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# Australian Standard 3145—1979

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## APPROVAL AND TEST SPECIFICATION FOR RADIO INTERFERENCE SUPPRESSION DEVICES



PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA  
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**THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations or departments were officially represented on the committee entrusted with the preparation of this specification.**

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**Australian Electrical and Electronic Manufacturers Association**

**Confederation of Australian Industry**

**Electrical Apparatus Approvals Authorities**

**Electrical Contractors Associations of Australia**

**Electrical Testing Laboratories**

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## PREFACE

This revised specification, prepared by Committee EL/2, Electrical Approvals Standards, was approved on behalf of the Council of the Standards Association of Australia on 25 July 1979, and was published on 1 November 1979.

It is one of a series of approval and test specifications issued by the Association under Part 2 of the SAA Wiring Rules. These specifications are accompanied by a general specification AS C100, containing definitions and general requirements for electrical materials and equipment. The purpose of these specifications is to outline conditions which must be met to secure approval for the sale and use of electrical equipment in Australia. Only safety matters and related conditions are covered.

The purpose of the revision is to express the requirements in metric units having regard to Australian Government legislation under the Metric Conversion Act, 1970, which has the objective of the progressive adoption of such units. The '3000' series of numbers has been allocated for new and revised SAA approval and test specifications expressed in metric units, the letter classification 'C' being dropped; thus this specification which was numbered AS C145 in the imperial unit series becomes AS 3145 in the metric series.

It should be noted that the metric values herein are a 'soft' conversion, i.e. a direct conversion from imperial to metric units, rounded off as was considered appropriate. No attempt has been made to revise established criteria; however, various items have been updated in line with current drafting practice.

This specification supersedes AS C145—1960 from date of publication.

The Association desires to call attention to the fact that this specification does not purport to include all the necessary provisions of a contract.

This specification requires reference to the following Australian standard approval and test specification:

AS C100 Definitions and General Requirements for Electrical Materials and Equipment

and to the following:

AS 2066 Marking Codes for Resistors and Capacitors

AS 3000 SAA Wiring Rules  
Part 1—Wiring Methods

IEC 161 Capacitors for Radio Interference Suppression

In addition, reference to other approval and test specifications may be required for approval of particular components incorporated in radio interference suppression devices (see Clause 2.3).



## CONTENTS

		<i>Page</i>
<b>SPECIFICATION</b>		
1	Scope .....	5
2	Compliance with Specifications .....	5
3	Types of Device .....	5
4	Maximum Current to Earth .....	6
5	Classification and Use of Capacitors .....	6
6	Devices in Polyphase Apparatus .....	7
7	Self-contained Devices for Connection to Circuit Wiring .....	7
8	Devices within Equipment .....	8
9	Identification of Terminals or Leads of Devices .....	8
10	Flexible Cord and Connecting Plug .....	8
11	Sealing .....	9
12	Clearances .....	9
13	Capacitors .....	9
14	Inductors .....	10
15	Resistors.....	10
16	Marking of Devices and Components Incorporated in Sealed or Encapsulated Equipment .....	10
17	Testing of Self-contained Devices for Connection to Circuit Wiring .....	11
18	Testing of Capacitors .....	11
19	Testing of Inductors .....	14
20	Testing of Resistors.....	14
<b>APPENDICES</b>		
A	Recognized Arrangements of Radio Interference Suppression Devices .....	16
B	Resistor Colour Code .....	17

# STANDARDS ASSOCIATION OF AUSTRALIA

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## Australian Standard APPROVAL AND TEST SPECIFICATION FOR RADIO INTERFERENCE SUPPRESSION DEVICES

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This specification shall be read in conjunction with AS C100, Approval and Test Specification for Definitions and General Requirements for Electrical Materials and Equipment. (See also Clause 2 below.)

**1 SCOPE.** This specification prescribes safety requirements for interference suppression devices incorporated in electrical circuits or equipment operating at low or medium voltage, and intended for the suppression of radio, including television, interference.

The specification deals both with devices supplied as self-contained units and with components incorporated individually in equipment.

NOTE: A radio interference suppression device may hereinafter be referred to as a 'device'.

### 2 COMPLIANCE WITH SPECIFICATIONS.

**2.1 General Requirements of AS C100.** This specification shall be read in conjunction with AS C100 and the appropriate provisions of AS C100 shall apply to the design and construction of the devices covered by this specification.

**2.2 Specific Requirements of this Specification.** A radio interference suppression device shall be deemed to comply with this specification only if it complies with all the appropriate requirements of this specification and passes the relevant tests specified herein.

**2.3 Requirements of Other Specifications.** Components incorporated in radio interference suppression devices which are depended upon for safety shall comply with the appropriate requirements of any relevant approval and test specification unless such requirements are varied herein.

### 3 TYPES OF DEVICE.

**3.1 Recognized Types.** Radio interference suppression devices shall be classified under two types as follows:

- (a) *Type A*—suitable for permanent connection to circuit wiring or for inclusion in appliances which are not provided with facilities for the connection of flexible cord and which are to be solidly earthed, i.e. fixed appliances having exposed metal parts as defined in Clause 2.19 of AS C100 and hence required under Section 5 of AS 3000, Part 1, to be earthed.