Assumption	
175	Percent Addressable Residential Line Share	Office Size 5,000	DS0	5%	Modeling Assumption	
176	Percent Addressable Residential Line Share	Office Size 10,000	DS0	5%	Modeling Assumption	
177	Percent Addressable Residential Line Share	Office Size 25,000	DS0	5%	Modeling Assumption	
178	Percent Addressable Residential Line Share	Office Size 50,000	DS0	5%	Modeling Assumption	
179	Percent Addressable Residential Line Share	Office Size 60,000	DS0	5%	Modeling Assumption	
180	Percent Addressable Residential Line Share	Office Size 70,000	DS0	5%	Modeling Assumption	
181	Percent Addressable Residential Line Share	Office Size 80,000	DS0	5%	Modeling Assumption	
182	Percent Addressable Residential Line Share	Office Size 90,000	DS0	5%	Modeling Assumption	
183	Percent Addressable Residential Line Share	Office Size 100,000	DS0	5%	Modeling Assumption	
184	Percent of loops longer than 18K feet	Lines <5	DS0	50%	Engineering Input	
185	Percent of loops longer than 18K feet	Lines 5 - 100	DS0	45%	Engineering Input	
186	Percent of loops longer than 18K feet	Lines 100 - 200	DS0	40%	Engineering Input	
187	Percent of loops longer than 18K feet	Lines 200 - 650	DS0	35%	Engineering Input	
188	Percent of loops longer than 18K feet	Lines 650 - 850	DS0	30%	Engineering Input	
189	Percent of loops longer than 18K feet	Lines 850 - 2,550	DS0	25%	Engineering Input	
190	Percent of loops longer than 18K feet	Lines 2,550 - 5,000	DS0	20%	Engineering Input	
191	Percent of loops longer than 18K feet	Lines 5,000 - 10,000	DS0	15%	Engineering Input	
192	Percent of loops longer than 18K feet	Lines >10,000	DS0	10%	Engineering Input	
193	Percent of loops > 18K feet which require range extension	Lines <5	DS0	20%	Engineering Input	
194	Percent of loops > 18K feet which require range extension	Lines 5 - 100	DS0	20%	Engineering Input	
195	Percent of loops > 18K feet which require range extension	Lines 100 - 200	DS0	20%	Engineering Input	
196	Percent of loops > 18K feet which require range extension	Lines 200 - 650	DS0	10%	Engineering Input	
197	Percent of loops > 18K feet which require range extension	Lines 650 - 850	DS0	10%	Engineering Input	
198	Percent of loops > 18K feet which require range extension	Lines 850 - 2,550	DS0	10%	Engineering Input	
199	Percent of loops > 18K feet which require range extension	Lines 2,550 - 5,000	DS0	0%	Engineering Input	
200	Percent of loops > 18K feet which require range extension	Lines 5,000 - 10,000	DS0	0%	Engineering Input	
201	Percent of loops > 18K feet which require range extension	Lines >10,000	DS0	0%	Engineering Input	

ID	Group	Detail	Tools	Default	Source	Notes
202	IDLC loops as Percent of DLC loops	Lines <5	DS0	50%	Telcordia	Based on Telcordia/Bellcore "DLC Deployment Trends", 1998.
203	IDLC loops as Percent of DLC loops	Lines 5 - 100	DS0	50%	Telcordia	Based on Telcordia/Bellcore "DLC Deployment Trends", 1998.
204	IDLC loops as Percent of DLC loops	Lines 100 - 200	DS0	50%	Telcordia	Based on Telcordia/Bellcore "DLC Deployment Trends", 1998.
205	IDLC loops as Percent of DLC loops	Lines 200 - 650	DS0	50%	Telcordia	Based on Telcordia/Bellcore "DLC Deployment Trends", 1998.
206	IDLC loops as Percent of DLC loops	Lines 650 - 850	DS0	50%	Telcordia	Based on Telcordia/Bellcore "DLC Deployment Trends", 1998.
207	IDLC loops as Percent of DLC loops	Lines 850 - 2,550	DS0	50%	Telcordia	Based on Telcordia/Bellcore "DLC Deployment Trends", 1998.
208	IDLC loops as Percent of DLC loops	Lines 2,550 - 5,000	DS0	50%	Telcordia	Based on Telcordia/Bellcore "DLC Deployment Trends", 1998.
209	IDLC loops as Percent of DLC loops	Lines 5,000 - 10,000	DS0	50%	Telcordia	Based on Telcordia/Bellcore "DLC Deployment Trends", 1998.
210	IDLC loops as Percent of DLC loops	Lines >10,000	DS0	50%	Telcordia	Based on Telcordia/Bellcore "DLC Deployment Trends", 1998.
211	Percent IDLC loops transferable to UDLC or	Lines <5	DS0	95%	Engineering Input	
212	Percent IDLC loops transferable to UDLC or	Lines 5 - 100	DS0	95%	Engineering Input	
213	Percent IDLC loops transferable to UDLC or	Lines 100 - 200	DS0	95%	Engineering Input	
214	Percent IDLC loops transferable to UDLC or	Lines 200 - 650	DS0	95%	Engineering Input	
215	Percent IDLC loops transferable to UDLC or	Lines 650 - 850	DS0	95%	Engineering Input	
216	Percent IDLC loops transferable to UDLC or	Lines 850 - 2,550	DS0	95%	Engineering Input	
217	Percent IDLC loops transferable to UDLC or	Lines 2,550 - 5,000	DS0	95%	Engineering Input	
218	Percent IDLC loops transferable to UDLC or	Lines 5,000 - 10,000	DS0	95%	Engineering Input	
219	Percent IDLC loops transferable to UDLC or	Lines >10,000	DS0	95%	Engineering Input	
220	Panel Installation Cost - DS0	DS0 - termination capacity/panel	DS0	200	Vendor documentation/Engineering Input	
221	Panel Installation Cost - DS0	DS0 - net price, 2 panels	DS0	$160	Engineering Input	
222	Panel Installation Cost - DS0	DS0 - maximum fill	DS0	100%	Engineering Input	
223	Panel Installation Cost - DS0	DS0 - labor type	DS0	1	Engineering Input	
224	Panel Installation Cost - DS0	DS0 - hours	DS0	0.5	Engineering Input	
225	Panel Installation Cost - DS0	DS0 - labor type	DS0	3	Engineering Input	
226	Panel Installation Cost - DS0	DS0 - hours	DS0	0.5	Engineering Input	
227	Panel Installation Cost - DS0	DS0 - labor type	DS0		Not Used	
228	Panel Installation Cost - DS0	DS0 - hours	DS0	0	Not Used	
229	Panel Installation Cost - DS0	DS0 - panel height (inches)	DS0	6	Vendor documentation	
230	Panel Installation Cost - DS0	DS0 - terminations required per active line	DS0	2	Vendor documentation	

ID	Group	Detail	Tools	Default	Source	Notes
231	Panel Installation Cost - DS1	DS1 - termination capacity/panel	DS0	28	Vendor documentation	
232	Panel Installation Cost - DS1	DS1 - Net price per panel	DS0	$1,600	Engineering Input	
233	Panel Installation Cost - DS1	DS1 - maximum fill	DS0	100%	Engineering Input	
234	Panel Installation Cost - DS1	DS1 - labor type	DS0	1	Engineering Input	
235	Panel Installation Cost - DS1	DS1 - hours	DS0	0.5	Engineering Input	
236	Panel Installation Cost - DS1	DS1 - labor type	DS0	3	Engineering Input	
237	Panel Installation Cost - DS1	DS1 - hours	DS0	3	Engineering Input	
238	Panel Installation Cost - DS1	DS1 - labor type	DS0		Not Used	
239	Panel Installation Cost - DS1	DS1 - hours	DS0	0	Not Used	
240	Panel Installation Cost - DS1	DS1 - panel height (inches)	DS0	4	Vendor Documentation	
241	Panel Installation Cost - DS1	DS1 - Terminations per active DS1	DS0	2	Vendor Documentation	
242	Panel Installation Cost - DS3	DS3 - termination capacity/panel	DS0	24	Vendor Documentation	
243	Panel Installation Cost - DS3	DS3 - Net price per panel	DS0, Transport	$8,500	Engineering Input	
244	Panel Installation Cost - DS3	DS3 - maximum fill	DS0	100%	Engineering Input	
245	Panel Installation Cost - DS3	DS3 - labor type	DS0, Transport	1	Engineering Input	
246	Panel Installation Cost - DS3	DS3 - hours	DS0, Transport	0.5	Engineering Input	
247	Panel Installation Cost - DS3	DS3 - labor type	DS0, Transport	3	Engineering Input	
248	Panel Installation Cost - DS3	DS3 - hours	DS0, Transport	2	Engineering Input	
249	Panel Installation Cost - DS3	DS3 - labor type	DS0, Transport		Not Used	
250	Panel Installation Cost - DS3	DS3 - hours	DS0, Transport	0	Not Used	
251	Panel Installation Cost - DS3	DS3 - panel height (inches)	DS0	7.5	Vendor documentation	
252	Panel Installation Cost - DS3	DS3 - Terminations per active DS3	DS0	2	Vendor documentation	
253	Panel Installation Cost - Standard Rack	Standard Rack (iron work only) - Net price per panel	DS0, Transport	$350	Engineering Input	
254	Panel Installation Cost - Standard Rack	Standard Rack (iron work only) - labor type	DS0, Transport	1	Engineering Input	
255	Panel Installation Cost - Standard Rack	Standard Rack (iron work only) - hours	DS0, Transport	0.5	Engineering Input	
256	Panel Installation Cost - Standard Rack	Standard Rack (iron work only) - labor type	DS0, Transport	3	Engineering Input	
257	Panel Installation Cost - Standard Rack	Standard Rack (iron work only) - hours	DS0, Transport	2	Engineering Input	
258	Panel Installation Cost - Standard Rack	Standard Rack (iron work only) - labor type	DS0, Transport		Not Used	
259	Panel Installation Cost - Standard Rack	Standard Rack (iron work only) - hours	DS0, Transport	0	Not Used	

ID	Group	Detail	Tools	Default	Source	Notes
260	Panel Installation Cost - Standard Rack	Standard Rack - vertical height (inches)	DS0	78	Vendor Documentation	
261	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - net price per panel	DS0	$200	Engineering Input	
262	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - maximum fill	DS0	100%	Engineering Input	
263	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0	3	Engineering Input	
264	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	14	Engineering Input	
265	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0		Not Used	
266	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	0	Not Used	
267	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0		Not Used	
268	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	0	Not Used	
269	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - net price per panel	DS0	$500	Engineering Input	
270	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - maximum fill	DS0	100%	Engineering Input	
271	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0	3	Engineering Input	
272	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	16.5	Engineering Input	
273	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0		Not Used	
274	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	0	Not Used	
275	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0		Not Used	
276	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	0	Not Used	
277	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - net price per panel	DS0	$800	Engineering Input	
278	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - maximum fill	DS0	100%	Engineering Input	
279	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0	3	Engineering Input	
280	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	19.0	Engineering Input	
281	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0		Not Used	
282	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	0	Not Used	
283	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0		Not Used	
284	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	0	Not Used	
285	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - net price per panel	DS0	$1,000	Engineering Input	
286	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - maximum fill	DS0	100%	Engineering Input	
287	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0	3	Engineering Input	
288	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	21.5	Engineering Input	

ID	Group	Detail	Tools	Default	Source	Notes
289	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0		Not Used	
290	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	0	Not Used	
291	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0		Not Used	
292	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0	0	Not Used	
293	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - capacity (amps)	Transport	300	Vendor Documentation	
294	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - net price per panel	DS0, Transport	$5,500	Engineering Input	
295	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - maximum fill	DS0, Transport	100%	Engineering Input	
296	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0, Transport	3	Engineering Input	
297	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0, Transport	24	Engineering Input	
298	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0, Transport		Not Used	
299	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0, Transport	0	Not Used	
300	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - labor type	DS0, Transport		Not Used	
301	Panel Installation Cost - Battery Distribution Fuse Bay -	Battery Distribution Fuse Bay - hours	DS0, Transport	0	Not Used	
302	Panel Installation Cost - Battery Distribution Fuse Bay	Minimum DC current purchase requirement for collocation	DS0	0		User Option
303	Panel Installation Cost - Battery Distribution Fuse Bay	Include BDFB?	DS0, Transport	Yes		User Option
304	OC-48 Add/Drop Multiplexer	fixed	Transport	$28,632	Price Quote	
305	OC-48 Add/Drop Multiplexer	cost per added module	Transport	$12,600	Price Quote	
306	OC-48 Add/Drop Multiplexer	capacity/module (DS3)	Transport	12	Vendor Documentation	
307	OC-48 Add/Drop Multiplexer	engineered DS3 fill	Transport	80%	Engineering Input	
308	OC-48 Add/Drop Multiplexer	frames required per base module	Transport	0.5	Vendor Documentation	
309	OC-48 Add/Drop Multiplexer	current drain amps (per base module)	Transport	10	Vendor Documentation	
310	OC-48 Add/Drop Multiplexer	current drain amps (per sub module)	Transport	2.5	Vendor Documentation	
311	OC-48 Add/Drop Multiplexer	labor type	Transport	1	Price Quote	
312	OC-48 Add/Drop Multiplexer	hours	Transport	21	Price Quote	
313	OC-48 Add/Drop Multiplexer	labor type	Transport	2	Price Quote	
314	OC-48 Add/Drop Multiplexer	hours	Transport	18	Price Quote	
315	OC-48 Add/Drop Multiplexer	labor type	Transport		Not Used	
316	OC-48 Add/Drop Multiplexer	hours	Transport	0	Not Used	
317	Fiber Distribution Panels	panel	Transport	$200	Engineering Input	

ID	Group	Detail	Tools	Default	Source	Notes
318	Fiber Distribution Panels	capacity (fiber strands)	Transport	24	Vendor Documentation	
319	Fiber Distribution Panels	practical fill	Transport	100%	Engineering Input	
320	Fiber Distribution Panels	cost to connect a strand	Transport	$60	Engineering Input	
321	Fiber Distribution Panels	panels per frame	Transport	5	Vendor documentation/Engineering Input	
322	Fiber Distribution Panels	labor type	Transport	1	Engineering Input	
323	Fiber Distribution Panels	hours	Transport	0.5	Engineering Input	
324	Fiber Distribution Panels	labor type	Transport	2	Engineering Input	
325	Fiber Distribution Panels	hours	Transport	5	Engineering Input	
326	Fiber Distribution Panels	labor type	Transport	0	Not Used	
327	Fiber Distribution Panels	hours	Transport	0	Not Used	
328	Fiber Installation Cost	Underground - Conduit/ft	Transport	$0.60	Engineering Input/Price Quote	
329	Fiber Installation Cost	Underground - Pull box (per ft, 1 per 2000 ft)	Transport	$0.25	Engineering Input/Price Quote	$215 Matl + $280 Installation ÷ 2,000 ft.
330	Fiber Installation Cost	Pole Cost	Transport	$417	Engineering Input	
331	Buried excavation, installation, and restoration	Density 5	Transport	$1.77	Engineering Input	
332	Buried excavation, installation, and restoration	Density 10	Transport	$1.77	Engineering Input	
333	Buried excavation, installation, and restoration	Density 100	Transport	$1.77	Engineering Input	
334	Buried excavation, installation, and restoration	Density 200	Transport	$1.93	Engineering Input	
335	Buried excavation, installation, and restoration	Density 650	Transport	$2.17	Engineering Input	
336	Buried excavation, installation, and restoration	Density 850	Transport	$3.54	Engineering Input	
337	Buried excavation, installation, and restoration	Density 2550	Transport	$4.27	Engineering Input	
338	Buried excavation, installation, and restoration	Density 5000	Transport	$13.00	Engineering Input	
339	Buried excavation, installation, and restoration	Density >10000	Transport	$40.14	Engineering Input	
340	Underground excavation, installation, and restoration	Density 5	Transport	$10.29	Engineering Input	
341	Underground excavation, installation, and restoration	Density 10	Transport	$10.29	Engineering Input	
342	Underground excavation, installation, and restoration	Density 100	Transport	$10.29	Engineering Input	
343	Underground excavation, installation, and restoration	Density 200	Transport	$11.35	Engineering Input	
344	Underground excavation, installation, and restoration	Density 650	Transport	$11.88	Engineering Input	
345	Underground excavation, installation, and restoration	Density 850	Transport	$16.40	Engineering Input	
346	Underground excavation, installation, and restoration	Density 2550	Transport	$21.60	Engineering Input	

ID	Group	Detail	Tools	Default	Source	Notes
347	Underground excavation, installation, and restoration	Density 5000	Transport	$50.10	Engineering Input	
348	Underground excavation, installation, and restoration	Density >10000	Transport	$75.00	Engineering Input	
349	Percent Leased Underground structures	Density 5	Transport	0%	Modeling Assumption	
350	Percent Leased Underground structures	Density 10	Transport	5%	Modeling Assumption	
351	Percent Leased Underground structures	Density 100	Transport	10%	Modeling Assumption	
352	Percent Leased Underground structures	Density 200	Transport	15%	Modeling Assumption	
353	Percent Leased Underground structures	Density 650	Transport	20%	Modeling Assumption	
354	Percent Leased Underground structures	Density 850	Transport	25%	Modeling Assumption	
355	Percent Leased Underground structures	Density 2550	Transport	30%	Modeling Assumption	
356	Percent Leased Underground structures	Density 5000	Transport	35%	Modeling Assumption	
357	Percent Leased Underground structures	Density >10000	Transport	40%	Modeling Assumption	
358	Cost per foot for leased Underground structures	Density 5	Transport	$0.03	Modeling Assumption	
359	Cost per foot for leased Underground structures	Density 10	Transport	$0.03	Modeling Assumption	
360	Cost per foot for leased Underground structures	Density 100	Transport	$0.03	Modeling Assumption	
361	Cost per foot for leased Underground structures	Density 200	Transport	$0.03	Modeling Assumption	
362	Cost per foot for leased Underground structures	Density 650	Transport	$0.03	Modeling Assumption	
363	Cost per foot for leased Underground structures	Density 850	Transport	$0.03	Modeling Assumption	
364	Cost per foot for leased Underground structures	Density 2550	Transport	$0.03	Modeling Assumption	
365	Cost per foot for leased Underground structures	Density 5000	Transport	$0.03	Modeling Assumption	
366	Cost per foot for leased Underground structures	Density >10000	Transport	$0.03	Modeling Assumption	
367	Percent Leased Aerial structures	Density 5	Transport	0%	Modeling Assumption	
368	Percent Leased Aerial structures	Density 10	Transport	5%	Modeling Assumption	
369	Percent Leased Aerial structures	Density 100	Transport	10%	Modeling Assumption	
370	Percent Leased Aerial structures	Density 200	Transport	15%	Modeling Assumption	
371	Percent Leased Aerial structures	Density 650	Transport	20%	Modeling Assumption	
372	Percent Leased Aerial structures	Density 850	Transport	25%	Modeling Assumption	
373	Percent Leased Aerial structures	Density 2550	Transport	30%	Modeling Assumption	
374	Percent Leased Aerial structures	Density 5000	Transport	35%	Modeling Assumption	
375	Percent Leased Aerial structures	Density >10000	Transport	40%	Modeling Assumption	

ID	Group	Detail	Tools	Default	Source	Notes
376	Cost per foot for leased Aerial structures	Density 5	Transport	$0.24	Modeling Assumption	
377	Cost per foot for leased Aerial structures	Density 10	Transport	$0.24	Modeling Assumption	
378	Cost per foot for leased Aerial structures	Density 100	Transport	$0.30	Modeling Assumption	
379	Cost per foot for leased Aerial structures	Density 200	Transport	$0.30	Modeling Assumption	
380	Cost per foot for leased Aerial structures	Density 650	Transport	$0.343	Modeling Assumption	
381	Cost per foot for leased Aerial structures	Density 850	Transport	$0.40	Modeling Assumption	
382	Cost per foot for leased Aerial structures	Density 2550	Transport	$0.40	Modeling Assumption	
383	Cost per foot for leased Aerial structures	Density 5000	Transport	$0.40	Modeling Assumption	
384	Cost per foot for leased Aerial structures	Density >10000	Transport	$0.40	Modeling Assumption	
385	Aerial structure spacing	Density 5	Transport	250	Engineering input	
386	Aerial structure spacing	Density 10	Transport	250	Engineering input	
387	Aerial structure spacing	Density 100	Transport	200	Engineering input	
388	Aerial structure spacing	Density 200	Transport	200	Engineering input	
389	Aerial structure spacing	Density 650	Transport	175	Engineering input	
390	Aerial structure spacing	Density 850	Transport	150	Engineering input	
391	Aerial structure spacing	Density 2550	Transport	150	Engineering input	
392	Aerial structure spacing	Density 5000	Transport	150	Engineering input	
393	Aerial structure spacing	Density >10000	Transport	150	Engineering input	
394	Fiber Structure Proportions	Aerial - Density 5	Transport	35%	Engineering input	
395	Fiber Structure Proportions	Aerial - Density 10	Transport	35%	Engineering input	
396	Fiber Structure Proportions	Aerial - Density 100	Transport	35%	Engineering input	
397	Fiber Structure Proportions	Aerial - Density 200	Transport	30%	Engineering input	
398	Fiber Structure Proportions	Aerial - Density 650	Transport	30%	Engineering input	
399	Fiber Structure Proportions	Aerial - Density 850	Transport	20%	Engineering input	
400	Fiber Structure Proportions	Aerial - Density 2550	Transport	15%	Engineering input	
401	Fiber Structure Proportions	Aerial - Density 5000	Transport	10%	Engineering input	
402	Fiber Structure Proportions	Aerial - Density >10000	Transport	5%	Engineering input	
403	Fiber Structure Proportions	Buried - Density 5	Transport	60%	Engineering input	
404	Fiber Structure Proportions	Buried - Density 10	Transport	60%	Engineering input	

ID	Group	Detail	Tools	Default	Source	Notes
405	Fiber Structure Proportions	Buried - Density 100	Transport	60%	Engineering input	
406	Fiber Structure Proportions	Buried - Density 200	Transport	60%	Engineering input	
407	Fiber Structure Proportions	Buried - Density 650	Transport	30%	Engineering input	
408	Fiber Structure Proportions	Buried - Density 850	Transport	20%	Engineering input	
409	Fiber Structure Proportions	Buried - Density 2550	Transport	10%	Engineering input	
410	Fiber Structure Proportions	Buried - Density 5000	Transport	5%	Engineering input	
411	Fiber Structure Proportions	Buried - Density >10000	Transport	5%	Engineering input	
412	Fiber Structure Proportions	Underground - Density 5	Transport	5%	Engineering input	
413	Fiber Structure Proportions	Underground - Density 10	Transport	5%	Engineering input	
414	Fiber Structure Proportions	Underground - Density 100	Transport	5%	Engineering input	
415	Fiber Structure Proportions	Underground - Density 200	Transport	10%	Engineering input	
416	Fiber Structure Proportions	Underground - Density 650	Transport	40%	Engineering input	
417	Fiber Structure Proportions	Underground - Density 850	Transport	60%	Engineering input	
418	Fiber Structure Proportions	Underground - Density 2550	Transport	75%	Engineering input	
419	Fiber Structure Proportions	Underground - Density 5000	Transport	85%	Engineering input	
420	Fiber Structure Proportions	Underground - Density >10000	Transport	90%	Engineering input	
421	Fiber Structure Sharing	Aerial - Density 5	Transport	50%	Engineering input	
422	Fiber Structure Sharing	Aerial - Density 10	Transport	33%	Engineering input	
423	Fiber Structure Sharing	Aerial - Density 100	Transport	25%	Engineering input	
424	Fiber Structure Sharing	Aerial - Density 200	Transport	25%	Engineering input	
425	Fiber Structure Sharing	Aerial - Density 650	Transport	25%	Engineering input	
426	Fiber Structure Sharing	Aerial - Density 850	Transport	25%	Engineering input	
427	Fiber Structure Sharing	Aerial - Density 2550	Transport	25%	Engineering input	
428	Fiber Structure Sharing	Aerial - Density 5000	Transport	25%	Engineering input	
429	Fiber Structure Sharing	Aerial - Density >10000	Transport	25%	Engineering input	
430	Fiber Structure Sharing	Buried - Density 5	Transport	40%	Engineering input	
431	Fiber Structure Sharing	Buried - Density 10	Transport	40%	Engineering input	
432	Fiber Structure Sharing	Buried - Density 100	Transport	40%	Engineering input	
433	Fiber Structure Sharing	Buried - Density 200	Transport	40%	Engineering input	

ID	Group	Detail	Tools	Default	Source	Notes
434	Fiber Structure Sharing	Buried - Density 650	Transport	40%	Engineering input	
435	Fiber Structure Sharing	Buried - Density 850	Transport	40%	Engineering input	
436	Fiber Structure Sharing	Buried - Density 2550	Transport	40%	Engineering input	
437	Fiber Structure Sharing	Buried - Density 5000	Transport	40%	Engineering input	
438	Fiber Structure Sharing	Buried - Density >10000	Transport	40%	Engineering input	
439	Fiber Structure Sharing	Underground - Density 5	Transport	50%	Engineering input	
440	Fiber Structure Sharing	Underground - Density 10	Transport	50%	Engineering input	
441	Fiber Structure Sharing	Underground - Density 100	Transport	50%	Engineering input	
442	Fiber Structure Sharing	Underground - Density 200	Transport	40%	Engineering input	
443	Fiber Structure Sharing	Underground - Density 650	Transport	33%	Engineering input	
444	Fiber Structure Sharing	Underground - Density 850	Transport	33%	Engineering input	
445	Fiber Structure Sharing	Underground - Density 2550	Transport	33%	Engineering input	
446	Fiber Structure Sharing	Underground - Density 5000	Transport	33%	Engineering input	
447	Fiber Structure Sharing	Underground - Density >10000	Transport	33%	Engineering input	

SUPPORT

Maximum nodes per ring – facility ring processor

This is the maximum number of nodes the ring code will include in a "facility" ring connecting carrier switch locations. It is typical of common transmission engineering practices employed by existing carriers.

Regenerator spacing – facility ring processor

The ring processor uses this input to determine when optical regeneration is required on a span connecting two nodes on a SONET ring. It is a conservative value based on the technical specifications of commonly-available optical fiber and SONET optical transmitters and receivers. A very conservative estimate for maximum span loss accommodated by current long-reach optical interfaces operating at 1550 nm is 22 dB (including consideration for end-of-life deterioration and splicing).[1] A conservative estimate for non-zero dispersion-shifted fiber attenuation is 0.24 dB/km.[2] The maximum regenerator spacing, using these values, is 20 dB/ 0.24 db/km, or 91 km, which is about 57 miles.

CLLI rejection threshold, miles – facility ring processor

This is a modeling input assumption used to identify "outlier" locations in the construction of "core" rings; any location whose distance to the next closest location is greater than the threshold distance will be rejected from the ring calculations. The default value was selected by model developers as a reasonable threshold value for modeling purposes.

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[1] Long-reach optical modules can readily accommodate span losses of greater than 25 dB at 1550 nm. See, e.g., http://www.cisco.com/en/US/products/hw/modules/ps2831/products_data_sheet09186a0080088774.html

[2] See, *e.g.*, *Corning® LEAF® Optical Fiber Product Guide*, PI1107, March, 2003, Corning Incorporated. The 0.24 dB/km value applies over the range 1525-1575 nm.

Installed Fiber Cable Costs

OSP Engineering Labor Rate & Productivity - Fiber Cable		
Function	Parameter	
Length of OSP engineer work day (hrs.)	8.0	Source: Common knowledge.
OSP engineering labor rate ($/hr.)	**$50.00**	Source: National average - expert opinion & review of UNE dockets.
OSP engineering cable productivity (ft./day)	10,000	Source: Expert opinion.
Minutes per splice engineered	10.0	Source: Expert opinion.
Minutes per 12 fibers engineered	3.0	Source: Expert opinion.

OSP Technician Labor Rate & Productivity - Fiber Cable		
Function	Parameter	
Length of OSP technician work day (hrs.)	8.0	Source: Common knowledge.
OSP technician labor rate ($/hr.)	**$50.00**	Source: National average - expert opinion & review of UNE dockets.
Splicing set up and closure time (hrs.)	2.0	Source: Expert opinion.
Splicing rate (min/fiber)	5.0	Source: Expert opinion.

OSP Technician Labor Rate & Productivity - Fiber Cable				
Function	Aerial	Buried	Underground	
Distance between Splices (ft.)	8,000	8,000	8,000	Source: Expert opinion.
Cable Placing Rates (ft./day)	6,000	6,000	6,000	Source: Expert opinion.
Cable Placing Crew size	2.0	2.0	2.0	Source: Expert opinion.
Cable Splicing Crew size	1.0	1.0	2.0	Source: Expert opinion.

Fiber Cable, Installed $/foot						
Installed Cost/foot						
Cable	Aerial					
Size	Material	Engrg	Placing	Splicing	Labor	Total
288	$8.51	$0.05	$0.13	$0.16	$0.34	$8.85
216	$6.42	$0.05	$0.13	$0.13	$0.31	$6.73
144	$4.30	$0.04	$0.13	$0.09	$0.27	$4.57
96	$2.97	$0.04	$0.13	$0.06	$0.24	$3.21
72	$2.30	$0.04	$0.13	$0.05	$0.23	$2.53
48	$1.60	$0.04	$0.13	$0.04	$0.21	$1.81
36	$1.12	$0.04	$0.13	$0.03	$0.21	$1.33
24	$0.89	$0.04	$0.13	$0.03	$0.20	$1.09
12	$0.59	$0.04	$0.13	$0.02	$0.19	$0.78
6	$0.36	$0.04	$0.13	$0.02	$0.19	$0.55
					Aerial incremental fiber cost (per foot)	**$0.0294**

Cable	Buried					
Size	Material	Engrg	Placing	Splicing	Labor	Total
288	$8.51	$0.05	$0.13	$0.16	$0.34	$8.85
216	$6.42	$0.05	$0.13	$0.13	$0.31	$6.73
144	$4.30	$0.04	$0.13	$0.09	$0.27	$4.57
96	$2.97	$0.04	$0.13	$0.06	$0.24	$3.21
72	$2.30	$0.04	$0.13	$0.05	$0.23	$2.53
48	$1.60	$0.04	$0.13	$0.04	$0.21	$1.81
36	$1.12	$0.04	$0.13	$0.03	$0.21	$1.33
24	$0.89	$0.04	$0.13	$0.03	$0.20	$1.09
12	$0.59	$0.04	$0.13	$0.02	$0.19	$0.78
6	$0.36	$0.04	$0.13	$0.02	$0.19	$0.55
					Buried incremental fiber cost (per foot)	**$0.0294**

Cable	Underground					
Size	Material	Engrg	Placing	Splicing	Labor	Total
288	$8.51	$0.05	$0.13	$0.33	$0.51	$9.02
216	$6.42	$0.05	$0.13	$0.25	$0.43	$6.85
144	$4.30	$0.04	$0.13	$0.18	$0.35	$4.65
96	$2.97	$0.04	$0.13	$0.13	$0.30	$3.27
72	$2.30	$0.04	$0.13	$0.10	$0.28	$2.58
48	$1.60	$0.04	$0.13	$0.08	$0.25	$1.85
36	$1.12	$0.04	$0.13	$0.06	$0.24	$1.36
24	$0.89	$0.04	$0.13	$0.05	$0.23	$1.12
12	$0.59	$0.04	$0.13	$0.04	$0.21	$0.80
6	$0.36	$0.04	$0.13	$0.03	$0.21	$0.57
					Underground incremental fiber cost (per foot)	**$0.0299**

Average fixed component of fiber cost (per foot)	**$0.3799**

Source of Material Costs: Florida PSC Order No. PSC-99-0068-FOF, pages 147-149

Company	2002 Regulated Revenues	2001 Regulated Revenues	Other Taxes 2002 Other Taxes	Other Taxes 2001 Other Taxes	2002 Other Taxes divided by	2001 Other Taxes divided by
BellSouth-Florida	4,015,554	4,436,902	107,490	185,360	2.8%	4.4%
BellSouth-Georgia	3,114,129	3,241,771	98,135	83,949	3.3%	2.7%
BellSouth-North Carolina	1,606,682	1,761,783	27,443	52,031	1.7%	3.0%
BellSouth-South Carolina	1,082,007	1,101,870	61,553	56,339	6.0%	5.4%
BellSouth-Alabama	1,382,621	1,377,440	29,280	26,973	2.16%	2.0%
BellSouth-Kentucky	874,122	848,870	28,483	23,740	3.4%	2.9%
BellSouth-Louisiana	1,638,548	1,663,147	50,243	50,697	3.2%	3.1%
BellSouth-Mississippi	1,119,155	1,108,809	28,258	31,115	2.6%	2.9%
BellSouth-Tennessee	1,677,243	1,750,713	48,607	54,449	3.0%	3.2%
Qwest-Arizona	1,667,470	1,779,150	83,906	71,623	5.3%	4.2%
Qwest-Colorado	2,078,579	2,152,093	67,794	52,457	3.4%	2.5%
Qwest-Idaho South	330,306	331,878	5,969	9,754	1.8%	3.0%
Qwest-Montana	259,618	254,601	14,657	12,736	6.0%	5.3%
Qwest-New Mexico	536,778	550,664	20,081	15,253	3.9%	2.8%
Qwest-Utah	691,871	723,350	38,052	23,806	5.8%	3.4%
Qwest-Wyoming	204,957	201,447	4,603	4,144	2.3%	2.1%
Qwest-Iowa	599,936	624,218	30,782	32,381	5.4%	5.5%
Qwest-Minnesota	1,261,199	1,361,803	6,926	5,372	0.6%	0.4%
Qwest-Nebraska	413,792	440,087	9,826	17,612	2.4%	4.2%
Qwest-North Dakota	152,163	160,592	2,033	3,070	1.4%	1.9%
Qwest-South Dakota	168,766	181,582	4,517	6,931	2.8%	4.0%
Qwest-Idaho North	19,158	17,671	-8,712	689	-31.3%	4.1%
Qwest-Oregon	827,232	834,267	45,769	25,582	5.9%	3.2%
Qwest-Washington	1,424,860	1,505,773	73,148	73,850	5.4%	5.2%
Southwestern - Arkansas	718,968	761,823	19,872	17,458	2.8%	2.3%
Southwestern - Kansas	846,769	912,563	60,973	56,970	7.8%	6.7%
Southwestern - Missouri	1,700,834	1,831,781	88,992	99,538	5.5%	5.7%
Southwestern - Oklahoma	1,013,388	1,018,737	49,969	45,554	5.2%	4.7%
Southwestern - Texas	6,724,764	6,669,036	474,514	448,332	7.6%	7.2%
Pacific Bell - California	9,689,333	10,072,198	167,471	151,557	1.8%	1.5%
Nevada Bell	190,499	191,412	8,165	6,145	4.5%	3.3%
SBC/SNET - Connecticut	1,594,103	1,643,471	44,449	36,021	2.9%	2.2%
Illinois Bell	3,531,444	3,881,393	50,964	67,673	1.5%	1.8%
Indiana Bell	1,233,107	1,272,317	33,928	21,109	2.8%	1.7%
Michigan Bell	2,932,765	3,319,249	86,627	87,590	3.0%	2.7%
Ohio Bell	2,229,402	2,331,444	97,102	118,479	4.6%	5.4%
Wisconsin Bell	1,205,618	1,250,816	33,493	32,646	2.9%	2.7%
Verizon-Washington D.C.	574,436	648,130	39,345	39,172	7.4%	6.4%
Verizon-Maryland	2,180,374	2,276,125	130,960	142,513	6.4%	6.7%
Verizon-Virginia	2,122,053	2,316,849	79,326	65,941	3.9%	2.9%
Verizon-West Virginia	600,827	666,637	35,960	31,610	6.4%	5.0%
Verizon-Delaware	313,610	300,375	6,648	6,648	2.2%	2.3%
Verizon-Pennsylvania	3,269,311	3,401,450	127,318	112,428	4.1%	3.4%
Verizon-New Jersey	3,529,339	3,714,787	88,520	83,423	2.6%	2.3%
Verizon NE - Maine	474,731	515,953	25,224	26,871	5.6%	5.5%
Verizon NE - Massachusetts	2,500,584	2,685,556	74,291	71,693	3.1%	2.7%
Verizon NE - New Hampshire	449,735	489,942	3,132	3,987	0.7%	0.8%
Verizon NE - Rhode Island	302,512	344,101	30,816	35,970	11.3%	11.7%
Verizon NE - Vermont	231,211	253,385	9,365	10,354	4.2%	4.3%
Verizon New York Telephone	7,289,034	7,522,873	560,906	527,033	8.3%	7.5%