

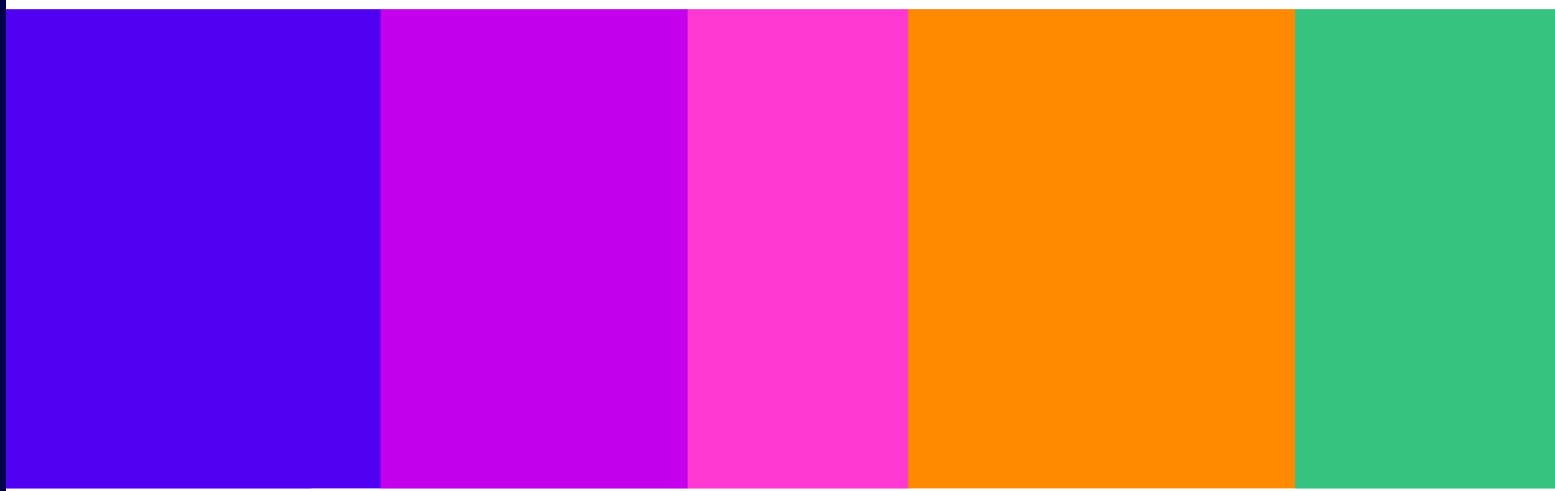
OfW48

UK Frequency Allocation for Fixed (Point-to-Point) Wireless Services and Scanning Telemetry

Frequency Charts

Published 26 August 2026

Version 13



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1. Overview

- 1.1 This document shows the current bands managed by Ofcom that are available for fixed terrestrial (point-to-point) links and scanning telemetry in the UK.

2. Technical regulations

- 2.1 The Radio Equipment Directive (Directive 2014/53/EU) was implemented in the United Kingdom (UK) by the Radio Equipment Regulations 2017. In accordance with Articles 8 and 7 of Directive 2014/53/EU, the [IR2000](#): The UK Interface Requirement 2000 (IR) contains the requirements for the licensing and use of fixed (point-to-point) wireless services in the UK.
- 2.2 [IR2037](#): The UK Interface Requirement 2037 applies for scanning telemetry services.
- 2.3 [IR2106](#): The UK Interface Requirement 2106 applies for the 60 GHz.

3. Notes specific to the frequency charts

- 3.1 The first column describes each available frequency band, represented by a diagram (not to scale). The frequency band limits are listed below the diagram; frequencies below 10 GHz are represented in MHz, while those above 10 GHz are in GHz. The width of each guard band is shown above the diagram and is always specified in MHz.
- 3.2 The channel arrangements in some bands are staggered, so that the width and position of the guard band vary for different channel spacings. In these cases, a table underneath gives details of the guard bands for different spacings (with all frequencies in MHz).
- 3.3 The first column also includes the title of the relevant international recommendations for each band, produced by the European Conference of Postal and Telecommunications (CEPT) or the International Telecommunication Union (ITU). CEPT recommendations are available at <http://www.cept.org/ecc/> and ITU Recommendations at <http://www.itu.int>.
- 3.4 The final column contains the channel spacing for duplex operation in each frequency band except for bands above 60 GHz.
- 3.5 Details of standard systems assigned in the UK are shown in the relevant technical frequency assignment criteria.

4. Notes specific to the frequency bands

450 MHz band

The Scanning Telemetry Band is used by fixed terrestrial point to multipoint radio-based System Control and Data Acquisition (SCADA) networks which control and monitor remote applications (i.e. telecontrol, telemetry, data distribution and gathering systems).

4 GHz

The frequency ranges 3.600 to 3.680 GHz paired with 3.925 to 4.009 GHz are block licensed and are not available from Ofcom for point to point links.

From 25 July 2017, channels within the frequency ranges of 3.695 GHz to 3.815 GHz paired with 4.015 GHz to 4.135 GHz, i.e. channels 4,...,7 on the 30 MHz channel raster and channels 7,.. 14 on the 15 MHz channel raster are not available for point to point assignments. For further details see the statement and consultation on improving consumer access to mobile services at 3.6 GHz to 3.8GHz.

18 GHz

The Soft Boundary Frequency Assignment (SBFA) method is employed at 18 GHz. This approach to frequency assignment encourages the development of link communities based on modulation order with the aim of reducing inequalities between link assignments.

For more information on the 'Soft Boundary Assignment Approach' refer to the Technical Frequency Assignment Criteria for this band, available from <http://www.ofcom.org.uk>.

32 GHz

Four 28 MHz channels and two 56 MHz channels are available for technical assignment. The 56 MHz channels are specifically defined nationally with a Tx/Rx separation of 812 MHz.

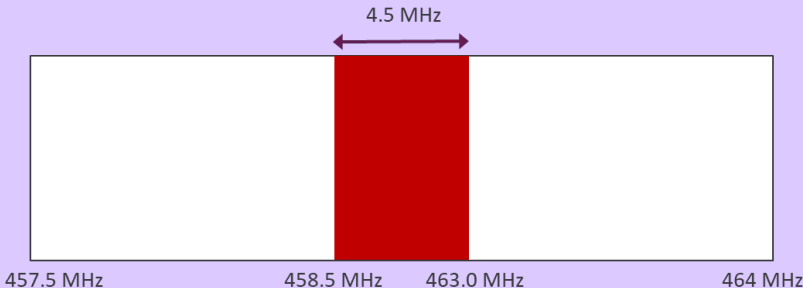
60 GHz

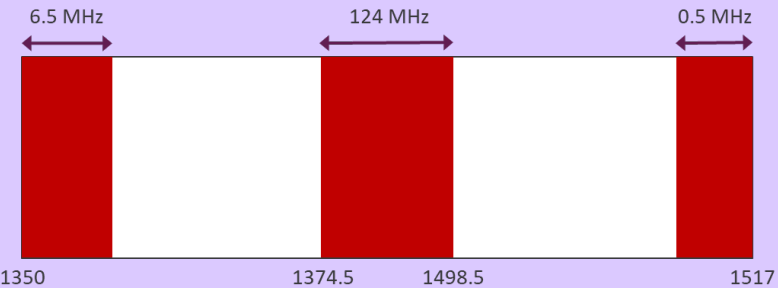
Fixed wireless systems conforming to [IR2106](#) are exempt from licensing in this band.

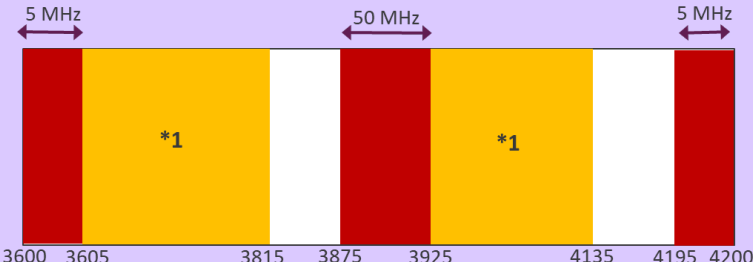
73.375 –75.875 GHz and 83.375–85.875 GHz

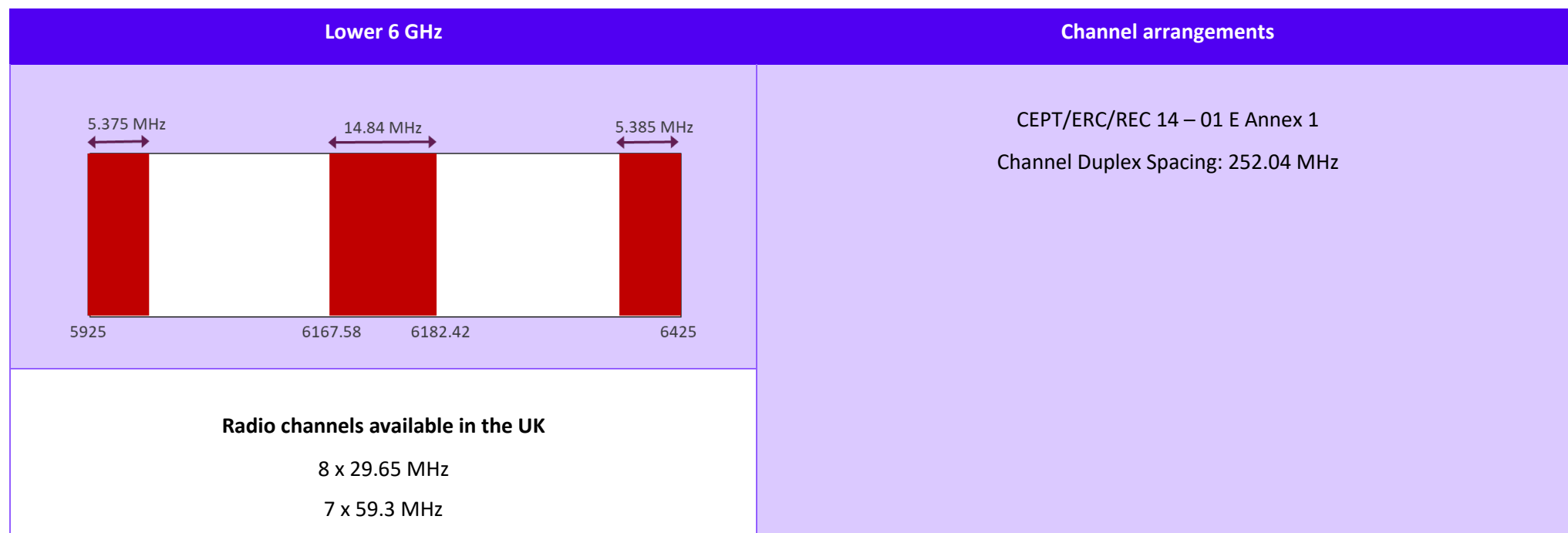
These are self-coordinated bands.

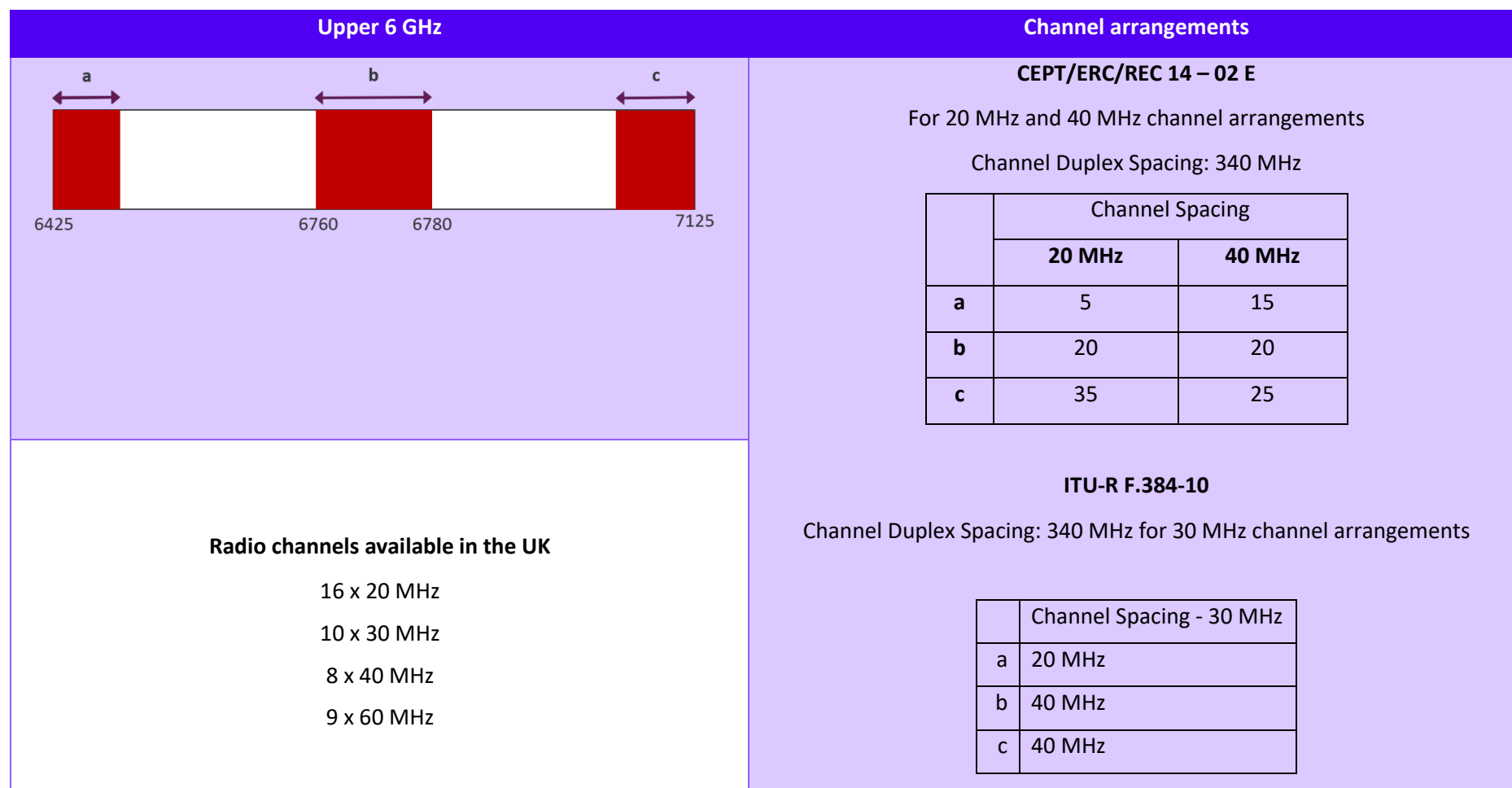
5. Frequency charts

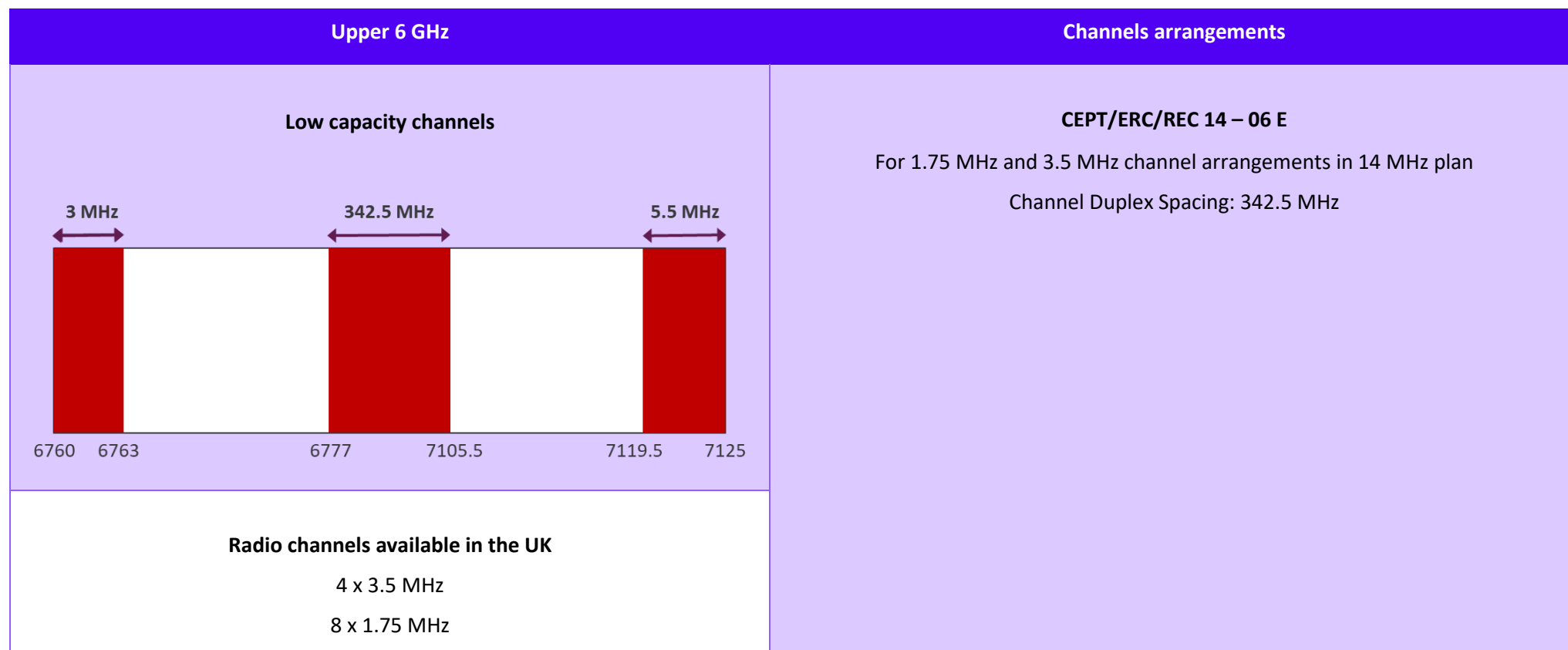
450 MHz	Data Transmission Range (kbit/s)	Cell Structure	Basic parameters
 Channel Duplex Spacing: 5.5 MHz	1200 to 2400	6 channels per cell giving 2 channels per utility. 12 channels per cluster giving a co-channel re-use distance of 150 km. A potential channel re-use of 23 times across the UK.	System availability approaching 99.9%; and typical co-channel carrier to interference ratio of 26 dB.

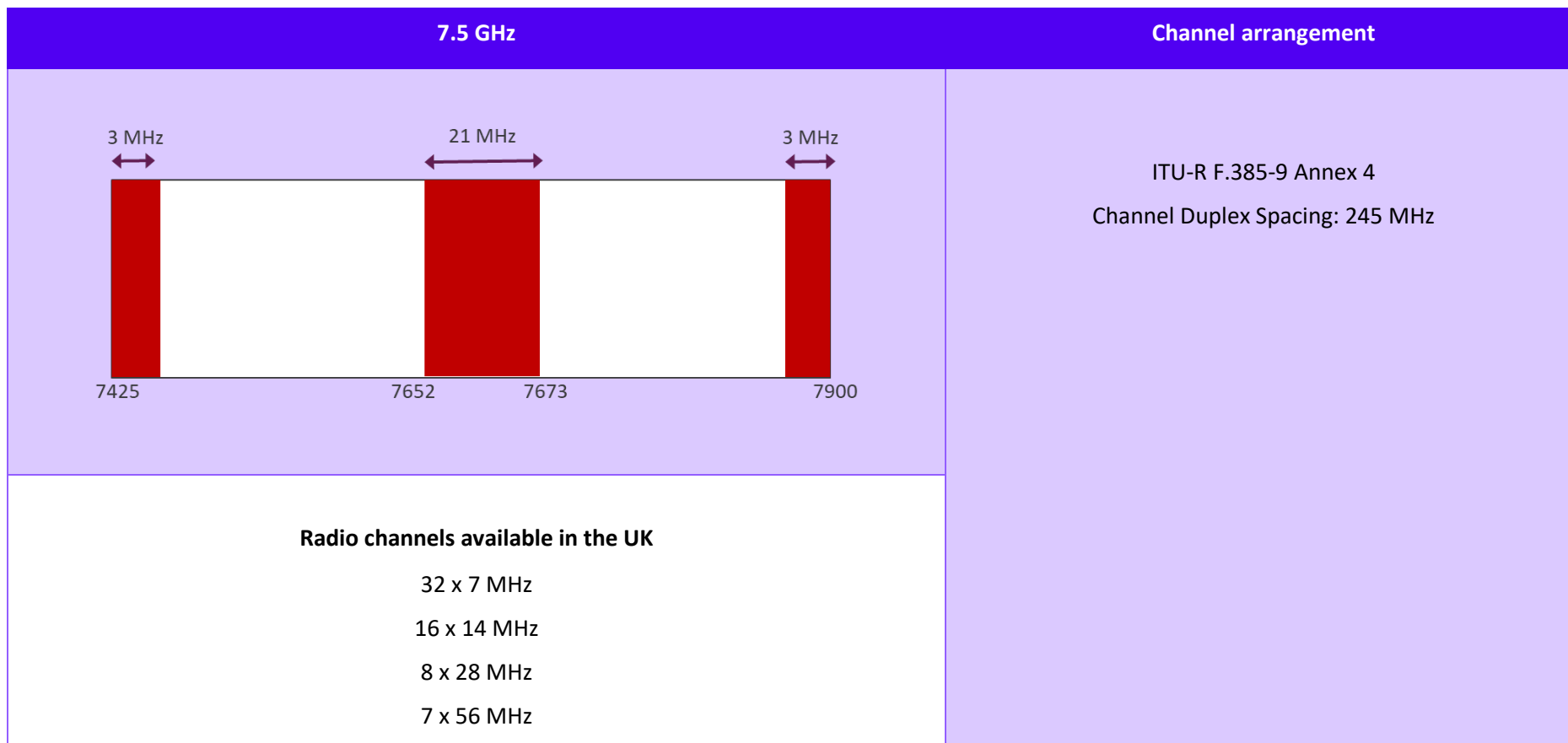
1.4 GHz	Channel arrangements
Please note that this band is no longer available for new fixed wireless links or technical variations as of 5 January 2019  6.5 MHz 124 MHz 0.5 MHz 1350 1374.5 1498.5 1517	CEPT Recommendation T/R 13-01 E Annex A Channel Duplex Spacing: 142 MHz
Radio channels available in the UK 720 x 0.025 MHz 240 x 0.075 MHz 72 x 0.25 MHz 36 x 0.5 MHz 18 x 1 MHz 9 x 2 MHz 1 x 3.5 MHz	

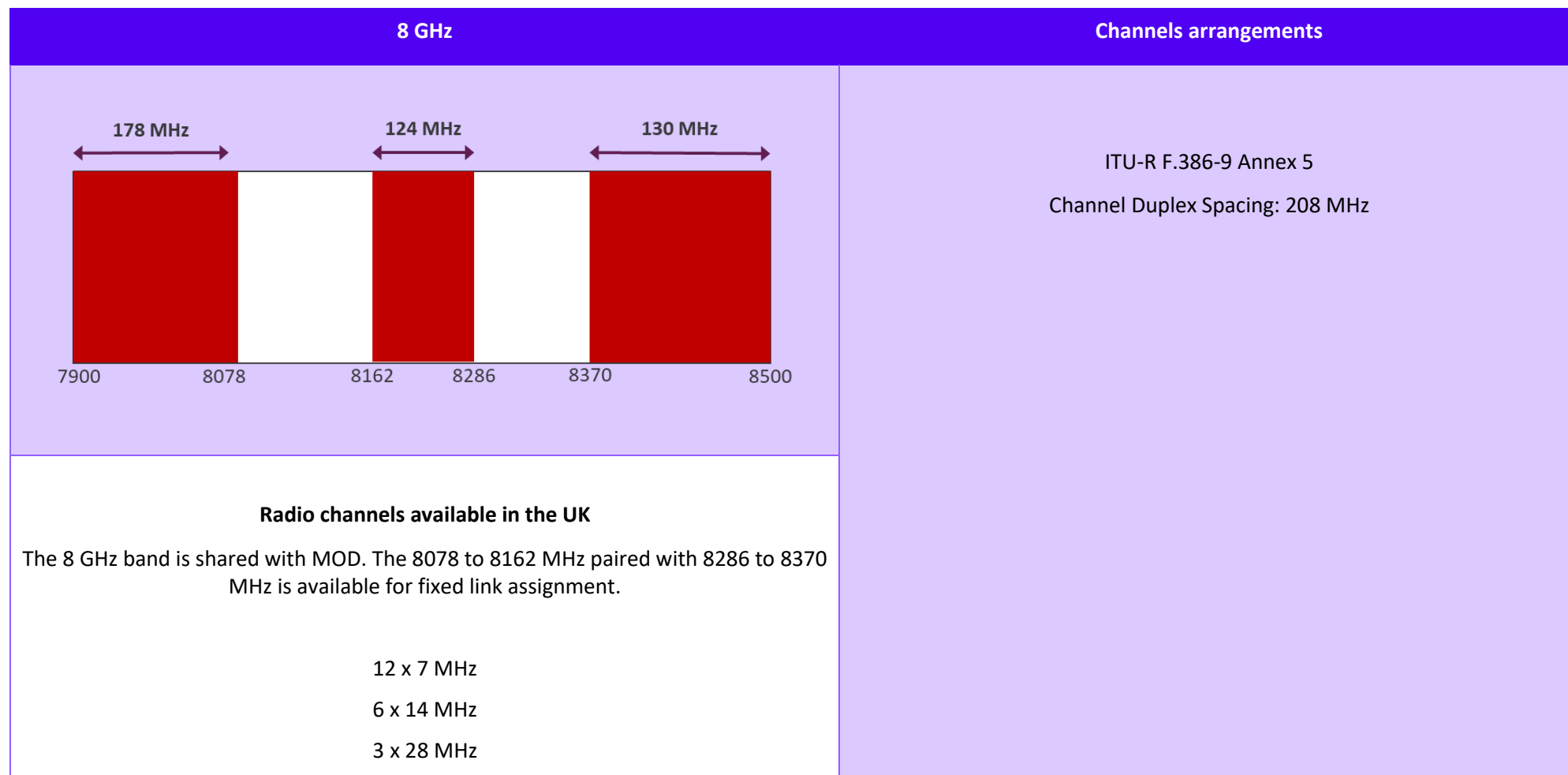
4 GHz	Channel arrangements
 *1 not available from Ofcom for point to point fixed links	CEPT/ERC/REC 12-08 E Annex A Part 2 Channel Duplex Spacing: 320 MHz
Radio channels available in the UK 4 x 15 MHz 2 x 30 MHz	

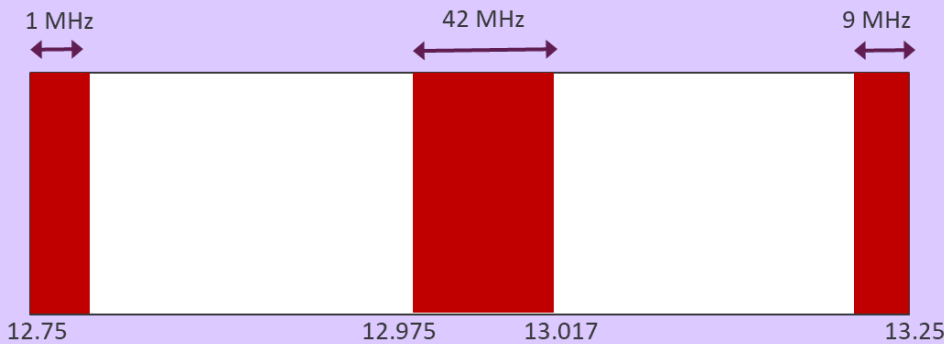


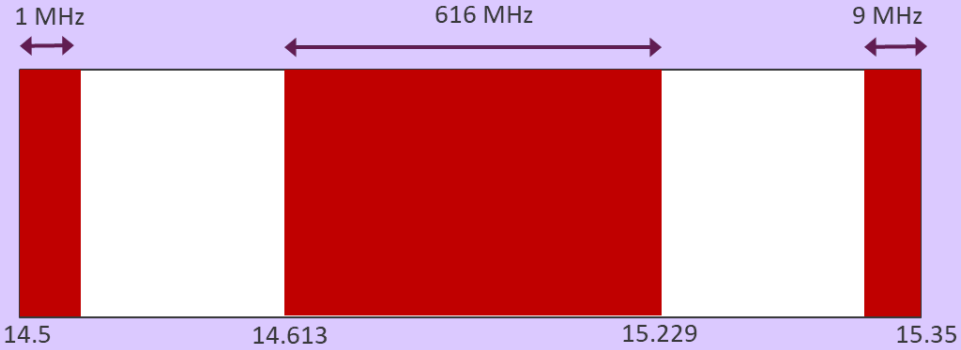


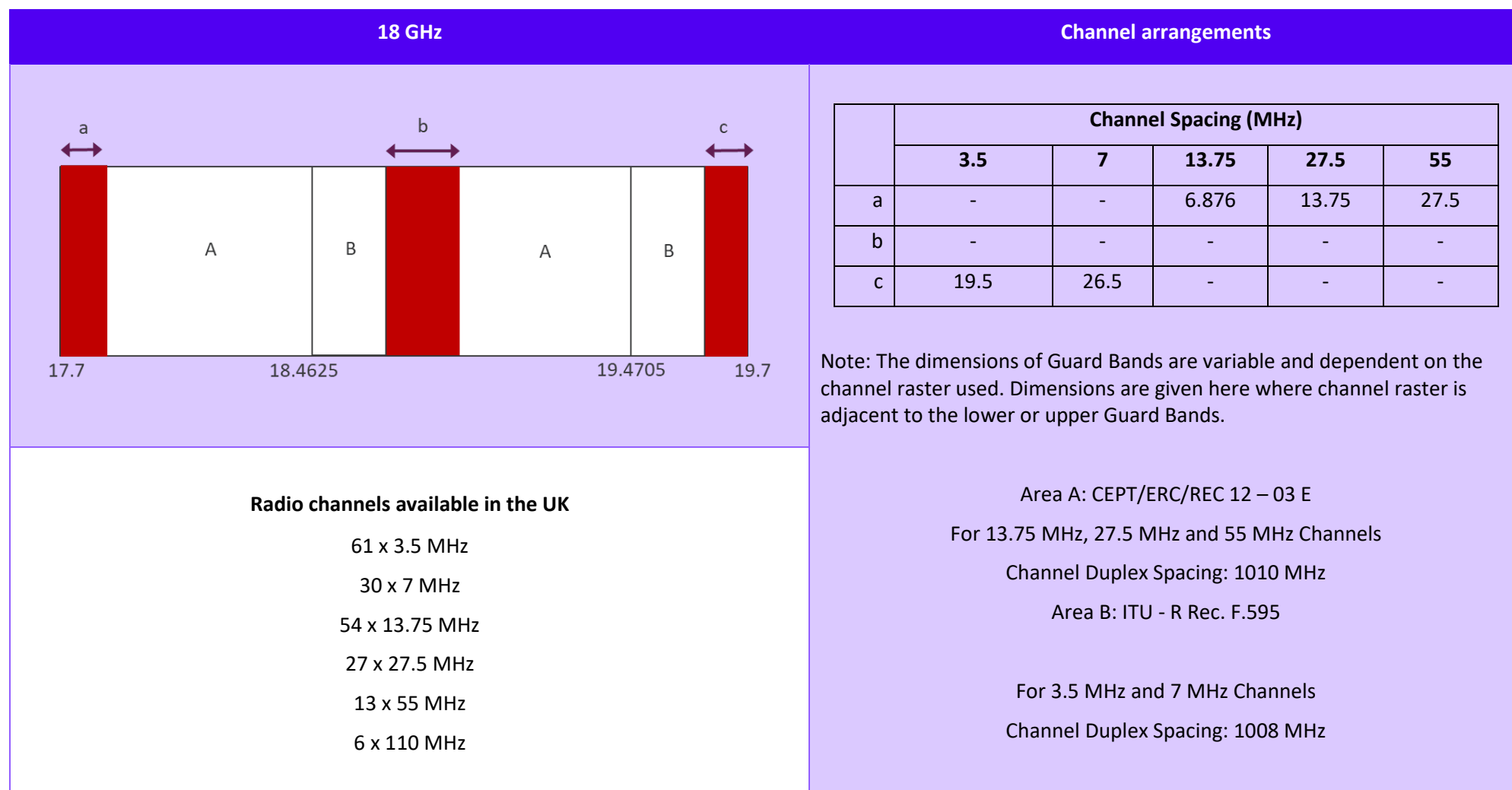


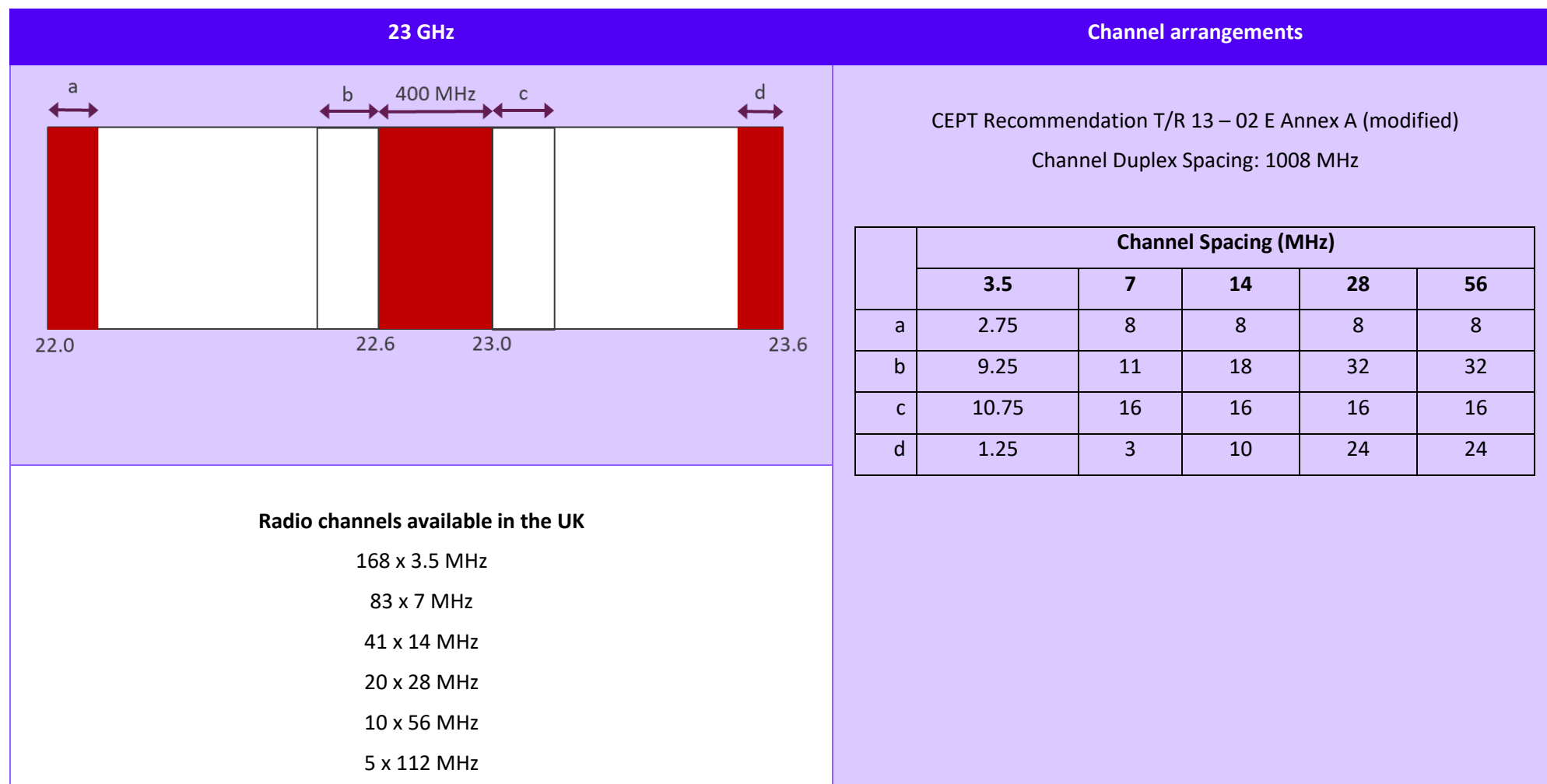


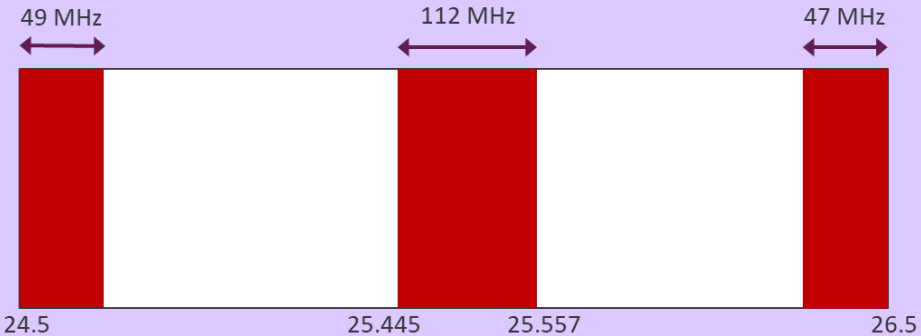


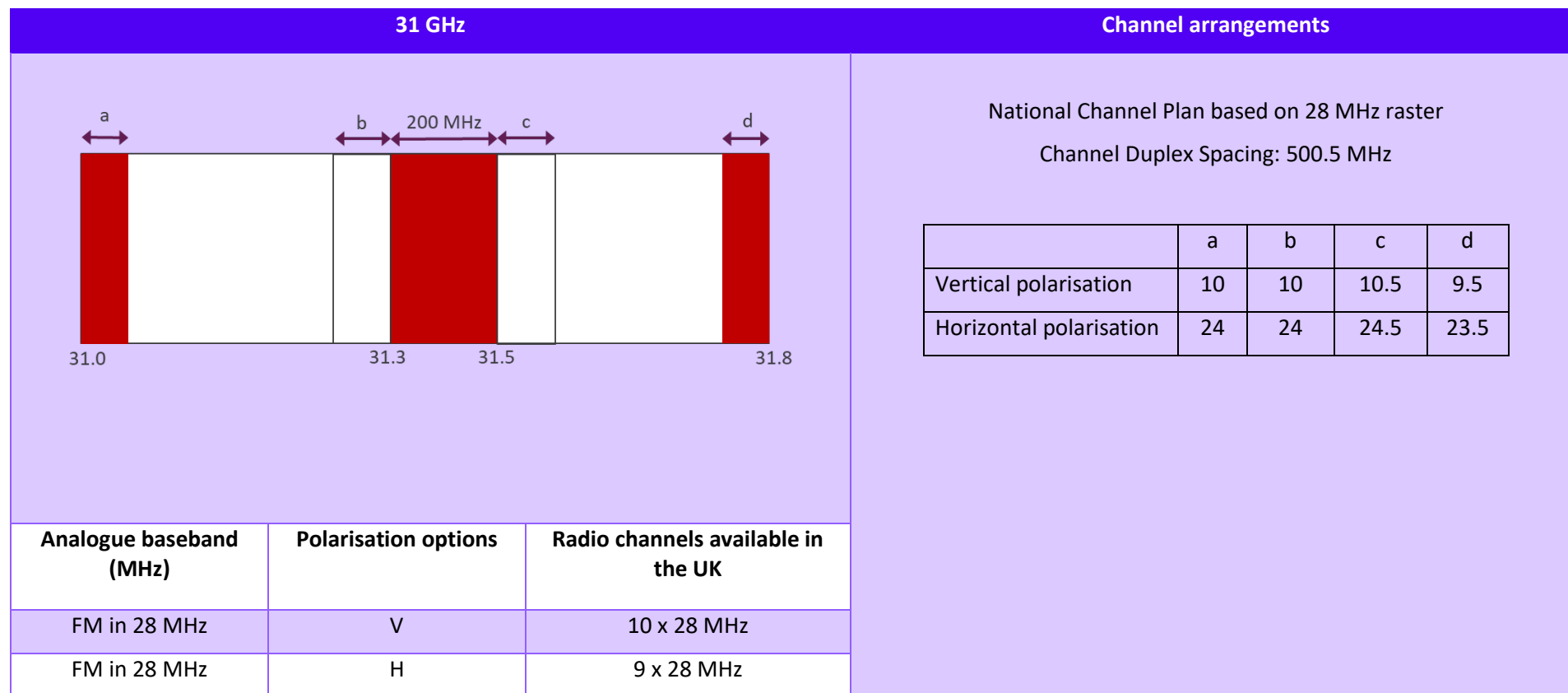
13 GHz	Channel arrangements
 1 MHz 42 MHz 9 MHz 12.75 12.975 13.017 13.25	CEPT/ERC/REC 12 – 02 E – Annex A Channel Duplex Spacing: 266 MHz
Radio channel available in the UK 128 x 1.75 MHz 64 x 3.5 MHz 32 x 7 MHz 16 x 14 MHz 8 x 28 MHz 7 x 56 MHz	

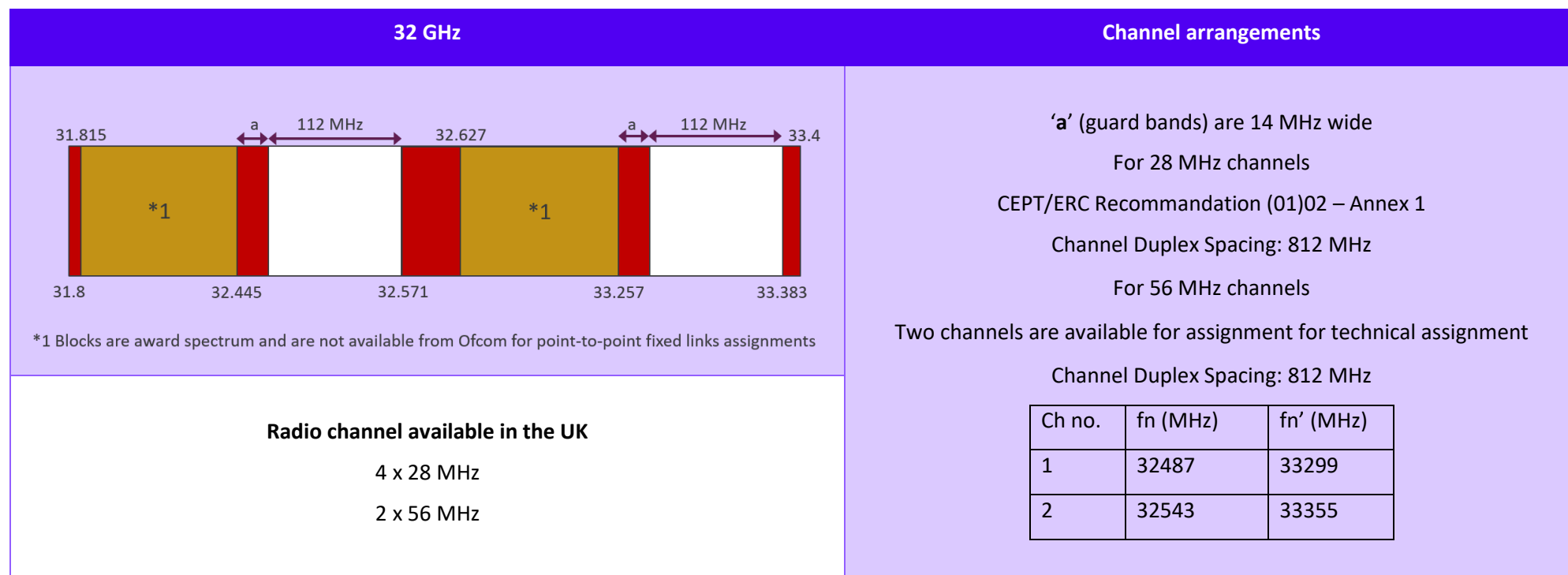
15 GHz	Channel arrangements
	CEPT/ERC/REC 12 – 07 E Channel Duplex Spacing: 728 MHz
Radio channels available in the UK 64 x 1.75 MHz 32 x 3.5 MHz 16 x 7 MHz 8 x 14 MHz 4 x 28 MHz 2 x 56 MHz	

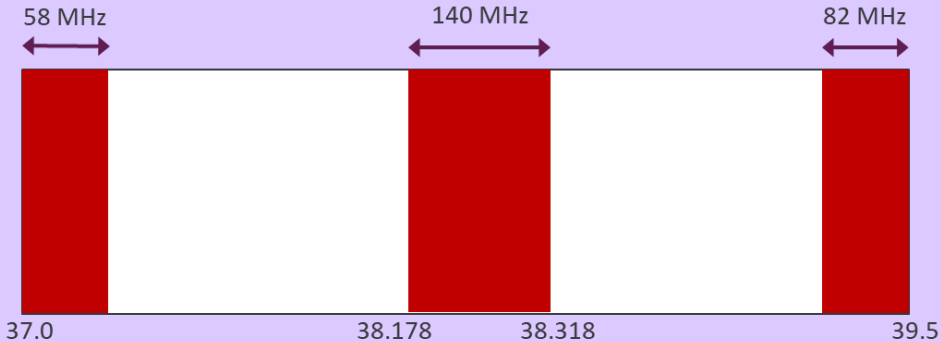


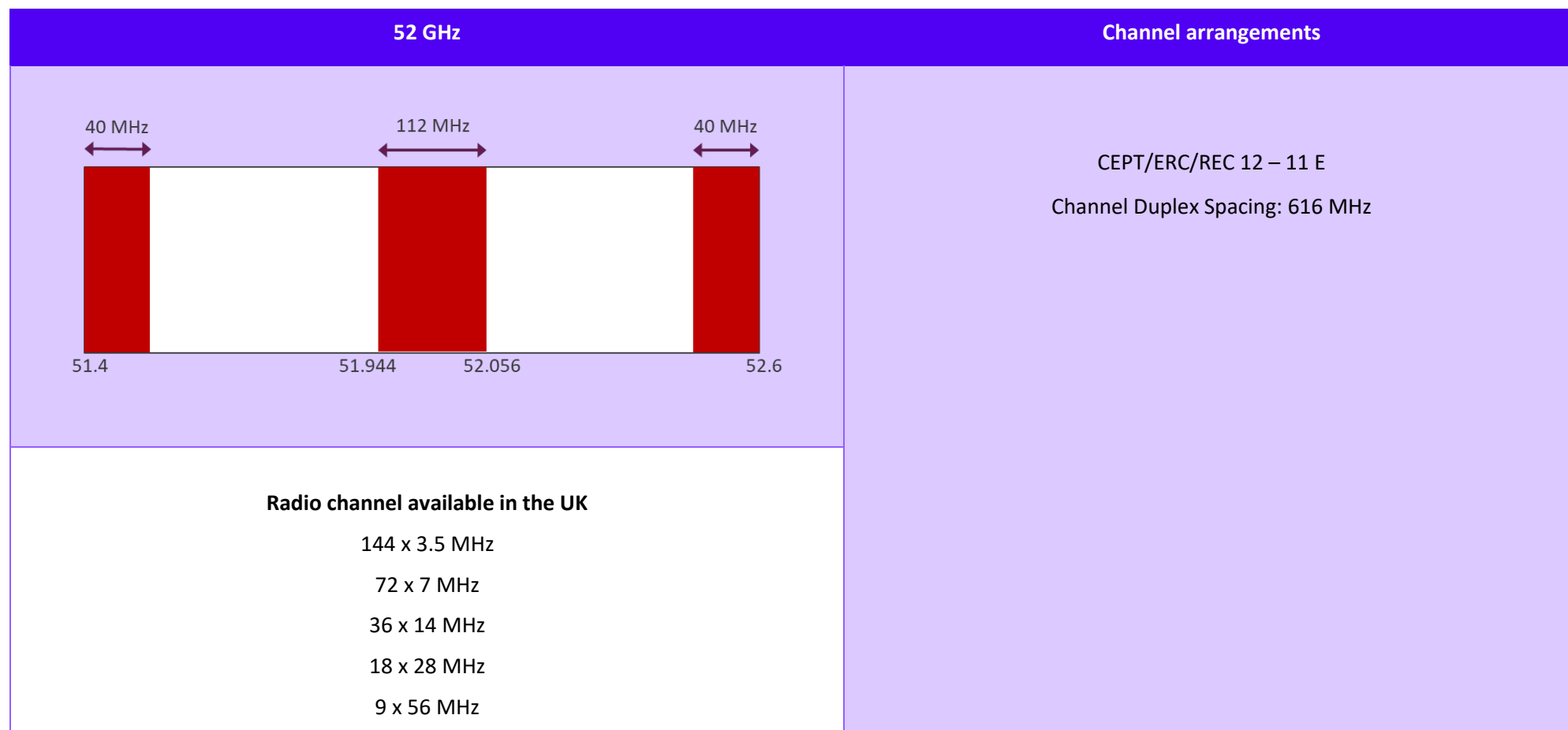


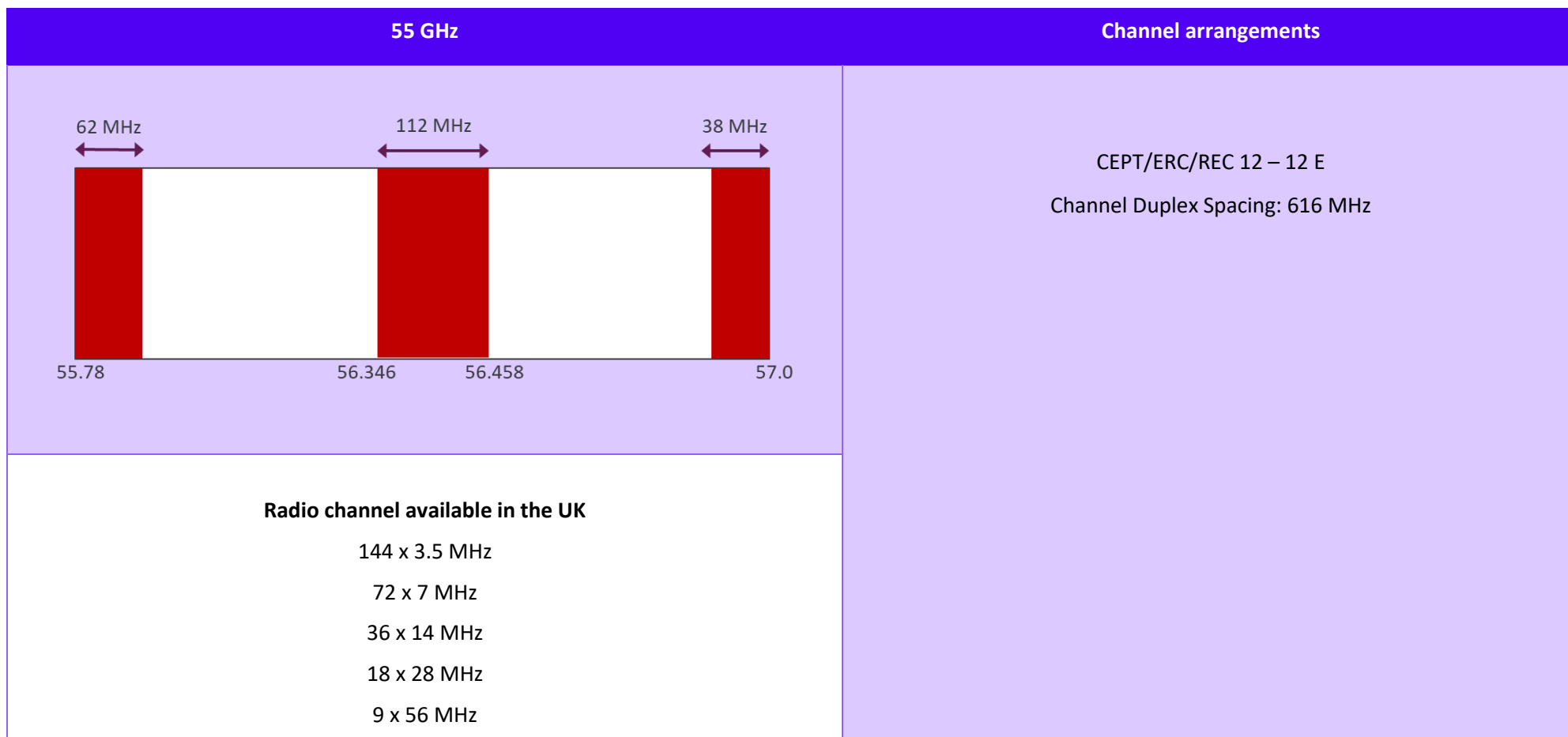
26 GHz	Channel arrangements
Please note that this band is no longer available for new fixed wireless links or technical variations as of 18 July 2022.  Radio channel available in the UK 256 x 3.5 MHz 128 x 7 MHz 64 x 14 MHz 32 x 28 MHz 16 x 56 MHz 8 x 112 MHz	CEPT Recommendation T/R 13 – 02 E Annex B Channel Duplex Spacing: 1008 MHz





38 GHz	Channel arrangements
 58 MHz 140 MHz 82 MHz 37.0 38.178 38.318 39.5	CEPT Recommendation T/R 12 – 01 E Channel Duplex Spacing: 1260 MHz
Radio channel available in the UK 320 x 3.5 MHz 160 x 7 MHz 80 x 14 MHz 40 x 28 MHz 20 x 56 MHz 10 x 112 MHz	





60 GHz	Channel arrangements
 The diagram illustrates the 60 GHz frequency allocation. It shows two red rectangular blocks representing channels. The first block is labeled '100 MHz' with a double-headed arrow above it, and its frequency range is indicated as 57.0 to 57.1 GHz below it. The second block is also labeled '100 MHz' with a double-headed arrow above it, and its frequency range is indicated as 70.875 to 71.0 GHz below it. A large white rectangular area between the two red blocks represents a 125 MHz gap, with '125 MHz' and a double-headed arrow labeled above it.	Channel arrangements are not specified for these bands in the UK.

70/80 GHz		Channel arrangements
The diagram illustrates the frequency band splits for the 70/80 GHz band. It shows two sub-bands: the lower sub-band (71-76 GHz) and the upper sub-band (81-86 GHz). Each sub-band is divided into three sections: a 125 MHz Ofcom Coordinated block, a 250 MHz Self coordinated block, and another 125 MHz Ofcom Coordinated block. The frequency values at the boundaries are: 71, 71.125, 73.125, 73.375, 75.875, 76 for the lower sub-band, and 81, 81.125, 83.125, 83.375, 85.875, 86 for the upper sub-band. CEPT ECC Recommendation (05)07 (Cross band duplex) * The 70/80GHz band has two separate authorisation approaches: i) Ofcom Coordinated & ii) Self Coordinated. The diagram above shows the frequency band splits and separation gap between the two approaches.		Channel Duplex Spacing for Self-Coordinated Block: N/A Channel Duplex Spacing for Ofcom Coordinated Block: 10 GHz
Self-Coordinated Blocks Channel arrangements are not specified for these bands in the UK for the self-coordinated block.	Ofcom-Coordinated Blocks 32 x 62.5 MHz 16 x 125 MHz 8 x 250 MHz 4 x 500 MHz 2 x 750 MHz 2 x 1000 MHz	

6. Abbreviations

Acronym	Meaning
CEPT	European Conference of Postal and Telecommunications Administrations
EIRP	Equivalent Isotropically Radiated Power
H	Horizontal Polarisation
ITU	International Telecommunication Union
N/A	Not Applicable
Ofcom	Office of Communications
RED	Radio Equipment Directive
V	Vertical Polarisation

7. Document history

Version	Published date	Comments
Version 1.0	27 August 2010	Document published
Version 1.1	1 November 2010	Edits to show new 60 GHz band open.
Version 2.0	23 December 2013	Edits to show: 1. The new authorisation in the 70/80 GHz band. 2. Adding wider channels in the L6 GHz, U6 GHz, 7.5 GHz, 23 GHz, 18 GHz, 23 GHz, 26 GHz and 38 GHz. 3. Adding the 56 MHz channels in the 15 GHz band.
Version 3.0	29 May 2015	Changes to reflect the reduced availability of channels for new assignments in the 1.4 GHz band
Version 4.0	27 July 2015	Adding 62.5 MHz and 125 MHz channel rasters to the 7080 GHz band Ofcom coordinated block.
Version 5.0	6 October 2016	Changes to reflect changes to the 4 GHz band.
Version 6.0	28 July 2017	Updating channels availability in the 4GHz band to reflect changes to the 4 GHz band.
Version 7.0	5 July 2018	Edits to remove reference to R&TTE Directive replaced by RED and note future changes to 1.4 GHz and 60/65 GHz.
Version 8.0	27 November 2018	Changes related to licence exemption of 57-71 GHz.
Version 9.0	2 September 2019	Updates (increases) the number of channels available for assignment in the Ofcom Co-ordinated part of the 70 / 80 GHz band. The update makes the full 2 x 2 GHz available for assignment as part of Ofcom's channel assignment policy.
Version 10	9 December 2019	Addition of channel arrangements for the 7900-8500 MHz band.
Version 11	5 February 2020	Addition of narrow channels (1.75 and 3.5 MHz) in the upper 6GHz band
Version 12	5 August 2022	Adding text to reflect the closure of 26G band for new fixed link applications and new technical variation applications from the 18 July 2022.
Version 13	29 May 2026	Added the 32 GHz band for new fixed link applications. Four 28 MHz channels and two 56 MHz channels available for technical assignment.

8. Contact details

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