



Office of the Director of
**Telecommunications
Regulation**

Important Note:

This document is now obsolete and is for information purposes only. For updated information, please refer to ODTR documents 00/61 and 00/62R.

TTE 9

**TYPE APPROVAL REQUIREMENTS FOR
ANALOGUE CORDLESS TELEPHONES FOR
CONNECTION TO SWITCHED PUBLIC
TELECOMMUNICATIONS NETWORKS
IN IRELAND**

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1. INTRODUCTION

The Office of the Director of Telecommunications Regulation (O.D.T.R.) is the national regulatory body for type approval of telecommunications terminal equipment in Ireland

Type approval specification - TTE 9 - details the type approval requirements for analogue cordless telephones, operating in the 31.0375 - 31.3125 MHz and 39.9375 - 40.2125 MHz frequency bands, for connection to the PSTN in Ireland.

Issue No. 2 of TTE 9 replaces issue No.1 which was issued by the Department of Transport, Energy and Communication in April 1996. The following are the most significant changes from issue 1:

- (i) Section 2.2(i) has been amended by reducing the minimum number of channels that cordless telephones must be capable of operating on from 12 to 8.
- (ii) Section 3.1 has been amended to take account of the revised requirements for access to the PSTN (i.e. the introduction of type approval specification, TTE 10¹ and the withdrawal on 1st October 1998 of type approval specification, TTE 1). Alternatively, applicants may also use a TBR 21² test report.
- (iii) Section 3.2 has been broadened. In addition to approval under CT04-1, approval is also allowed for cordless phones, which meet *both* MPT 1384 and the Call Handling requirements of BABT/SITS/85/20.

S.I. No. 410 of 1997³ exempts this type of analogue cordless telephone from the requirement to be licensed under the Wireless Telegraphy Act, 1926.

This specification was notified to the EU Commission under Directive 83/189/EEC.

For the avoidance of doubt, the approval status of analogue cordless telephones, type approved in accordance with TTE 9, issue 1, is not affected.

¹ TTE 10 is available on the ODTR Website at <http://www.odtr.ie> as document 98/29. A hardcopy is available free of charge from the ODTR.

² TBR 21 is available from the National Standards Authority of Ireland (NSAI) and ETSI.

³ Wireless Telegraphy Act, 1926 (Section 3, as amended) (Exemption of Cordless Telephones) Order, 1997

2. GENERAL REQUIREMENTS

2.1 Definitions

A cordless telephone means a telephone consisting, inter alia, of two different parts:

- (i) Cordless Fixed Part (CFP). This is the fixed part, which is connected to a public switched telecommunications network.
- (ii) Cordless Portable Part (CPP). This is the portable part, which is connected to the CFP by means of a radio link.

2.2 General Requirements

Cordless telephones shall:

- (i) Operate on at least eight full duplex channels by the radio transmission of analogue signals, using either frequency or phase modulation, between the CFP and the CPP.
- (ii) Use the channel plan in the following table, whereby equipment working any channel listed in column 1 shall transmit on the frequency indicated opposite in column 2 in the case of the CFP and on the frequency indicated opposite in column 3 in the case of the CPP.

Channel Number	CFP (MHz)	CPP (MHz)
1	31.0375	39.9375
2	31.0625	39.9625
3	31.0875	39.9875
4	31.1125	40.0125
5	31.1375	40.0375
6	31.1625	40.0625
7	31.1875	40.0875
8	31.2125	40.1125
9	31.2375	40.1375
10	31.2625	40.1625
11	31.2875	40.1875
12	31.3125	40.2125

- (iii) Operate with a maximum permissible output power from the CFP and the CPP not exceeding 10 mW.

2.3 Security Codes

Before establishing a voice connection, an identification procedure shall be followed between the CFP and the CPP. This involves exchanging and comparing a code, stored in each part. The CPP and CFP will only communicate with each other if they share a common code. All other codes are rejected.

The user cannot change the code.

The security code shall be taken from a group of security codes numbering at least 60,000.

3. TYPE APPROVAL REQUIREMENTS

3.1 Telecommunications

Cordless telephones shall meet the requirements of:

TTE 10 “Attachment Requirements for Terminal Equipment Intended for 2-Wire Connection to the Irish PSTN”

OR

TBR 21 “Attachment requirements for pan-European approval for connection to the analogue Public Switched Telephone Networks (PSTNs) of Terminal Equipment (excluding terminal equipment supporting the voice telephony service) in which network addressing, if provided, is by means of Dual Tone Multi Frequency (DTMF) signalling”

3.2 Radio

Cordless telephones shall meet the requirements of 3.2.1 or 3.2.2:

3.2.1 CT04-1⁴ "Radio Aspects of Cordless Telephones operating in the 30 - 40 MHz Frequency Band"

3.2.2 The Call Handling Requirements in

BABT /SITS/85/20⁵ "Special Investigation Test Schedule for CORDLESS TELEPHONE TERMINAL EQUIPMENT OPERATING IN THE 47 MHz BAND FOR CONNECTION TO ANALOGUE INTERFACES OF PUBLIC SWITCHED TELEPHONE NETWORKS RUN BY CERTAIN PUBLIC TELECOMMUNICATIONS OPERATORS" Issue 5

In conjunction with⁶

MPT 1384⁷ "PERFORMANCE SPECIFICATION: Analogue cordless telephones operating in the 31 and 39 MHz frequency Bands"

3.3 Safety and Electromagnetic Compatibility

Cordless telephones shall comply with the requirements of the Low Voltage Directive (73/23/EEC) and the Electromagnetic Compatibility Directive (89/336/EEC).

⁴ CT04-1 is available from the Technical Developments Division, Radiocommunications Agency (RDR), PO Box 450, 9700 AL Groningen, The Netherlands

⁵ British Approvals Board for Telecommunications, BABT/SITS/85/20 details the requirements for cordless phones intended for connection to the PSTN in the UK.

⁶ Note 2 of BABT Application Note 19 – Cordless Telephones ("First Generation" or "CT1" Equipment) for connection to Analogue Interfaces of Public Switched Telephone Networks, Issue 10, - Approval to MPT 1384 is acceptable for the radio performance requirement of BABT/SITS/85/20

⁷ MPT 1384 is available from The Radiocommunications Agency, Information and library Service, New Kings Beam House, 22 Upper Ground, London, SE1 9SA.

3.4 User Instruction Requirements

A users instructions manual shall be supplied with each cordless telephone placed on the market in Ireland and shall include, at a minimum, the following statements or statements to the like effect:

1. A nearby user of a cordless telephone operating on the same radio channel may overhear cordless telephone conversations.
2. This cordless telephone will not operate and will not complete telephone calls to the emergency services via '999' and '112' when there is a mains supply failure or the battery in the portable handset is uncharged.
3. This cordless telephone shall not be modified without the prior approval of the O.D.T.R. In particular, the addition of any external amplifier or external antenna to this equipment is strictly forbidden.
4. The use of this cordless telephone is permitted by the O.D.T.R. on a non-protected, non-interference basis.

4. APPROVAL PROCEDURE

Applications for type approval of analogue cordless telephones for connection to the PSTN within the State should be made in writing to the O.D.T.R. and should include the following items;

- (i) A description of the cordless telephone together with the model number and the name of the manufacturer.
- (ii) The identity of the authorised representative or agent of the manufacturer established in the EU, where appropriate.
- (iii) A completed test report in respect of TTE 10 or TBR 21.
- (iv) A valid certificate of conformity and test report to either
 - CT04-1Or
 - MPT 1384 and the call handling requirements of BABT/SITS/85/20.
- (v) Evidence of compliance with the relevant provisions of the Low Voltage Directive and the Electromagnetic Compatibility Directive.
- (vi) A copy of the users manual referred to in section 3.4.