

# AMENDMENT

ETS 300 197 A1

**April 1995** 

Source: ETSI TC-TM Reference: RE/TM-04024

ICS: 33.080

Key words: Transmission, radio, video

This amendment A1 modifies the European Telecommunication Standard ETS 300 197 (1994)

Transmission and Multiplexing (TM);

Parameters for radio relay systems for the transmission of digital signals and analogue video signals operating at 38 GHz

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New presentation - see History box

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## **Foreword**

This Amendment to ETS 300 197 (1994) has been produced by the Transmission and Multiplexing (TM) Technical Committee of the European Telecommunications Standards Institute (ETSI).

Transposition dates		
Date of latest announcement of this ETS (doa):	31 July 1995	
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 January1996	
Date of withdrawal of any conflicting National Standard (dow):	31 January 1996	

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#### **Amendments**

#### Page 8, subclause 4.1.2

Delete subclause 4.1.2 and replace it with the following:

## 4.1.2 Co-polar channel spacing for like carriers

For systems operating on the same antenna, see subclause 4.3, item a).

Table 1a shows the channel spacing arrangement for low-capacity systems utilising 2-state modulation schemes.

For low, medium and high capacity systems utilising more spectrally efficient modulation schemes, a common 3,5 MHz raster shall still be used. For this case, the channel spacing arrangements are shown in table 1b.

Table 1a: Digital systems with 2-state modulation

Minimum bit rate (Mbit/s)	2	8
Channel spacing (MHz)	7	14

Table 1b: Digital systems with four or more modulation states

Minimum bit rate (Mbit/s)	2	2 x 2	8	34	34	140/155
Channel spacing (MHz)	3,5	3,5	7	28	56	140

Table 2 shows the channel spacing arrangements for various video base-bands.

Table 2: Analogue systems

ĺ	Video baseband (MHz)	< 3,5	< 6	< 10	< 14
ſ	Channel spacing (MHz)	28	56	56	56

### Page 14, table 6

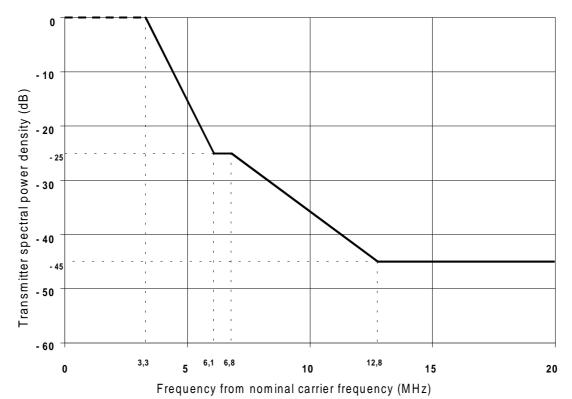
Replace table 6 by the following table:

Table 6: Spectrum analyser settings

Bit rate (Mbit/s)	2 x 2	2/8	8	34	34	140
Channel spacing (MHz)	3,5	7	14	28	56	140
IF Bandwidth (kHz)	30	30	30	100	100	300
Total sweep width (MHz)	20	20	50	100	200	500
Video bandwidth (kHz)	0,1	0,1	0,1	0,1	1	1
Recommended scan time (s)	20	20	50	20	20	20

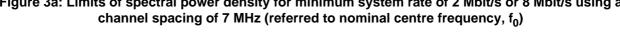
Page 14, figure 3

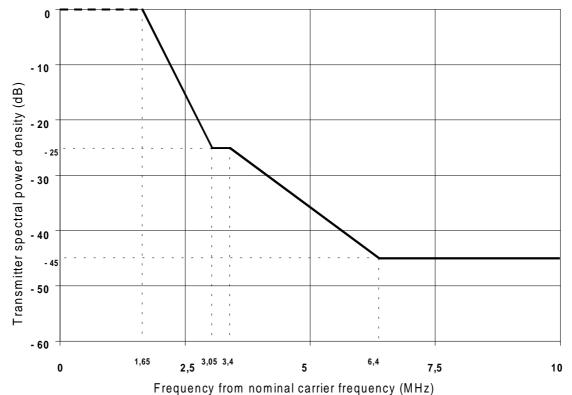
Replace figure 3 by the following figures 3a and 3b:



(Mask includes the allowance for both short and long term frequency tolerance)

Figure 3a: Limits of spectral power density for minimum system rate of 2 Mbit/s or 8 Mbit/s using a





(Mask includes the allowance for both short and long term frequency tolerance)

Figure 3b: Limits of spectral power density for minimum system rate of 2 x 2 Mbit/s using a channel spacing of 3,5 MHz (referred to nominal centre frequency, f<sub>0</sub>)

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Page 20, table 7

Replace table 7 by the following table:

Table 7: Adjacent channel interference levels

Bit rate (Mbit/s)	Separation of wanted and interfering signal (MHz)		Interference level (carrier/interference (dB))		
	co-polar	cross-polar	co-polar	cross polar	
2x2	3,5	n/a	0	n/a	
2	7	n/a	0	n/a	
8	7	n/a	0	n/a	
8	14	n/a	0	n/a	
34	28	n/a	0	n/a	
34	56	n/a	0	n/a	
140/155	140	n/a	0	n/a	

NOTE: Regulatory administrations may wish to vary the value of C/I for co-polar, adjacent channel

interference. Values are typically in the range of 0 to - 3 dB.

n/a: not applicable.

Page 19, figure 8

Replace figure 8 by the following figure:

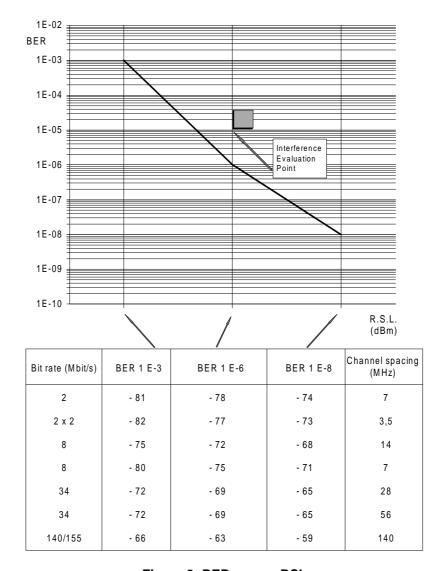


Figure 8: BER versus RSL

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# History

Document history			
April 1994	First Edition of ETS 300 197		
April 1995	Amendment 1 to First Edition of ETS 300 197		
January 1996	Converted into Adobe Acrobat Portable Document Format (PDF)		
Note	The references to the changed pages in the standard refer to an old presentation. See history box at the end of the standard itself.  The new presentation format, applied from 1 December 1995, might have different page numbering. The clause numbering has not changed.		

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