

AS 3702—1989

Australian Standard[®]

**Item designation in
electrotechnology**

This Australian Standard was prepared by Committee TE/13, Symbols, Units & Quantities for Electrotechnology. It was approved on behalf of the Council of Standards Australia on 22 March 1988 and published on 19 June 1989.

The following interests are represented on Committee TE/13:

Association of Consulting Engineers, Australia
Australian Electrical and Electronic Manufacturers Association
Civil Aviation Authority
Confederation of Australian Industry
Department of Administrative Services—Construction Group
Department of Defence
Department of Technical and Further Education, N.S.W., Vic. and S.A.
Electricity Supply Association of Australia
Institute of Draftsmen, Australia
Institution of Radio and Electronics Engineers, Australia
Melbourne & Metropolitan Board of Works
Queensland Chamber of Mines
Railways of Australia Committee
Royal Melbourne Institute of Technology
Telecom Australia
The technical press

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 87195.

AS 3702—1989

Australian Standard®

**Item designation in
electrotechnology**

First published as AS 1103.2—1975.
Second edition 1982.
Revised and redesignated AS 3702—1989.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 5667 6

PREFACE

This Standard was prepared by Standards Australia's Committee on Symbols, Units and Quantities for Electrotechnology under the authority of both the Telecommunications and Electronics, and the Electrical Standards Boards, to supersede AS 1103.2—1982, *Diagrams charts and tables for electrotechnology, Part 2: Item designation*.

This Standard is a comprehensive revision of the former Standard (AS 1103.2—1982), which was one part of the AS 1103 series of Standards on diagrams, charts and tables for electrotechnology.

Since the revised system of item designation specified in this Standard is not only used to correlate information in different documents (such as diagrams, parts lists, circuit descriptions and instructions) but may also be displayed on or near the item itself in the equipment, this Standard has been removed from the AS 1103 series and is now a 'stand-alone' Standard.

It should be noted that this Standard is technically equivalent to IEC 750 (1983), *Item designation in electrotechnology*. It follows the same principles including the removal of the publication from IEC 113 series (on which the AS 1103 series is based) to a new IEC number (i.e. IEC 750). However, a major deviation from IEC 750 is the provision of a comprehensive alphabetical list of items and their letter codes given in Table 2, which has been included as a quick-reference guide.

This Standard is based on the concept that design and engineering as well as operation and maintenance of an electrotechnical system requires a clear and simple method for designating each item. To this end, considerable effort has been made to make the Standard easy to comprehend and apply. Examples are given to demonstrate rules and different ways of applying the system.

The purpose of this Standard is to provide guidance for the formulation and application of discrete item designation for parts used in electrotechnology. The designation correlates the item in different diagrams, parts lists, circuit descriptions, instructions and in the equipment, and part of it may also be shown on or near the item in the equipment.

Attention is drawn to the fact that the AS 1103 series of Standards is complementary to the AS 1100 series (*Drawing practice*) and the AS 1102 series (*Graphical symbols for electrotechnical documentation*). For relevant information on matters specific to drawing practice but which are not covered in the AS 1103 series, reference should be made to the AS 1100 series. In addition, reference may also be required to AS 1046.1 and AS 1046.2, *Letter symbols for use in electrotechnology, Part 1: General*, and *Part 2: Telecommunications and electronics*.

© Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

CONTENTS

	<i>Page</i>
1 SCOPE	4
2 REFERENCED DOCUMENT	4
3 GENERAL	4
4 DEFINITIONS	4
5 DESIGNATION BLOCKS	4
6 ARRANGEMENT OF ITEM DESIGNATIONS	4
7 BLOCK 3: IDENTIFICATION OF ITEM (–)	5
8 BLOCK 1: HIGHER-LEVEL DESIGNATION (=)	7
9 BLOCK 2: LOCATION OF ITEM (+)	7
10 COMPARISON BETWEEN THE METHODS DESCRIBED IN CLAUSES 8.2 AND 9.3	9
11 BLOCK 4: TERMINAL DESIGNATION (:)	10

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-