

The antenna kitting options for signal booster were done for 40 Outdoor Antenna kit options and 65 Indoor Antenna kit options. The order of the attached calculations is as follows:

<b>Outdoor Antenna Kit Options</b>		
1. Kit numbers: 11-100400	15. Kit numbers:10-50300	29. Kit numbers:7-100300
2. Kit numbers: 11-75400	16. Kit numbers:10-30300	30. Kit numbers:7-75300
3. Kit numbers: 11-50400	17. Kit numbers:9-100400	31. Kit numbers:7-50300
4. Kit numbers: 11-30400	18. Kit numbers:9-75400	32. Kit numbers:7-30300
5. Kit numbers: 11-100300	19. Kit numbers:9-50400	33. Kit numbers:5-10400
6. Kit numbers: 11-75300	20. Kit numbers:9-30400	34. Kit numbers:5-75400
7. Kit numbers: 11-50300	21. Kit numbers:9-100300	35. Kit numbers:5-50400
8. Kit numbers: 11-30300	22. Kit numbers:9-75300	36. Kit numbers:5-30400
9. Kit numbers:10-100400	23. Kit numbers:9-50300	37. Kit numbers:5-100300
10. Kit numbers:10-75400	24. Kit numbers:9-30300	38. Kit numbers:5-75300
11. Kit numbers:10-50400	25. Kit numbers:7-100400	39. Kit numbers:5-50300
12. Kit numbers:10-30400	26. Kit numbers:7-75400	40. Kit numbers:5-30300
13. Kit numbers:10-100300	27. Kit numbers:7-50400	
14. Kit numbers:10-75300	28. Kit numbers:7-30400	

<b>Indoor Antenna Kit Options</b>		
1.Kit numbers:102-100400-50	23.Kit numbers:73-50400-50	45.Kit numbers:33-75400-50
2.Kit numbers:102-75400-50	24.Kit numbers:73-30400-50	46.Kit numbers:33-50400-50
3.Kit numbers:103-100400-50	25.Kit numbers:74-100400-50	47.Kit numbers:33-30400-50
4.Kit numbers:103-75400-50	26.Kit numbers:74-75400-50	48.Kit numbers:34-100400-50
5.Kit numbers:103-50400-50	27.Kit numbers:74-50400-50	49.Kit numbers:34-75400-50
6.Kit numbers:103-30400-50	28.Kit numbers:74-30400-50	50.Kit numbers:34-50400-50
7.Kit numbers:104-100400-50	29.Kit numbers:72-100300-50	51.Kit numbers:34-30400-50
8.Kit numbers:104-75400-50	30.Kit numbers:72-75300-50	52.Kit numbers:3-100300-50
9.Kit numbers:104-50400-50	31.Kit numbers:73-100300-50	53.Kit numbers:3-75300-50
10.Kit numbers:104-30400-50	32.Kit numbers:73-75300-50	54.Kit numbers:32-100300-50
11.Kit numbers:102-100300-50	33.Kit numbers:73-50300-50	55.Kit numbers:32-75300-50
12.Kit numbers:102-75300-50	34.Kit numbers:73-30300-50	56.Kit numbers:32-50300-50
13.Kit numbers:103-100300-50	35.Kit numbers:74-100300-50	57.Kit numbers:32-30300-50
14.Kit numbers:103-75300-50	36.Kit numbers:74-75300-50	58.Kit numbers:33-100300-50
15.Kit numbers:103-50300-50	37.Kit numbers:74-50300-50	59.Kit numbers:33-75300-50
16.Kit numbers:104-100300-50	38.Kit numbers:74-30300-50	60.Kit numbers:33-50300-50
17.Kit numbers:104-75300-50	39.Kit numbers:3-100400-50	61.Kit numbers:33-30300-50
18.Kit numbers:104-50300-50	40.Kit numbers:3-75400-50	62.Kit numbers:34-100300-50
19.Kit numbers:72-100400-50	41.Kit numbers:3-50400-50	63.Kit numbers:34-75300-50
20.Kit numbers:72-75400-50	42.Kit numbers:32-100400-50	64.Kit numbers:34-50300-50
21.Kit numbers:73-100400-50	43.Kit numbers:32-75400-50	65.Kit numbers:34-30300-50
22.Kit numbers:73-75400-50	44.Kit numbers:33-100400-50	

## Outdoor Antenna kit Options

Final Output Power Limited to 30 dBm EIRP in all Frequency Bands

Uplink Frequency(MHz)	698-716	776-787	824-849	1710-1755	1850-1915
Uplink Output Power(dBm)	19.2	20.0	20.6	19.5	19.5

1. Wide Band Directional Antenna with 100' 400 N male Kit numbers: 11-100400

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	4	4	4	6	6
Final Gain Less Loss (dB)	6	6	6	5	5
Final Output Power (dBm EIRP)	25.2	26	26.6	24.5	24.5

2. Wide Band Directional Antenna with 75' 400 N male Kit numbers: 11-75400

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Loss (dB)	7	7	7	6.5	6.5
Final Output Power (dBm EIRP)	26.2	27	27.6	26	26

3. Wide Band Directional Antenna with 50' 400 N male Kit numbers: 11-50400

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	2	2	2	3	3
Final Gain Less Loss (dB)	8	8	8	8	8
Final Output Power (dBm EIRP)	27.2	28	28.6	27.5	27.5

4. Wide Band Directional Antenna with 30' 400 N male Kit numbers: 11-30400

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	1.2	1.2	1.2	1.8	1.8
Final Gain Less Loss (dB)	8.8	8.8	8.8	9.2	9.2
Final Output Power (dBm EIRP)	28	28.8	29.4	28.7	28.7

5. Wide Band Directional Antenna with 100' 300 N male Kit numbers: 11-100300

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	6	6	6	9.2	9.2
Final Gain Less Loss (dB)	4	4	4	1.8	1.8
Final Output Power (dBm EIRP)	23.2	24	24.6	21.3	21.3

6. Wide Band Directional Antenna with 75' 300 N male Kit numbers: 11-75300

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	4.5	4.5	4.5	7	7
Final Gain Less Loss (dB)	5.5	5.5	5.5	4	4
Final Output Power (dBm EIRP)	24.7	25.5	26.1	23.5	23.5

7. Wide Band Directional Antenna with 50' 300 N male Kit numbers: 11-50300

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	3	3	3	4.6	4.6
Final Gain Less Loss (dB)	7	7	7	6.4	6.4
Final Output Power (dBm EIRP)	26.2	27	27.6	25.9	25.9

8. Wide Band Directional Antenna with 30' 300 N male

Kit numbers: 11-30300

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	1.8	1.8	1.8	2.8	2.8
Final Gain Less Loss (dB)	8.2	8.2	8.2	8.2	8.2
Final Output Power (dBm EIRP)	27.4	28.2	28.8	27.7	27.7

9. Panel Antenna with 100' 400 N male

Kit numbers: 10-100400

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	4	4	4	6	6
Final Gain Less Loss (dB)	2.5	2.5	2.5	3.4	3.4
Final Output Power (dBm EIRP)	21.7	22.5	23.1	22.9	22.9

10. Panel Antenna with 75' 400 N male

Kit numbers: 10-75400

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Loss (dB)	3.5	3.5	3.5	4.9	4.9
Final Output Power (dBm EIRP)	22.7	23.5	24.1	24.4	24.4

11. Panel Antenna with 50' 400 N male

Kit numbers: 10-50400

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	2	2	2	3	3
Final Gain Less Loss (dB)	4.5	4.5	4.5	6.4	6.4
Final Output Power (dBm EIRP)	23.7	24.5	25.1	25.9	25.9

12. Panel 10dbi Antenna with 30' 400 N male

Kit numbers: 10-30400

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	1.2	1.2	1.2	1.8	1.8
Final Gain Less Loss (dB)	5.3	5.3	5.3	7.6	7.6
Final Output Power (dBm EIRP)	24.5	25.3	25.9	27.1	27.1

13. Panel Antenna with 100' 300 N male

Kit numbers: 10-100300

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	6	6	6	9.2	9.2
Final Gain Less Loss (dB)	0.5	0.5	0.5	0.2	0.2
Final Output Power (dBm EIRP)	19.7	20.5	21.1	19.7	19.7

14. Panel Antenna with 75' 300 N male

Kit numbers: 10-75300

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	4.5	4.5	4.5	7	7

Final Gain Less Loss (dB)	2	2	2	2.4	2.4
Final Output Power (dBm EIRP)	21.2	22	22.6	21.9	21.9

15. Panel Antenna with 50' 300 N male Kit numbers:10-50300

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	3	3	3	4.6	4.6
Final Gain Less Loss (dB)	3.5	3.5	3.5	4.8	4.8
Final Output Power (dBm EIRP)	22.7	23.5	24.1	24.3	24.3

16. Panel Antenna with 30' 300 N male Kit numbers:10-30300

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	1.8	1.8	1.8	2.8	2.8
Final Gain Less Loss (dB)	4.7	4.7	4.7	6.6	6.6
Final Output Power (dBm EIRP)	23.9	24.7	25.3	26.1	26.1

17. Wide Band Directional Antenna with 100' 400 N male Kit numbers:9-100400

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	4	4	4	6	6
Final Gain Less Loss (dB)	4	4	4	3.5	3.5
Final Output Power (dBm EIRP)	23.2	24	24.6	23	23

18. Wide Band Directional Antenna with 75' 400 N male Kit numbers:9-75400

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Loss (dB)	5	5	5	5	5
Final Output Power (dBm EIRP)	24.2	25	25.6	24.5	24.5

19. Wide Band Directional Antenna with 50' 400 N male Kit numbers:9-50400

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	2	2	2	3	3
Final Gain Less Loss (dB)	6	6	6	6.5	6.5
Final Output Power (dBm EIRP)	25.2	26	26.6	26	26

20. Wide Band Directional Antenna with 30' 400 N male Kit numbers:9-30400

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	1.2	1.2	1.2	1.8	1.8
Final Gain Less Loss (dB)	6.8	6.8	6.8	7.7	7.7
Final Output Power (dBm EIRP)	26	26.8	27.4	27.2	27.2

21. Wide Band Directional Antenna with 100' 300 N male Kit numbers:9-100300

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	6	6	6	9.2	9.2
Final Gain Less Loss (dB)	2	2	2	0.3	0.3
Final Output Power (dBm EIRP)	21.2	22	22.6	19.8	19.8

22. Wide Band Directional Antenna with 75' 300 N male Kit numbers:9-75300

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	4.5	4.5	4.5	7	7
Final Gain Less Loss (dB)	3.5	3.5	3.5	2.5	2.5
Final Output Power (dBm EIRP)	22.7	23.5	24.1	22	22

23. Wide Band Directional Antenna with 50' 300 N male Kit numbers:9-50300

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	3	3	3	4.6	4.6
Final Gain Less Loss (dB)	5	5	5	4.9	4.9
Final Output Power (dBm EIRP)	24.2	25	25.6	24.4	24.4

24. Wide Band Directional Antenna with 30' 300 N male Kit numbers:9-30300

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	1.8	1.8	1.8	2.8	2.8
Final Gain Less Loss (dB)	6.2	6.2	6.2	6.7	6.7
Final Output Power (dBm EIRP)	25.4	26.2	26.8	26.2	26.2

25. Panel Antenna with 100' 400 N male Kit numbers:7-100400

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	4	4	4	6	6
Final Gain Less Loss (dB)	3	3	3	1	1
Final Output Power (dBm EIRP)	22.2	23	23.6	20.5	20.5

26. Panel Antenna with 75' 400 N male Kit numbers:7-75400

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Loss (dB)	4	4	4	2.5	2.5
Final Output Power (dBm EIRP)	23.2	24	24.6	22	22

27. Panel Antenna with 50' 400 N male Kit numbers:7-50400

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	2	2	2	3	3
Final Gain Less Loss (dB)	5	5	5	4	4
Final Output Power (dBm EIRP)	24.2	25	25.6	23.5	23.5

28. Panel Antenna with 30' 400 N male Kit numbers:7-30400

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	1.2	1.2	1.2	1.8	1.8
Final Gain Less Loss (dB)	5.8	5.8	5.8	5.2	5.2
Final Output Power (dBm EIRP)	25	25.8	26.4	24.7	24.7

29. Panel Antenna with 100' 300 N male Kit numbers:7-100300

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	6	6	6	9.2	9.2
Final Gain Less Loss (dB)	1	1	1	-2.2	-2.2
Final Output Power (dBm EIRP)	20.2	21	21.6	17.3	17.3

30. Panel Antenna with 75' 300 N male Kit numbers:7-75300

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	4.5	4.5	4.5	7	7
Final Gain Less Loss (dB)	2.5	2.5	2.5	0	0
Final Output Power (dBm EIRP)	21.7	22.5	23.1	19.5	19.5

31. Panel Antenna with 50' 300 N male Kit numbers:7-50300

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	3	3	3	4.6	4.6
Final Gain Less Loss (dB)	4	4	4	2.4	2.4
Final Output Power (dBm EIRP)	23.2	24	24.6	21.9	21.9

32. Panel Antenna with 30' 300 N male Kit numbers:7-30300

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	1.8	1.8	1.8	2.8	2.8
Final Gain Less Loss (dB)	5.2	5.2	5.2	4.2	4.2
Final Output Power (dBm EIRP)	24.4	25.2	25.8	23.7	23.7

33. Omni Directional Antenna with 100' 400 N male Kit numbers:5-10400

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	4	4	4	6	6
Final Gain Less Loss (dB)	1	1	1	-1	-1
Final Output Power (dBm EIRP)	20.2	21	21.6	18.5	18.5

34. Omni Directional Antenna with 75' 400 N male Kit numbers:5-75400

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Loss (dB)	2	2	2	0.5	0.5
Final Output Power (dBm EIRP)	21.2	22	22.6	20	20

35. Omni Directional Antenna with 50' 400 N male Kit numbers:5-50400

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	2	2	2	3	3
Final Gain Less Loss (dB)	3	3	3	2	2
Final Output Power (dBm EIRP)	22.2	23	23.6	21.5	21.5

36. Omni Directional Antenna with 30' 400 N male Kit numbers:5-30400

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	1.2	1.2	1.2	1.8	1.8

Final Gain Less Loss (dB)	3.8	3.8	3.8	3.2	3.2
Final Output Power (dBm EIRP)	23	23.8	24.4	22.7	22.7

37.Omni Directional Antenna with 100' 300 N male

Kit numbers:5-100300

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	6	6	6	9.2	9.2
Final Gain Less Loss (dB)	-1	-1	-1	-4.2	-4.2
Final Output Power (dBm EIRP)	18.2	19	19.6	15.3	15.3

38.Omni Directional Antenna with 75' 300 N male

Kit numbers:5-75300

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	4.5	4.5	4.5	7	7
Final Gain Less Loss (dB)	0.5	0.5	0.5	-2	-2
Final Output Power (dBm EIRP)	19.7	20.5	21.1	17.5	17.5

39.Omni Directional Antenna with 50' 300 N male

Kit numbers:5-50300

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	3	3	3	4.6	4.6
Final Gain Less Loss (dB)	2	2	2	0.4	0.4
Final Output Power (dBm EIRP)	21.2	22	22.6	19.9	19.9

40.Omni Directional Antenna with 30' 300 N male

Kit numbers:5-30300

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	1.8	1.8	1.8	2.8	2.8
Final Gain Less Loss (dB)	3.2	3.2	3.2	2.2	2.2
Final Output Power (dBm EIRP)	22.4	23.2	23.8	21.7	21.7

## Indoor Antenna kit Options

Uplink Frequency(MHz)	698-716	776-787	824-849	1710-1755	1850-1915
Measured Uplink Gain(dB)	58.0	56.8	58.5	66.2	65.7
MSCL Minimum (dB)	36.2	37.1	37.7	43.0	43.7
6' Separation Distance Path Loss (dB)	34.7	35.6	36.2	42.5	43.2
Polarity Loss (dB)	3.0	3.0	3.0	3.0	3.0
Max Antenna Gain with Coax Loss (dB)	1.5	1.5	1.5	2.5	2.5

### 1.2 Panel Antenna with 100' 400 N male & a 50 Ohm 2-Way Splitter      Kit numbers:102-100400-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	7.5	7.5	7.5	9.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-1	-1	-1	-0.1	-0.1
Margin (dB)	-2.50	-2.47	-2.46	-2.58	-2.59

### 2.2 Panel Antenna with 75' 400 N male & a 50 Ohm 2-Way Splitter      Kit numbers:102-75400-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	6.5	6.5	6.5	8	8
Final Gain Less Splitter/Coax Loss (dB)	0	0	0	1.4	1.4
Margin (dB)	-1.50	-1.47	-1.46	-1.08	-1.09

### 3.3 Panel Antenna with 100' 400 N male & a 50 Ohm 3-Way Splitter      Kit numbers:103-100400-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	9.5	9.5	9.5	11.5	11.5
Final Gain Less Splitter/Coax Loss (dB)	-3	-3	-3	-2.1	-2.1
Margin (dB)	-4.50	-4.47	-4.46	-4.58	-4.59

### 4.3 Panel Antenna with 75' 400 N male & a 50 Ohm 3-Way Splitter      Kit numbers:103-75400-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	8.5	8.5	8.5	10	10
Final Gain Less Splitter/Coax Loss (dB)	-2	-2	-2	-0.6	-0.6
Margin (dB)	-3.50	-3.47	-3.46	-3.08	-3.09

### 5.3 Panel Antenna with 50' 400 N male & a 50 Ohm 3-Way Splitter      Kit numbers:103-50400-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	7.5	7.5	7.5	8.5	8.5
Final Gain Less Splitter/Coax Loss (dB)	-1	-1	-1	0.9	0.9
Margin (dB)	-2.50	-2.47	-2.46	-1.58	-1.59

### 6.3 Panel Antenna with 30' 400 N male & a 50 Ohm 3-Way Splitter      Kit numbers:103-30400-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	6.7	6.7	6.7	7.3	7.3
Final Gain Less Splitter/Coax Loss (dB)	-0.2	-0.2	-0.2	2.1	2.1



Margin (dB)	-1.70	-1.67	-1.66	-0.38	-0.39
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7.4 Panel Antenna with 100' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-100400-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	10.5	10.5	10.5	12.5	12.5
Final Gain Less Splitter/Coax Loss (dB)	-4	-4	-4	-3.1	-3.1
Margin (dB)	-5.50	-5.47	-5.46	-5.58	-5.59

8.4 Panel Antenna with 75' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-75400-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	9.5	9.5	9.5	11	11
Final Gain Less Splitter/Coax Loss (dB)	-3	-3	-3	-1.6	-1.6
Margin (dB)	-4.50	-4.47	-4.46	-4.08	-4.09

9.4 Panel Antenna with 50' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-50400-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	8.5	8.5	8.5	9.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-2	-2	-2	-0.1	-0.1
Margin (dB)	-3.50	-3.47	-3.46	-2.58	-2.59

10.4 Panel Antenna with 30' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-30400-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	7.7	7.7	7.7	8.3	8.3
Final Gain Less Splitter/Coax Loss (dB)	-1.2	-1.2	-1.2	1.1	1.1
Margin (dB)	-2.70	-2.67	-2.66	-1.38	-1.39

11.2 Panel Antenna with 100' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:102-100300-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	9.5	9.5	9.5	12.7	12.7
Final Gain Less Splitter/Coax Loss (dB)	-3	-3	-3	-3.3	-3.3
Margin (dB)	-3.00	-3.00	-3.00	-3.30	-3.30

12.2 Panel Antenna with 75' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:102-75300-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	8	8	8	10.5	10.5
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-1.5	-1.5	-1.1	-1.1
Margin (dB)	-1.50	-1.50	-1.50	-1.10	-1.10

13.3 Panel Antenna with 100' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-100300-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	11.5	11.5	11.5	14.7	14.7
Final Gain Less Splitter/Coax Loss (dB)	-5	-5	-5	-5.3	-5.3
Margin (dB)	-5.00	-5.00	-5.00	-5.30	-5.30

14.3 Panel Antenna with 75' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-75300-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	10	10	10	12.5	12.5
Final Gain Less Splitter/Coax Loss (dB)	-3.5	-3.5	-3.5	-3.1	-3.1
Margin (dB)	-3.50	-3.50	-3.50	-3.10	-3.10

15.3 Panel Antenna with 50' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-50300-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	8.5	8.5	8.5	10.1	10.1
Final Gain Less Splitter/Coax Loss (dB)	-2	-2	-2	-0.7	-0.7
Margin (dB)	-2.00	-2.00	-2.00	-0.70	-0.70

16.4 Panel Antenna with 100' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-100300-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	12.5	12.5	12.5	15.7	15.7
Final Gain Less Splitter/Coax Loss (dB)	-6	-6	-6	-6.3	-6.3
Margin (dB)	-6.00	-6.00	-6.00	-6.30	-6.30

17.4 Panel Antenna with 75' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-75300-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	11	11	11	13.5	13.5
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-4.5	-4.5	-4.1	-4.1
Margin (dB)	-4.50	-4.50	-4.50	-4.10	-4.10

18.4 Panel Antenna with 50' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-50300-50

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Splitter/Coax Loss (dB)	9.5	9.5	9.5	11.1	11.1
Final Gain Less Splitter/Coax Loss (dB)	-3	-3	-3	-1.7	-1.7
Margin (dB)	-3.00	-3.00	-3.00	-1.70	-1.70

19.2 Panel Antenna with 100' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-100400-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	7.5	7.5	7.5	9.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-0.5	-0.5	-0.5	-2.5	-2.5
Margin (dB)	-2.00	-1.97	-1.96	-4.98	-4.99

20.2 Panel Antenna with 75' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-75400-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	6.5	6.5	6.5	8	8
Final Gain Less Splitter/Coax Loss (dB)	0.5	0.5	0.5	-1	-1
Margin (dB)	-1.00	-0.97	-0.96	-3.48	-3.49

21.3 Panel Antenna with 100' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-100400-50

Antenna Gain (dBi)	7	7	7	7	7
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Splitter/Coax Loss (dB)	9.5	9.5	9.5	11.5	11.5
Final Gain Less Splitter/Coax Loss (dB)	-2.5	-2.5	-2.5	-4.5	-4.5
Margin (dB)	-4.00	-3.97	-3.96	-6.98	-6.99

22.3 Panel Antenna with 75' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-75400-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	8.5	8.5	8.5	10	10
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-1.5	-1.5	-3	-3
Margin (dB)	-3.00	-2.97	-2.96	-5.48	-5.49

23.3 Panel Antenna with 50' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-50400-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	7.5	7.5	7.5	8.5	8.5
Final Gain Less Splitter/Coax Loss (dB)	-0.5	-0.5	-0.5	-1.5	-1.5
Margin (dB)	-2.00	-1.97	-1.96	-3.98	-3.99

24.3 Panel Antenna with 30' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-30400-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	6.7	6.7	6.7	7.3	7.3
Final Gain Less Splitter/Coax Loss (dB)	0.3	0.3	0.3	-0.3	-0.3
Margin (dB)	-1.20	-1.17	-1.16	-2.78	-2.79

25.4 Panel Antenna with 100' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-100400-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	10.5	10.5	10.5	12.5	12.5
Final Gain Less Splitter/Coax Loss (dB)	-3.5	-3.5	-3.5	-5.5	-5.5
Margin (dB)	-5.00	-4.97	-4.96	-7.98	-7.99

26.4 Panel Antenna with 75' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-75400-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	9.5	9.5	9.5	11	11
Final Gain Less Splitter/Coax Loss (dB)	-2.5	-2.5	-2.5	-4	-4
Margin (dB)	-4.00	-3.97	-3.96	-6.48	-6.49

27.4 Panel Antenna with 50' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-50400-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	8.5	8.5	8.5	9.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-1.5	-1.5	-2.5	-2.5
Margin (dB)	-3.00	-2.97	-2.96	-4.98	-4.99

28.4 Panel Antenna with 30' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-30400-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	7.7	7.7	7.7	8.3	8.3
Final Gain Less Splitter/Coax Loss (dB)	-0.7	-0.7	-0.7	-1.3	-1.3

Margin (dB)	-2.20	-2.17	-2.16	-3.78	-3.79
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29.2 Panel Antenna with 100' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-100300-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	9.5	9.5	9.5	12.7	12.7
Final Gain Less Splitter/Coax Loss (dB)	-2.5	-2.5	-2.5	-5.7	-5.7
Margin (dB)	-2.50	-2.50	-2.50	-5.70	-5.70

30.2 Panel Antenna with 75' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-75300-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	8	8	8	10.5	10.5
Final Gain Less Splitter/Coax Loss (dB)	-1	-1	-1	-3.5	-3.5
Margin (dB)	-1.00	-1.00	-1.00	-3.50	-3.50

31.3 Panel Antenna with 100' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-100300-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	11.5	11.5	11.5	14.7	14.7
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-4.5	-4.5	-7.7	-7.7
Margin (dB)	-4.50	-4.50	-4.50	-7.70	-7.70

32.3 Panel Antenna with 75' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-75300-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	10	10	10	12.5	12.5
Final Gain Less Splitter/Coax Loss (dB)	-3	-3	-3	-5.5	-5.5
Margin (dB)	-3.00	-3.00	-3.00	-5.50	-5.50

33.3 Panel Antenna with 50' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-50300-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	8.5	8.5	8.5	10.1	10.1
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-1.5	-1.5	-3.1	-3.1
Margin (dB)	-1.50	-1.50	-1.50	-3.10	-3.10

34.3 Panel Antenna with 30' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-30300-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	7.3	7.3	7.3	8.3	8.3
Final Gain Less Splitter/Coax Loss (dB)	-0.3	-0.3	-0.3	-1.3	-1.3
Margin (dB)	-0.30	-0.30	-0.30	-1.30	-1.30

35.4 Panel Antenna with 100' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-100300-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	12.5	12.5	12.5	15.7	15.7
Final Gain Less Splitter/Coax Loss (dB)	-5.5	-5.5	-5.5	-8.7	-8.7
Margin (dB)	-5.50	-5.50	-5.50	-8.70	-8.70

36.4 Panel Antenna with 75' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-75300-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	11	11	11	13.5	13.5
Final Gain Less Splitter/Coax Loss (dB)	-4	-4	-4	-6.5	-6.5
Margin (dB)	-4.00	-4.00	-4.00	-6.50	-6.50

37.4 Panel Antenna with 50' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-50300-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	9.5	9.5	9.5	11.1	11.1
Final Gain Less Splitter/Coax Loss (dB)	-2.5	-2.5	-2.5	-4.1	-4.1
Margin (dB)	-2.50	-2.50	-2.50	-4.10	-4.10

38.4 Panel Antenna with 30' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-30300-50

Antenna Gain (dBi)	7	7	7	7	7
Splitter/Coax Loss (dB)	8.3	8.3	8.3	9.3	9.3
Final Gain Less Splitter/Coax Loss (dB)	-1.3	-1.3	-1.3	-2.3	-2.3
Margin (dB)	-1.30	-1.30	-1.30	-2.30	-2.30

39.1 Dome Antenna with 100' 400 N male

Kit numbers:3-100400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	4	4	4	6	6
Final Gain Less Splitter/Coax Loss (dB)	-1	-1	-1	-3	-3
Margin (dB)	-2.50	-2.47	-2.46	-5.48	-5.49

40.1 Dome Antenna with 75' 400 N male

Kit numbers:3-75400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Splitter/Coax Loss (dB)	0	0	0	-1.5	-1.5
Margin (dB)	-1.50	-1.47	-1.46	-3.98	-3.99

41.1 Dome Antenna with 50' 400 N male

Kit numbers:3-50400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	2	2	2	3	3
Final Gain Less Splitter/Coax Loss (dB)	1	1	1	0	0
Margin (dB)	-0.50	-0.47	-0.46	-2.48	-2.49

42.2 Dome Antenna with 100' 400 N male & a 50 Ohm 2-Way Splitter

Kit numbers:32-100400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	7.5	7.5	7.5	9.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-4.5	-4.5	-6.5	-6.5
Margin (dB)	-6.00	-5.97	-5.96	-8.98	-8.99

43.2 Dome Antenna with 75' 400 N male & a 50 Ohm 2-Way Splitter

Kit numbers:32-75400-50

Antenna Gain (dBi)	3	3	3	3	3
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Splitter/Coax Loss (dB)	6.5	6.5	6.5	8	8
Final Gain Less Splitter/Coax Loss (dB)	-3.5	-3.5	-3.5	-5	-5
Margin (dB)	-5.00	-4.97	-4.96	-7.48	-7.49

44.3 Dome Antenna with 100' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-100400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	9.5	9.5	9.5	11.5	11.5
Final Gain Less Splitter/Coax Loss (dB)	-6.5	-6.5	-6.5	-8.5	-8.5
Margin (dB)	-8.00	-7.97	-7.96	-10.98	-10.99

45.3 Dome Antenna with 75' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-75400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	8.5	8.5	8.5	10	10
Final Gain Less Splitter/Coax Loss (dB)	-5.5	-5.5	-5.5	-7	-7
Margin (dB)	-7.00	-6.97	-6.96	-9.48	-9.49

46.3 Dome Antenna with 50' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-50400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	7.5	7.5	7.5	8.5	8.5
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-4.5	-4.5	-5.5	-5.5
Margin (dB)	-6.00	-5.97	-5.96	-7.98	-7.99

47.3 Dome Antenna with 30' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-30400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	6.7	6.7	6.7	7.3	7.3
Final Gain Less Splitter/Coax Loss (dB)	-3.7	-3.7	-3.7	-4.3	-4.3
Margin (dB)	-5.20	-5.17	-5.16	-6.78	-6.79

48.4 Dome Antenna with 100' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-100400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	10.5	10.5	10.5	12.5	12.5
Final Gain Less Splitter/Coax Loss (dB)	-7.5	-7.5	-7.5	-9.5	-9.5
Margin (dB)	-9.00	-8.97	-8.96	-11.98	-11.99

49.4 Dome Antenna with 75' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-75400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	9.5	9.5	9.5	11	11
Final Gain Less Splitter/Coax Loss (dB)	-6.5	-6.5	-6.5	-8	-8
Margin (dB)	-8.00	-7.97	-7.96	-10.48	-10.49

50.4 Dome Antenna with 50' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-50400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	8.5	8.5	8.5	9.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-5.5	-5.5	-5.5	-6.5	-6.5

Margin (dB)	-7.00	-6.97	-6.96	-8.98	-8.99
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51.4 Dome Antenna with 30' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-30400-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	7.7	7.7	7.7	8.3	8.3
Final Gain Less Splitter/Coax Loss (dB)	-4.7	-4.7	-4.7	-5.3	-5.3
Margin (dB)	-6.20	-6.17	-6.16	-7.78	-7.79

52.1 Dome Antenna with 100' 300 N male Kit numbers:3-100300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	6	6	6	9.2	9.2
Final Gain Less Splitter/Coax Loss (dB)	-3	-3	-3	-6.2	-6.2
Margin (dB)	-3.00	-3.00	-3.00	-6.20	-6.20

53.1 Dome Antenna with 75' 300 N male Kit numbers:3-75300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	4.5	4.5	4.5	7	7
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-1.5	-1.5	-4	-4
Margin (dB)	-1.50	-1.50	-1.50	-4.00	-4.00

54.2 Dome Antenna with 100' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-100300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	9.5	9.5	9.5	12.7	12.7
Final Gain Less Splitter/Coax Loss (dB)	-6.5	-6.5	-6.5	-9.7	-9.7
Margin (dB)	-6.50	-6.50	-6.50	-9.70	-9.70

55.2 Dome Antenna with 75' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-75300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	8	8	8	10.5	10.5
Final Gain Less Splitter/Coax Loss (dB)	-5	-5	-5	-7.5	-7.5
Margin (dB)	-5.00	-5.00	-5.00	-7.50	-7.50

56.2 Dome Antenna with 50' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-50300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	6.5	6.5	6.5	8.1	8.1
Final Gain Less Splitter/Coax Loss (dB)	-3.5	-3.5	-3.5	-5.1	-5.1
Margin (dB)	-3.50	-3.50	-3.50	-5.10	-5.10

57.2 Dome Antenna with 30' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-30300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	5.3	5.3	5.3	6.3	6.3
Final Gain Less Splitter/Coax Loss (dB)	-2.3	-2.3	-2.3	-3.3	-3.3
Margin (dB)	-2.30	-2.30	-2.30	-3.30	-3.30

58.3 Dome Antenna with 100' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-100300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	11.5	11.5	11.5	14.7	14.7
Final Gain Less Splitter/Coax Loss (dB)	-8.5	-8.5	-8.5	-11.7	-11.7
Margin (dB)	-8.50	-8.50	-8.50	-11.70	-11.70

59.3 Dome Antenna with 75' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-75300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	10	10	10	12.5	12.5
Final Gain Less Splitter/Coax Loss (dB)	-7	-7	-7	-9.5	-9.5
Margin (dB)	-7.00	-7.00	-7.00	-9.50	-9.50

60.3 Dome Antenna with 50' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-50300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	8.5	8.5	8.5	10.1	10.1
Final Gain Less Splitter/Coax Loss (dB)	-5.5	-5.5	-5.5	-7.1	-7.1
Margin (dB)	-5.50	-5.50	-5.50	-7.10	-7.10

61.3 Dome Antenna with 30' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-30300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	7.3	7.3	7.3	8.3	8.3
Final Gain Less Splitter/Coax Loss (dB)	-4.3	-4.3	-4.3	-5.3	-5.3
Margin (dB)	-4.30	-4.30	-4.30	-5.30	-5.30

62.4 Dome Antenna with 100' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-100300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	12.5	12.5	12.5	15.7	15.7
Final Gain Less Splitter/Coax Loss (dB)	-9.5	-9.5	-9.5	-12.7	-12.7
Margin (dB)	-9.50	-9.50	-9.50	-12.70	-12.70

63.4 Dome Antenna with 75' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-75300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	11	11	11	13.5	13.5
Final Gain Less Splitter/Coax Loss (dB)	-8	-8	-8	-10.5	-10.5
Margin (dB)	-8.00	-8.00	-8.00	-10.50	-10.50

64.4 Dome Antenna with 50' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-50300-50

Antenna Gain (dBi)	3	3	3	3	3
Splitter/Coax Loss (dB)	9.5	9.5	9.5	11.1	11.1
Final Gain Less Splitter/Coax Loss (dB)	-6.5	-6.5	-6.5	-8.1	-8.1
Margin (dB)	-6.50	-6.50	-6.50	-8.10	-8.10

65.4 Dome Antenna with 30' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-30300-50

Antenna Gain (dBi)	3	3	3	3	3
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Splitter/Coax Loss (dB)	8.3	8.3	8.3	9.3	9.3
Final Gain Less Splitter/Coax Loss (dB)	-5.3	-5.3	-5.3	-6.3	-6.3
Margin (dB)	-5.30	-5.30	-5.30	-6.30	-6.30