

PART 2: INPUT PARAMETER DEFINITIONS AND DEFAULT VALUES

DISTRIBUTION INPUT PARAMETERS

B1. NID Investment per line

Definition

The investment in the components of the network interface device (NID), the device at the customers' premises within which the drop wire terminates, and which is the point of subscriber demarcation.

Default Values

NID Materials and Installation	
	Costs
Residential NID case, no protector	\$10.00
Residential NID basic labor	<u>\$15.00</u>
Installed NID case	\$25.00
Maximum lines per res. NID	6
Protection block, per line	\$4.00
Business NID case, no protector	\$25.00
Business NID basic labor	<u>\$15.00</u>
Installed NID case	\$40.00
Protection block, per line	\$4.00
<i>Indoor NID Case</i>	<i>\$5.00</i>

B2. Drop Distance

Definition

The average length of a drop cable in each of nine density zones.

Default Values

Drop Distance by Density	
Density Zone	Drop Distance, feet
0-5	150
5-100	150
100-200	100
200-650	100
650-850	50
850-2,550	50
2,550-5,000	50
5,000-10,000	50
10,000+	50

B3. Drop Placement, Aerial and Buried

Definition

The total placement cost by density zone of an aerial drop wire, and the cost per foot for buried distribution cable placement, respectively.

Default Values

Drop Placement, Aerial & Buried		
Density Zone	Aerial, total	Buried, per foot
0-5	\$23.33	\$0.60
5-100	\$23.33	\$0.60
100-200	\$17.50	\$0.60
200-650	\$17.50	\$0.60
650-850	\$11.67	\$0.60
850-2,550	\$11.67	\$0.60
2,550-5,000	\$11.67	\$0.75
5,000-10,000	\$11.67	\$1.50
10,000+	\$11.67	\$5.00

B4. Buried Drop Sharing Fraction

Definition

The fraction of buried drop cost that is assigned to the telephone company. The other portion of the cost is borne by other utilities.

Default Value

Density Zone	Fraction
0-5	.50
5-100	.50
100-200	.50
200-650	.50
650-850	.50
850-2,550	.50
2,550-5,000	.50
5,000-10,000	.50
10,000+	.50

B5. Drop Structure Fractions

Definition

The percentage of drops that are aerial and buried, respectively, as a function of CBG density zone.

Default values

Density Zone	Aerial	Buried
0-5	.25	.75
5-100	.25	.75
100-200	.25	.75
200-650	.30	.70
650-850	.30	.70
850-2,550	.30	.70
2,550-5,000	.30	.70
5,000-10,000	.60	.40
10,000+	.85	.15

B6. Number of Lines per Business Location

Definition

The average number of business lines per business location, used to calculate NID and drop cost.

Default Value

4

B7. Terminal and Splice Investment per line

Definition

The installed cost per line for the terminal and splice that connect the drop to the distribution cable.

Default Value

Terminal and Splice Investment per Line	
Buried	Aerial
\$42.50	\$32.00

B8. Drop Cable Investment, per foot and Pairs per Wire

Definition

The investment per foot required for aerial and buried drop wire, and the number of pairs in each type of drop wire.

Default Values

Drop Cable Investment, per foot		
	Material Cost Per foot	Pairs
Aerial	\$0.095	2
Buried	\$0.140	3

B9. Distribution Cable Sizes

Definition

Cable sizes used for distribution cable variables (in pairs).

Default Values

Cable Sizes
2400
1800
1200
900
600
400
200
100
50
25
12
6

B10. Copper Distribution Cable, \$/foot

Definition

The cost per foot of copper distribution cable, as a function of cable size, including the costs of engineering, installation, and delivery, as well as the cable material itself.

Default Values

Cable Size	Cost/foot including engineering, installation, delivery and material
2400	\$20.00
1800	\$16.00
1200	\$12.00
900	\$10.00
600	\$7.75
400	\$6.00
200	\$4.25
100	\$2.50
50	\$1.63
25	\$1.19
12	\$0.76
6	\$0.63

B11. Riser Cable, \$/foot

Definition

The cost per foot of copper riser cable (cable inside high-rise buildings), as a function of cable size, including the costs of engineering, installation, and delivery, as well as the cable material itself.

Default Values

Length (ft)	Default Value (\$/ft)
2400	\$25.00
1800	\$20.00
1200	\$15.00
900	\$12.50
600	\$10.00
400	\$7.50
200	\$5.30
100	\$3.15
50	\$2.05
25	\$1.50
12	\$0.95
6	\$0.80

B12. Pole Investment

Definition

The installed cost of a 40' Class 4 treated southern pine pole.

Default Value

Pole Investment	
Materials	\$201
Labor	\$216
Total	\$417

B13. Buried Copper Cable Sheath Multiplier (feeder and distribution)

Definition

The additional cost of the filling compound used in buried cable to protect the cable from moisture expressed as a multiplier of the cost of non-armored cable.

Default value

1.04

B14. Conduit Material Investment per foot

Definition

Material cost per foot of duct for 4" PVC.

Default Value

\$0.60

B15. Spare Tubes per Route (distribution)

Definition

The number of spare tubes (i.e., conduit) placed per route.

Default Value

1

B16. Regional Labor Adjustment Factor

Definition

A factor that adjusts the labor cost portion of certain investments to account for regional differences in the availability of trained labor, union contracts, and cost of living factors.

Default value

1.0

B17. Distribution Structure Fractions

Definition

The relative amounts of different structure types supporting distribution cable in each density zone. Aerial distribution cable is attached to telephone poles or buildings, buried cable is laid directly in the earth, and underground cable runs through underground conduit. In the highest two density zones, aerial structure includes riser and block cable.

The buried fraction available for shift parameter is defined as the fraction of buried cable input value available to be shifted to aerial. If the user has entered, for example, an initial value of 0.5 for the buried cable fraction in a given density zone and then enters 0.6 as the buried fraction available for shift, the model can allow the computed buried fraction (according to local surface and bedrock conditions) to vary between 0.2 and 0.8. Separate values must be entered for each density range, and the fraction cannot exceed 1.0.

Defaults

Distribution Cable Structure Fractions				
Density Zone	Aerial/Block Cable	Buried Cable	Underground Cable (calculated)	Buried Fraction Available for Shift
0-5	.25	.75	0	.75
5-100	.25	.75	0	.75
100-200	.25	.75	0	.75
200-650	.30	.70	0	.75
650-850	.30	.70	0	.75
850-2,550	.30	.70	0	.75
2,550-5,000	.30	.65	.05	.75
5,000-10,000	.60	.35	.05	0
10,000+	.85	.05	.10	0

B18. Distribution Cable Fill Factors

Definition

The portion of capacity in a distribution cable that is being used, calculated as the ratio of the number of assigned pairs to the total number of available pairs in the cable.

Default Values

Distribution Cable Fill Factors	
Density Zone	Factor
0-5	.50
5-100	.55
100-200	.55
200-650	.60
650-850	.65
850-2,550	.70
2,550-5,000	.75
5,000-10,000	.75
10,000+	.75

B19. Distribution Pole Spacing

Definition

Spacing between poles supporting aerial distribution cable. HM 5.0 assumes Aerial Cable in the two densest zones is Block and Building Cable, not support on poles.

Default Values

Distribution Pole Spacing	
Density Zone	Spacing
0-5	250
5-100	250
100-200	200
200-650	200
650-850	175
850-2,550	175
2,550-5,000	150
5,000-10,000	N/A
10,000+	N/A

B20. Distribution Multiplier, Difficult Terrain

Definition

The amount of extra distance required to route distribution and feeder cable around difficult soil

conditions, expressed as a multiplier of the distance calculated for normal situations.

Default

1.0

B21. Rock Depth Threshold, inches

Definition

The depth of bedrock, above which (that is, closer to the surface) additional costs are incurred for placing distribution or feeder cable.

Default

24 inches

B22. Hard Rock Placement Multiplier

Definition

The increased cost required to place distribution or feeder cable in bedrock classified as hard, when it is within the rock depth threshold of the surface, expressed as a multiplier of normal installation cost per foot.

Default

3.5

B23. Soft Rock Placement Multiplier

Definition

The increased cost required to place distribution or feeder cable in bedrock classified as soft, when it is within the rock depth threshold of the surface, expressed as a multiplier of normal installation cost per foot.

Default

2.0

B24. Sidewalk / Street Fraction

Definition

The fraction of small (< .03 sq. mile) downtown CBGs that are streets and sidewalks.

Default

0.20

B25. Local RT (per cluster) thresholds – Maximum Total Distance

Definition

The maximum potential distribution length, in feet, above which Remote Terminals are located at the center of each cluster, rather than at the center of the CBG, in order to reduce the remaining distribution length.

Default

18,000

B26. Feeder steering enable

Definition

Allows the user to instruct the model to adjust feeder route direction toward the preponderance of clusters in a quadrant. The user selects the option by checking a box.

Default

The default setting is disabled.

B27. Main feeder route/air multiplier

Definition

Route-to-air multiplier applied to main feeder distance when feeder steering is enabled to account for routing main feeder cable around obstacles.

Default

1.27

B28. Repeater Investment, Installed

Definition

The investment per T1 repeater, including electronics, housing, and installation, for T1 extension of loops longer than 18,000 ft.

Default

\$527.00

B29. Integrated COT, installed

Definition

The installed COT investment per road cable required to terminate the DLC connection serving subscribers along roads longer than 18,000 ft.

Default

\$420.00

B30. Remote Multiplexer Common Equipment Investment, Installed

Definition

The installed investment per subsidiary remote terminal used to serve subscribers along road cables longer than 18,000 ft.

Default

\$8,200.00

B31. Channel Unit Investment per Subscriber

Definition

The investment per line in POTS channel units installed in subsidiary RTs serving subscribers located along roads longer than 18,000 ft.

Default

\$125.00

B32. COT Investment per RT, Installed

Definition

The installed investment per subsidiary RT in protocol conversion equipment for interfacing with the integrated COT.

Default

\$1,170.00

B33. Remote terminal fill factor

Definition

The line unit fill factor in a DLC remote terminal, that is, the ratio of lines served by a DLC remote terminal to the number of line units equipped in the remote terminal.

Default

0.90

B34. Maximum T1s per cable

Definition

Maximum number of T1s that can share a cable without binder group separation or internal shielding.

Default

8

B35. T1 repeater spacing

Definition

Minimum design separation, measured in decibels, on copper cable as a function of the maximum loss between adjacent repeaters at 772 kHz and the loss of the copper cable on which the repeaters are installed. Used in calculation of investment for outliers located more than 18,000 ft (or as specified by user) from the outlier's home cluster or from the lower-order outlier in the outlier chain. Since these conditions occur on extremely long and small distribution cables, and since the Hatfield Model assumes 24 gauge cable for cable sizes of less than 400 pairs, the model assumes 24 gauge copper cable for these circuits.

Default

32.0 dB

B36. Aerial T1 Attenuation

Definition

The copper cable attenuation for the design of T1 circuits at an operational frequency of 772 kHz and a maximum temperature of 140 degrees Fahrenheit. Based on air core PIC (Plastic Insulated Conductor) cable.

Default

6.3 dB/kft.

B37. Buried T1 Attenuation

Definition

The copper cable attenuation for the design of T1 circuits at an operational frequency of 772 kHz and a normal operating temperature. Based on water blocking compound filled cables, using solid PIC insulation.

Default

5.0 dB/kft.

B38. Serving Area Interface (SAI) Investment

Definition

The installed investment in the SAI that acts as the physical interface point between distribution and feeder cable.

Default Values

Capacity	DS-0	DS-1
7200	\$9,656	\$10,000
5400	\$7,392	\$8,200
3600	\$4,928	\$6,000
2400	\$3,352	\$4,300
1800	\$2,464	\$3,400
1200	\$1,776	\$2,400
900	\$1,232	\$1,900
600	\$888	\$1,400
400	\$592	\$1,000
200	\$296	\$600
100	\$148	\$350
50	\$98	\$250

B39. Percentage of Dedicated Circuits

Definition

The fractions of total circuits included in the count of total private line and special access circuits that are DS-0 and DS-1 circuits, respectively. The fraction of DS-3 and higher capacity circuits is calculated by the model as (1-fraction DS0 - fraction DS1). The equivalence between the three circuit types -- that is, DS-0, DS-1, and DS-3 -- and wire pairs is expressed by Parameter B36. Note that the model assumes the circuit counts are expressed in terms of the number of DS-0, DS-1, and DS-3, circuits, respectively, not voice grade circuits or DS-0 equivalents. Thus if the data source expresses all circuit counts as DS-0 equivalents, as is the case with the existing ARMIS 43-08 report used as the source of special access line counts, the values for this parameter should be set to 100% DS-0 and 0% DS-1.

Default

Percentage of Dedicated Circuits	
DS-0	DS-1
100%	0%

B40. Pairs per Dedicated Circuit

Definition

Factor expressing the number of wire pairs required per dedicated circuit classification.

Default

DS-0	DS-1	DS-3
1	2	56

B41. Wireless Investment Cap Enable

Definition

When enabled, invokes wireless investment cap for distribution plant investment calculations.

Default

The default setting is disabled.

B42. Wireless Point to Point Investment Cap – Distribution

Definition

Specifies per subscriber investment for hypothetical point to point subscriber radio equipment.

Default

\$7,500

B43. Wireless Common Investment

Definition

Hypothetical investment in base station equipment for broadcast wireless loop system.

Default

\$112,500

B44. Wireless Per Line Investment

Definition

Hypothetical per subscriber investment for broadcast wireless loop systems; includes customer premises equipment and per subscriber share of base station radios.

Default

\$500

B45. Maximum Broadcast Lines per Common Investment

Definition

Hypothetical capacity of base station common equipment.

Default

30

FEEDER INPUT PARAMETERS

B46. Copper Feeder Structure Fractions

Definition

The relative amounts of different structure types supporting sheath feet of copper feeder cable in each density zone. Aerial feeder cable is attached to telephone poles, buried cable is laid directly in the earth, and underground cable runs through underground conduit.

Default Values

Copper Feeder Structure Fractions			
Density Zone	Aerial Feeder Cable	Buried Cable	Underground Cable (Calculated)
0-5	.50	.45	.05
5-100	.50	.45	.05
100-200	.50	.45	.05
200-650	.40	.40	.20
650-850	.30	.30	.40
850-2,550	.20	.20	.60
2,550-5,000	.15	.10	.75
5,000-10,000	.10	.05	.85
10,000+	.05	.05	.90

B47. Copper Feeder Manhole Spacing, feet

Definition

The distance, in feet, between manholes for copper feeder cable.

Default Values

Copper Feeder Manhole Spacing, feet	
Density Zone	Distance between manholes
0-5	800
5-100	800
100-200	800
200-650	800
650-850	600
850-2,550	600
2,550-5,000	600
5,000-10,000	400
10,000+	400

B48. Copper Feeder Pole Spacing, feet

Definition

Spacing between poles supporting aerial copper feeder cable.

Default Values

Copper Feeder Pole Spacing	
Density Zone	Spacing, ft.
0-5	250
5-100	250
100-200	200
200-650	200
650-850	175
850-2,550	175
2,550-5,000	150
5,000-10,000	150
10,000+	150

B49. Copper Feeder Pole Investment

Definition

The installed cost of a 40' Class 4 treated southern pine pole.

Default Value

Pole Investment	
Materials	\$201
Labor	<u>\$216</u>
Total	\$417

B50. Inner Duct Material Investment per foot

Definition

Material cost per foot of inner duct.

Default Value

\$0.30

B51. Fiber Feeder Structure Fractions

Definition

The relative amounts of different structure types supporting fiber feeder cable in each density zone. Aerial feeder cable is attached to telephone poles, buried cable is laid directly in the earth, and underground cable runs through underground conduit.

Default Values

Density Zone	Value 1	Value 2	Value 3	Fraction of Available
0-5	.35	.60	.05	.75
5-100	.35	.60	.05	.75
100-200	.35	.60	.05	.75
200-650	.30	.60	.10	.75
650-850	.30	.30	.40	.75
850-2,550	.20	.20	.60	.75
2,550-5,000	.15	.10	.75	.75
5,000-10,000	.10	.05	.85	.75
10,000+	.05	.05	.90	.75

B52. Fiber Feeder Pullbox Spacing, feet

Definition

The distance, in feet, between pullboxes for underground fiber feeder cable.

Default Values

Fiber Feeder Pullbox Spacing, feet	
Density Zone	Distance between pullboxes, ft.
0-5	2,000
5-100	2,000
100-200	2,000
200-650	2,000
650-850	2,000
850-2,550	2,000
2,550-5,000	2,000
5,000-10,000	2,000
10,000+	2,000

B53. Buried Fiber Sheath Addition, per foot

Definition

The cost of dual sheathing for additional mechanical protection of buried fiber feeder cable.

Default Value

\$0.20/foot

B54. Copper Feeder Cable Sizing Factors

Definition

The spare or excess capacity in a feeder cable, calculated as the ratio of the number of assigned pairs to the total number of available pairs in the cable.

Default Values

Copper Feeder Cable Fill Factors	
Density/Zone	Fill Factors
0-5	.65
5-100	.75
100-200	.80
200-650	.80
650-850	.80
850-2,550	.80
2,550-5,000	.80
5,000-10,000	.80
10,000+	.80

B55. Fiber Feeder Sizing Factor

Definition

Percentage of fiber strands in a cable that are available to be utilized.

Default

Fiber Feeder Fill Factor	
Density Zone	Fill Factor
0-5	1.00
5-100	1.00
100-200	1.00
200-650	1.00
650-850	1.00
850-2,550	1.00
2,550-5,000	1.00
5,000-10,000	1.00
10,000+	1.00

B56. Copper Feeder Cable; \$/ foot, per pair-foot

Definition

The cost per foot (\$/foot) and per pair-foot of copper feeder cable, as a function of cable size, including the costs of engineering, installation, and delivery, as well as the cable material itself. The copper investment per pair-foot is used in estimating comparative life-cycle costs for copper feeder.

Default Value

Copper Feeder Investment	
Cable Size	\$/foot (w/g & arial)
4200	\$29.00
3600	\$26.00
3000	\$23.00
2400	\$20.00
1800	\$16.00
1200	\$12.00
900	\$10.00
600	\$7.75
400	\$6.00
200	\$4.25
100	\$2.50
Copper Investment per pair - 100'	
\$ 0.0075 / pair-ft.	

B57. Fiber Feeder Cable; \$/foot, per strand-foot

Definition

The cost per foot (\$/foot) and per strand-foot of fiber feeder cable, as a function of cable size, including the costs of engineering, installation, and delivery, as well as the cable material itself. The fiber investment per strand-foot is used in estimating comparative life-cycle costs for copper and fiber feeder.

Default Value

Fiber Feeder Investment	
Cable Size	\$/foot (w/g & arial)
216	\$13.10
144	\$9.50
96	\$7.10
72	\$5.90
60	\$5.30
48	\$4.70
36	\$4.10
24	\$3.50
18	\$3.20
12	\$2.90
Fiber Investment per strand - 100'	
\$ 0.10 / fiber-ft.	

B58. DLC site and power per remote terminal

Definition

The investment associated with site and power for the remote terminal of a Digital Loop Carrier (DLC) system.

Default Value

DLC Site and Power per Remote Terminal	
TR-303 DLC	Low Density DLC
\$3,000	\$1,300

B59. Maximum Line Size per Remote Terminal

Definition

The maximum number of lines supported by the initial line module of a remote terminal.

Default

Maximum Line Size per Remote Terminal	
TR-303 DLC	Low density DLC
672	120

B60. Remote terminal sizing factor

Definition

The line unit sizing factor in a DLC remote terminal, that is, the ratio of lines served by a DLC remote terminal to the number of line units equipped in the remote terminal.

Default Value

Remote Terminal Sizing Factors	
TR-303 DLC	Low Density DLC
0.90	0.90

B61. DLC initial common equipment investment

Definition

The cost of all common equipment and housing in the remote terminal, as well as the fiber optics multiplexer required at the CO end for the initial line module of the DLC system (assumes integrated digital loop carrier (IDLC)).

Default Value

DLC Initial Common Equipment Investment	
TR-303 DLC	Low Density DLC
\$66,000	\$16,000

B62. DLC channel unit investment

Definition

The investment in channel units required in the remote terminal of the DLC system.

Default Value

DLC Type	POTS Channel Unit	Coin Channel Unit
GR-303	\$310	\$250
Low Density	\$600	\$600

B63. DLC Lines per CU

Definition

The number of lines that can be supported on a single DLC channel unit.

Default Value

DLC Type	POTS	Coin
GR-303	4	2
Low Density	6	6

B64. Low Density DLC to TR-303 DLC Cutover

Definition

The threshold number of lines served, above which the TR-303 DLC will be utilized.

Default

480

B65. Fibers per remote terminal

Definition

The number of fibers connected to each DLC remote terminal, including one for upstream transmission, one for downstream transmission, and two for redundancy.

Default Value

Fiber per Remote Terminal	
TR-303 DLC	Low Density DLC
4	4

B66. Optical Patch Panel

Definition

The investment required for each optical patch panel associated with a DLC remote terminal.

Default

Optical Patch Panel	
TR-303 DLC	Low density DLC
\$1000	\$1000

B67. Copper Feeder Maximum Distance, feet

Definition

The feeder length above which fiber feeder cable is used in lieu of copper cable. This value must be less than 18,000 feet.

Default Value

9,000 feet

B68. Common Equipment Investment per Additional Line Increment

Definition

The cost of the common equipment required to add each additional line module in a remote terminal.

Default

Common Equipment Investment per Additional Line Increment	
GR-303	Low Density
672 Lines	120 Lines
\$18,500	\$9,400

B69. Maximum Number of Additional Line Modules per Remote Terminal

Definition

The number of line modules (in increments of 672 or 96 lines) that can be added to a remote terminal.

Default

2	1
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B70. Manhole Investment, materials and labor

Definition

The installed cost of a prefabricated concrete manhole, including backfill and restoration. All the non-italicized costs in the following table are separately adjustable.

Default Value

Copper Cable Manhole Investment						
Density Zone	Materials	Frame & Cover	Site Delivery	Total Material	Excavation & Backfill	Total Installed Manhole
0-5	\$1,865	\$350	\$125	\$2,340	\$2,800	\$5,140
5-100	\$1,865	\$350	\$125	\$2,340	\$2,800	\$5,140
100-200	\$1,865	\$350	\$125	\$2,340	\$2,800	\$5,140
200-650	\$1,865	\$350	\$125	\$2,340	\$2,800	\$5,140
650-850	\$1,865	\$350	\$125	\$2,340	\$3,200	\$5,540
850-2,550	\$1,865	\$350	\$125	\$2,340	\$3,500	\$5,840
2,550-5,000	\$1,865	\$350	\$125	\$2,340	\$3,500	\$5,840
5,000-10,000	\$1,865	\$350	\$125	\$2,340	\$5,000	\$7,340
10,000+	\$1,865	\$350	\$125	\$2,340	\$5,000	\$7,340

B71. Dewatering factor for manhole placement

Definition

Fractional increase in manhole placement to reflect additional cost required to install manholes in presence of shallow water table.

Default

0.20

B72. Water table depth for dewatering

Definition

Water table depth at which dewatering factor is invoked.

Default

6.00 feet

B73. Fiber Feeder Pullbox Investment

Definition

The investment per fiber pullbox in the feeder portion of the network.

Default Values

Fiber Feeder Pullbox Investment		
Density Zone	Pullbox Materials	Pullbox Installation
0-5	\$280	\$220
5-100	\$280	\$220
100-200	\$280	\$220
200-650	\$280	\$220
650-850	\$280	\$220
850-2,550	\$280	\$220
2,550-5,000	\$280	\$220
5,000-10,000	\$280	\$220
10,000+	\$280	\$220

SWITCHING AND INTEROFFICE TRANSMISSION PARAMETERS

B74. Switch real-time limit, busy hour call attempts

Definition

The maximum number of busy hour call attempts (BHCA) a switch can handle. If the model determines that the load on a processor, calculated as the number of busy hour call attempts times the processor feature load multiplier, would exceed the switch real time limit multiplied by the switch maximum processor occupancy, it will require the addition of another switch.

Default Values

Switch Real-time limit, BHCA	
Lines Served	BHCA
1-1,000	10,000
1,000-10,000	50,000
10,000-40,000	200,000
40,000+	600,000

B75. Switch traffic limit, BHCCS

Definition

The maximum amount of traffic, measured in hundreds of call seconds (CCS), the switch can carry in the busy hour (BH).

Default Value

Lines	Busy Hour CCS
1-1,000	30,000
1,000-10,000	150,000
10,000-40,000	600,000
40,000+	1,800,000

B76. Switch maximum equipped line size

Definition

The maximum number of lines plus trunk ports that a typical digital switching machine can support.

Default Value

80,000

B77. Switch port administrative fill

Definition

The percent of lines in a switch that are working compared to the total lines in a switch.

Default Value

0.98

B78. Switch maximum processor occupancy

Definition

The fraction of total capacity (measured in busy hour call attempts, BHCA) an end office switch is allowed to carry before the model adds another switch.

Default Value

0.90

B79. MDF/Protector Investment per Line

Definition

The Main Distribution Frame investment, including protector, required to terminate one line.

Default Value

\$12.00

B80. Analog Line Circuit Offset for DLC lines, per line

Definition

The amount of reduction in per line switched cost caused by the deletion of line cards for lines served by DLC, because the interface to the switch is not on a per line basis.