

Australian Standard[®]

**Metal drums for insulated electric
cables and bare conductors**

This Australian Standard was prepared by Committee EL/3, Electric Wires and Cables. It was approved on behalf of the Council of Standards Australia on 28 August 1991 and published on 15 November 1991.

The following interests are represented on Committee EL/3:

- Australian Electrical and Electronic Manufacturers Association
- Department of Defence
- Department of Minerals and Energy, N.S.W.
- Electrical Contractors Associations of Australia
- Electrical regulatory authorities
- Electrical Supply Association of Australia
- Railways of Australia Committee
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RECONFIRMATION

OF

AS 3983—1991

Metal drums for insulated electric cables and bare conductors

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NOTES

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**Metal drums for insulated electric
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PREFACE

This Standard was prepared by the Standards Australia Committee on Electric Wires and Cables in cooperation with the Standards Australia Committee on Overhead Power Line Materials. It supersedes AS C365, *Drums for bare stranded conductors*, Part 2—1970, *Metal drums*.

This new Standard covers not only drums for bare conductors but also drums for insulated electric cables and any other product for which the drums are suitable, e.g. optical fibre cable, stay wires. This Standard is a revision of AS C365—1970 to reflect a new approach to the standardization of metal drums.

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STANDARDS AUSTRALIA

Australian Standard

Metal drums for insulated electric cables and bare conductors

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for metal drums for the transport and storage of insulated electric cables, bare conductors or other products for which the drums are suitable.

Drums manufactured to this Standard shall be suitable for repeated use. The Standard does not cover collapsible drums or drums designed for stacking, except that drums with I-section flanges and not exceeding the standard drum capacity mass stated in Table 1 shall be capable of being stacked two high during storage.

The Standard includes nomenclature and dimensions of a preferred range of drums, together with details of materials, construction and marking requirements, and special requirements for the protection of cables.

NOTES:

- 1 For the purpose of this Standard, the term 'cable' applies to any product which may be wound on the specified drums.
- 2 Dependent upon cable type, transportation, single use and installation conditions, drums of lighter or more robust construction or differing design may be required. Such drums are not included in the scope of this Standard.
- 3 Timber drums for cables are covered by AS 2857.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

- | | |
|--------|--|
| 1554 | SAA Structural Steel Welding Code |
| 1544.1 | Part 1: Welding of steel structures |
| 1594 | Hot-rolled steel flat products |
| 1595 | Cold-rolled unalloyed low carbon steel sheet and strip |
| 1650 | Hot-dipped galvanized coatings on ferrous articles |
| 2857 | Timber drums for insulated electric cables and bare conductors |
| 3678 | Hot-rolled structural steel plates, floorplates and slabs |
| 3679 | Hot-rolled structural steel bars and sections |

1.3 DESIGNATION Drums shall be designated by a reference number which shall be made up as follows, with a solidus (/) between Items (b) and (c) and between Items (c) and (d):

- (a) Prefix letter M.
- (b) Flange diameter, in millimetres.
- (c) Barrel diameter, in millimetres.
- (d) Internal width, in millimetres.

Example

M 1200/600/800

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

1.4.1 Cable—any product which may be wound on the drums specified in this Standard.

1.4.2 Cable inner-end access—ramped opening through the drum barrel, adjacent to one flange, to facilitate the securing of that end of the cable first laid on the barrel.

1.4.3 Protective external lagging—component which is additional to the basic drum construction, for the purpose of providing protection against mechanical damage to the outer layers of the cable on the drum.

1.5 TERMINOLOGY The terminology and typical construction of drums is illustrated in Figure 1.