

Australian/New Zealand Standard™

**Radiocommunications requirements for  
cordless telephones operating in the  
1.7 MHz and between 30 and 41 MHz  
frequency bands**



## **AS/NZS 4281:2007**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee RC-006, Radiocommunications Equipment—General. It was approved on behalf of the Council of Standards Australia on 8 August 2006 and on behalf of the Council of Standards New Zealand on 18 August 2006. This Standard was published on 17 January 2007.

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The following are represented on Committee RC-006:

Australian Communications and Media Authority  
Australian Electrical and Electronic Manufacturing Association  
Australian Information Industry Association  
Australian Marine Industries Federation  
Civil Aviation Safety Authority  
Electromagnetic Compatibility Society of Australia  
Electromagnetic Technical Evaluation Committee  
Ministry of Economic Development, NZ  
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cordless telephones operating in the  
1.7 MHz and between 30 and 41 MHz  
frequency bands**

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## PREFACE

This Standard was prepared by Joint Standards Australia/Standards New Zealand Committee RC-006 on Radiocommunications Equipment—General to supersede AS/NZS 4281:1995.

This Standard has been revised in accordance with Standards Australia policy and no substantial changes have been made from the 1995 edition.

The 1995 edition was developed from documents ECR 302, *Equipment compliance requirements for cordless telephones* from the Department of Transport and Communications (Australia) and RFS 29, *Restricted radiation radio apparatus (exemptions from licensing)* from the Ministry of Commerce (NZ). It was one of a number of Standards dealing with Radiocommunications Equipment, produced under the terms of a memorandum of understanding between Standards Australia and the Australian Spectrum Management Agency (now the Australian Communications and Media Authority (ACMA)).

This Standard has been revised in accordance with Standards Australia policy and no substantial changes have been made from the 1995 edition.

The intent of this Standard is to specify the minimum standards and essential requirements for the operation of the radiocommunication aspects of this equipment. This Standard does not address the requirements necessary for connecting this equipment to the Public Switched Telephone Network (PSTN), the equipment requirements it must meet for doing so or user safety requirements.

When equipment is to be connected to the PSTN, this Standard should be read in conjunction with the requirements of the national telecommunications authority, as some criteria may be commonly required.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard****Radiocommunications requirements for cordless telephones operating in the 1.7 MHz and between 30 and 41 MHz frequency bands****1 SCOPE**

This Standard specifies the essential requirements and minimum standards for operation of the radiocommunications aspects of all radiocommunication transmitters and receivers used in cordless telephones operating in the 1.7/40 MHz, 30/39 MHz and 34/40 MHz frequency bands. It contains conditions and methods of test applicable to establish those requirements as well as some general requirements including equipment marking.

Cordless telephones consist of a base unit, which may be connected to the Public Switched Telephone Network (PSTN), and a portable unit (handset). Each unit contains a transmitter and receiver which are used for short-range communication between the base unit and portable unit.

This Standard does not address the requirements for the connection of this equipment to the PSTN or user safety requirements.

This Standard does not apply to—

- (a) telephones designed or intended to operate in a cellular mobile telephone service; or
- (b) cordless telephones designed or intended to operate on other frequencies not specified in this Standard.

**2 REFERENCED DOCUMENTS**

The following document is referred to in this Standard:

AS/NZS

CISPR 22 Information technology equipment—Radio disturbance characteristics—Limits and methods of measurement

**3 DEFINITIONS**

For the purpose of this Standard, the definitions below apply.

**3.1 Artificial main network**

A network inserted in the supply mains lead of apparatus to be tested, which provides, in a given frequency range, a specified load impedance for the measurement of disturbance voltages and which may isolate the apparatus from the supply mains in that frequency range.

**3.2 Base station**

A base radiocommunications transmitter and receiver station of a cordless telephone.

**3.3 Cellular mobile telephone service**

A radiocommunications service consisting of—

- (a) one or more handsets; and
- (b) two or more base stations forming part of a public mobile telephone service where the area served by each base station (in this definition called a ‘cell’) is restricted; and