

AS/NZS 3439.5:2001
IEC 60439-5:1996
IEC 60439-5:1996/Amd1:1998

AS/NZS 3439.5

Australian/New Zealand Standard™

**Low-voltage switchgear and controlgear
assemblies**

**Part 5: Particular requirements for
assemblies intended to be installed
outdoors in public places—
Cable distribution cabinets (CDCs) for
power distribution in networks**



Standards Australia



STANDARDS
NEW ZEALAND
Pūrongo Aotearoa

AS/NZS 3439.5:2001

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-006, Industrial Switchgear and Controlgear. It was approved on behalf of the Council of Standards Australia on 18 June 2001 and on behalf of the Council of Standards New Zealand on 25 July 2001. It was published on 28 September 2001.

The following interests are represented on Committee EL-006:

Australasian Railway Association
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Bureau of Steel Manufacturers of Australia
Electrical Contractors Association of New Zealand
Electricity Supply Association of Australia
Independent Electrical Switchboard Manufacturers Association
Institution of Engineers Australia
Ministry of Economic Development New Zealand
National Electrical and Communications Association
Testing Interests (Australia)
WorkCover N.S.W.

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia International or Standards New Zealand at the address shown on the back cover.

Australian/New Zealand Standard™

Low-voltage switchgear and controlgear assemblies

Part 5: Particular requirements for assemblies intended to be installed outdoors in public places— Cable distribution cabinets (CDCs) for power distribution in networks

First published as AS/NZS 3439.5:2001.

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 4028 6

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-006, Industrial Switchgear and Controlgear.

The objective of this Standard is to provide supplementary requirements for cable distribution cabinets (CDCs) for outdoor installation in places which are exposed to the public but where only skilled persons have access for their use.

This Standard is Part 5 of the following series:

- AS/(NZS) 3439 Low-voltage switchgear and controlgear assemblies
- AS/NZS 3439.1 Part 1: Type-tested and partially type-tested assemblies
- AS 3439.2 Part 2: Particular requirements for busbar trunking systems (busways)
- AS 3439.3 Part 3: Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access to their use—Distribution boards
- AS/NZS 3439.4 Part 4: Particular requirements for assemblies for construction sites (ACS)
- AS/NZS 3439.5 Part 5: Particular requirements for assemblies intended to be installed outdoors in public places—Cable distribution cabinets (CDCs) for power distribution in networks (this Standard)

This Standard is identical with and has been reproduced from IEC 60439-5:1996, *Low-voltage switchgear and controlgear assemblies—Part 5: Particular requirements for assemblies intended to be installed outdoors in public places—Cable distribution cabinets (CDCs) for power distribution in networks* and includes its Amendment 1:1998.

The clauses of this Standard supplement, modify or replace clauses in IEC 60439-1.

A reference to an International Standard identified in the Normative References Clause by strikethrough (~~example~~) is replaced by a reference to the Australian or Australian/New Zealand Standard(s) listed immediately thereafter and identified by shading (**example**). Where the struck-through referenced document and the referenced Australian or Australian/New Zealand Standard are identical, this is indicated in parenthesis after the title of the latter.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text 'this standard' should read 'this Australian/New Zealand Standard'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

The term 'normative' has been used in this Standard to define the application of the annex to which it applies. A 'normative' annex is an integral part of a Standard.

CONTENTS

Clause	<i>Page</i>
1 General	1
1.1 Scope and object	1
1.2 Normative references	1
2 Definitions	2
2.1 General	2
2.2 Constructional units of ASSEMBLIES	3
2.3 External design of ASSEMBLIES	3
2.5 Conditions of installation of ASSEMBLIES	3
2.7 Gangways within ASSEMBLIES	3
3 Classification of ASSEMBLIES	3
4 Electrical characteristics of ASSEMBLIES	3
4.9 Rated current (of a cable distribution cabinet)	3
5 Information to be given regarding the ASSEMBLY	4
5.1 Name plates	4
6 Service conditions	4
6.1 Normal service conditions	4
6.2 Special service conditions	4
7 Design and construction	4
7.1 Mechanical design	4
7.2 Enclosure and degree of protection	5
7.4 Protection against electric shock	5
7.6 Switching devices and components installed in ASSEMBLIES	6
8 Test specifications	6
8.1 Classification of tests	6
8.2 Type tests	7
Figure 1— Typical distribution network	15
Figure 2— Diagram of test to verify the resistance to static load	15
Figure 3— Sandbag for test to verify the resistance to shock load	16
Figure 4— Diagram of test to verify the resistance to shock load	16
Figure 5— Diagram of test to verify the resistance to torsional stress	17
Figure 6— Diagram of test to verify impact force withstand	17
Figure 7— Diagram of test to verify the mechanical strength of doors	18
Figure 8— Striker element for test of resistance to mechanical shock impacts induced by sharp-edged objects	18
Figure 9— Typical test arrangement for mechanical strength of base	18
Annex A - Minimum and maximum cross-sections of copper and aluminium conductors suitable for connection (see 7.1.3.2)	19

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](#)
-