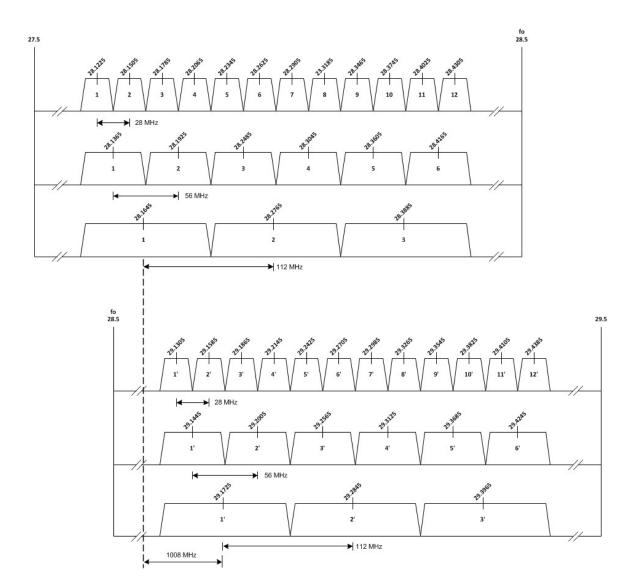
RF CHANNEL ARRANGEMENTS



CHANNEL CENTRE FREQUENCIES (GHz)											
28 MHz Channels			56 MHz Channels			112 MHz Channels					
1	1'	28.1225	29.1305	1	1'	28.1365	29.1445	1	1'	28.1645	29.1725
2	2'	28.1505	29.1585								
3	3'	28.1785	29.1865	2	2'	28.1925	29.2005				
4	4'	28.2065	29.2145								
5	5'	28.2345	29.2425	3	3'	28.2485	29.2565	2	2'	28.2765	29.2845
6	6'	28.2625	29.2705								
7	7'	28.2905	29.2985	4	4'	28.3045	29.3125				
8	8'	28.3185	29.3265								
9	9'	28.3465	29.3545	5	5'	28.3605	29.3685	3	3'	28.3885	29.3965
10	10'	28.3745	29.3825								
11	11'	28.4025	29.4105	6	6'	28.4165	29.4245				
12	12'	28.4305	29.4385								

[28 GHz - Page 1 of 5]

ASSIGNMENT INSTRUCTIONS

Effective 23 September 2019, no new assignments may be made in this band

[28 GHz - Page 2 of 5]

PROTECTION RATIOS

Protection ratios required between digital systems operating in various channel bandwidths (with offset between centre frequencies Δf) are provided in the tables below

1. Protection ratios required for 28 MHz channels.

Frequency Offset (MHz)	$28~\mathrm{MHz} \rightarrow 28~\mathrm{MHz}$	56 MHz \rightarrow 28 MHz	112 MHz \rightarrow 28 MHz
0	64		
14		61	58
28	35		
42		34	57
56	14		
70		17	34
98		10	17
126		9	14
154			12
184			7
210			6

2. Protection ratios required for 56 MHz channels.

Frequency Offset (MHz)	$28 \text{ MHz} \rightarrow 56 \text{ MHz}$	56 MHz \rightarrow 56 MHz	$112 \text{ MHz} \rightarrow 56 \text{ MHz}$
0		64	
14	64		
28			61
42	38		
56		35	
70	14		
84			34
98	9		
112		14	
126	9		
140			17

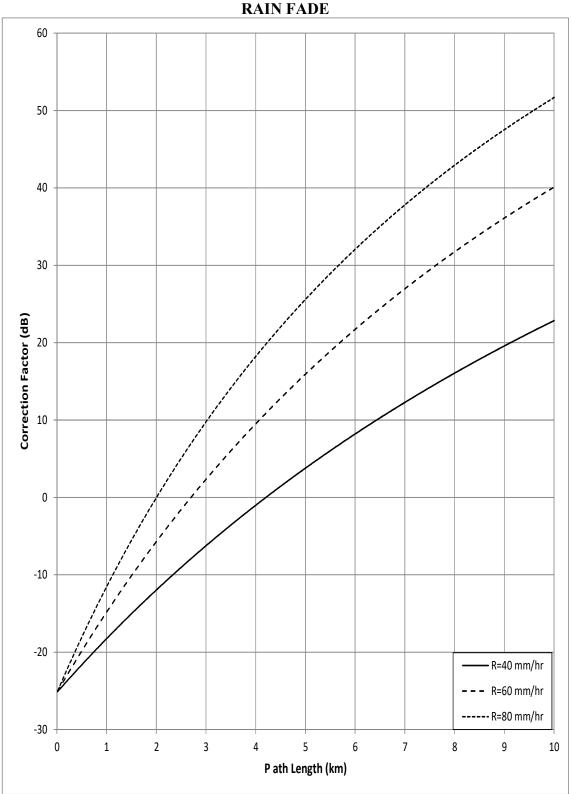
Frequency Offset (MHz)	$28 \text{ MHz} \rightarrow 112 \text{ MHz}$	$56 \text{ MHz} \rightarrow 112 \text{ MHz}$	$112 \text{ MHz} \rightarrow 112 \text{ MHz}$	
0			64	
14	65			
28		64		
42	63			
70	43			
84		38		
98	13			
112			35	
126	9			
140		14		
154	9			
196		9		
224			14	

3. Protection ratios required for 112 MHz channels.

Notes:

1. Protection ratio for digital systems are based on a 2 km path length and R (Rainfall rate in mm/hr for 0.01% of the worst month) of 80 mm/hr using Recommendation ITU-R P.530-15, Section 2.4 as outlined in spectrum planning report SPP 2014/07. For other path lengths and rainfall rates refer to the appropriate path length correction factors graph on the following page, these are calculated in accordance with RALI FX 3 Appendix 4, section 4.1.3.

PROTECTION RATIO CORRECTION FACTORS



R: Rainfall rate in mm/hr for 0.01% of the worst month.

For further details refer to Annex A to Appendix 1.