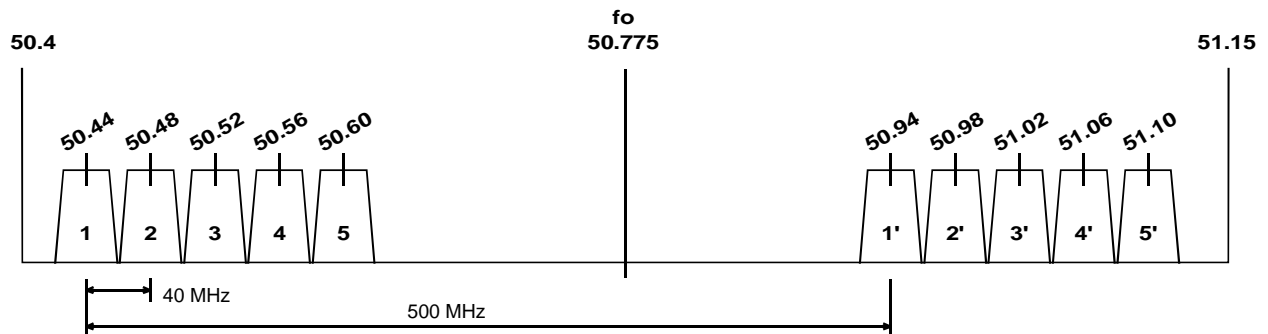


## THE 50 GHz BAND (50.4 - 51.15 GHz)

### RF CHANNEL ARRANGEMENTS



### ASSIGNMENT INSTRUCTIONS

This band is designated for use by fixed point-to-point links.

**Typical Use** : 2/8 Mbit/s data, FM video.

**Assignment Priority** : from lowest upward, unless a specific channel is requested.

**Minimum Path Length** : not specified

**Antenna Requirements** : refer to Appendix 11

#### Notes:

1. For allocation of channels see Reference 1.
2. This is an interim channel arrangement which may be subject to review. Special Condition BL shall be applied to all licences.

#### Reference

1. ACA File R93-1149, "Frequency Band Usage 15 GHz and Above".

## THE 50 GHz BAND (50.4 - 51.15 GHz)

### PROTECTION RATIOS

1. Protection ratios required between digital systems operating on the same channel arrangements.

Co channel	60 dB
1st Adjacent Channel	0 dB

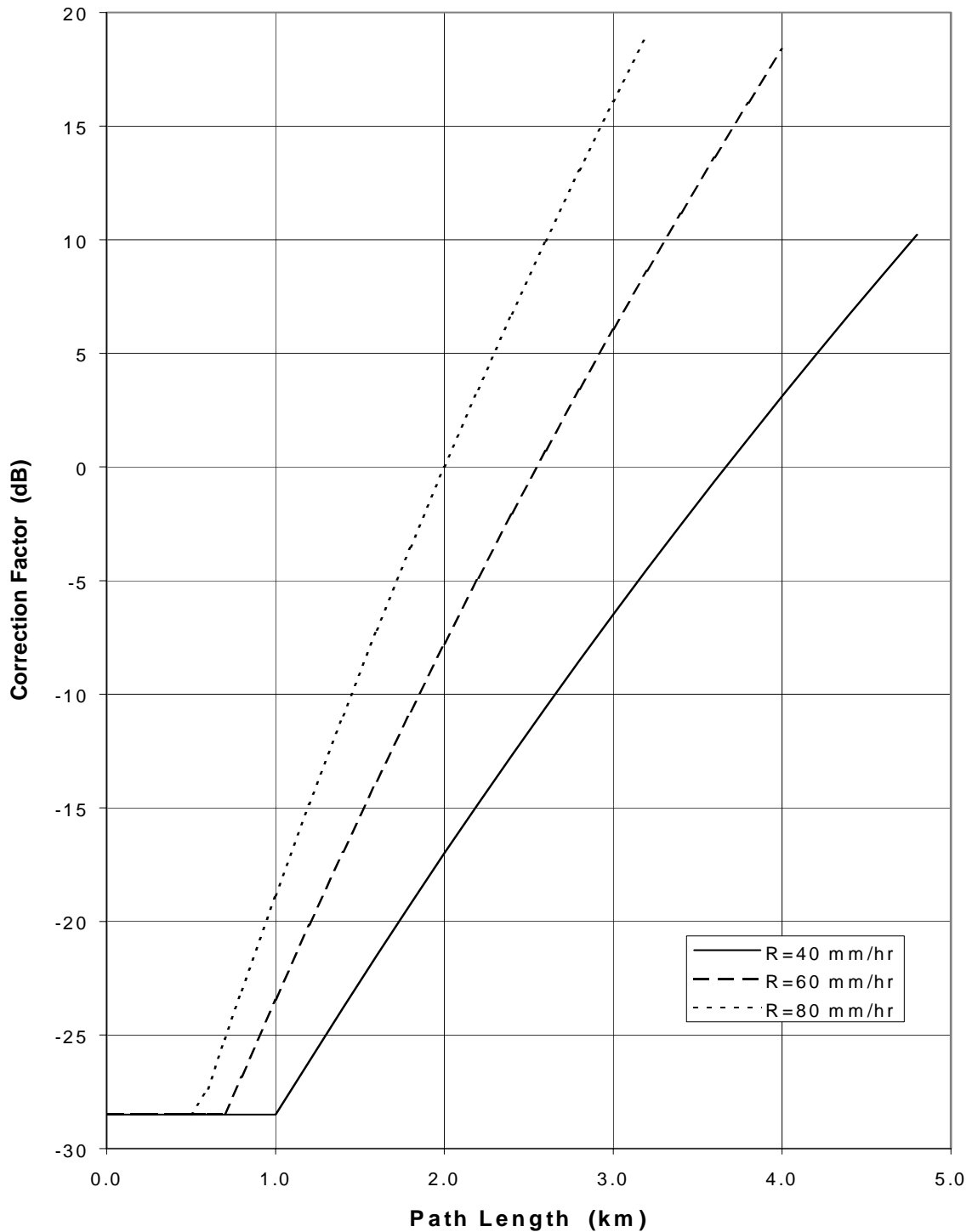
#### Notes:

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. For other path lengths and rainfall rates refer to the appropriate protection ratio correction factors graph on the following page.

# THE 50 GHz BAND (50.4 - 51.15 GHz)

## PROTECTION RATIO CORRECTION FACTORS

### RAIN FADE



R: Rainfall rate in mm/hr for 0.01% of the worst month.  
For further details refer to Annex A to Appendix 1.