



NEGARA BRUNEI DARUSSALAM

**BRUNEI DARUSSALAM STANDARD
PIAWAI BRUNEI DARUSSALAM**

**PBD IEC 60364-7-704: 2010
IEC 60364-7-704: 2010
Edition 2.0**

**LOW-VOLTAGE ELECTRICAL INSTALLATIONS -
PART 7-704: REQUIREMENTS FOR SPECIAL INSTALLATIONS
OR LOCATIONS - CONSTRUCTION AND DEMOLITION
SITE INSTALLATIONS**

**ENERGY DIVISION, PRIME MINISTER'S OFFICE
IN COLLABORATION WITH MINISTRY OF DEVELOPMENT
NEGARA BRUNEI DARUSSALAM**

FOREWORD

This Brunei Darussalam Electrical Standard was prepared by the Technical Committee on Electrical Standards (TECO), Energy Division at Prime Minister's Office in collaboration with the Authority for Building and Construction Industry (ABCI), Ministry of Development, Brunei Darussalam with the objective of developing the National Electrical Standards for electrical products, systems, equipments and facilities for the local industry and consumers with reference to international standards, guidelines and procedures. In developing the national electrical standards, the aim is to promote quality, technical integrity, health, safety and environmental standards for the local industries and consumers.

This Brunei Darussalam Electrical Standard is an adoption of the International Electro Technical Commission IEC 60364-7-704: 2005 (Edition 2.0) standard and implements it as the Brunei Darussalam National Standard.

Attention is drawn to the fact that this Brunei Darussalam Electrical Standard does not confer any immunity from legal obligations in any contract for compliance to the Standard.

The National Electrical Standards are subject to periodical review according to the current needs of the local industries and consumers to keep abreast of progress in the industries and consumers concerned. Suggestions of amendments will be recorded and in due course brought to the notice of the committees concerned.

COMMITTEE MEMBERS

The Technical Committee on Electrical Standards (TECO) was tasked by the Energy Division at the Prime Minister's Office in collaboration with the Authority for Building and Construction Industry (ABCI), Ministry of Development, Brunei Darussalam for the preparation of this Brunei Darussalam Electrical Standard. The members of the Technical Committee are as follows:

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| 1. Awg Haji Abd Shawal Yaman
(Chairman) | Department of Electrical Services, PMO |
| 2. Awg Liaw Wai Khiong
(Co-Chairman) | Brunei Shell Petroleum Co. Sdn Bhd /
Institution of Engineering and Technology,
Brunei Darussalam |
| 3. Pg Shaharuddin Pg Haji Yusoff
(Secretary) | ABCI, Ministry of Development |
| 4. Awg William Voon
(Assistant Secretary 1) | Berakas Power Management Company, |
| 5. Awg Simon K A Leong
(Assistant Secretary 2) | KR Kamarulzaman & Associates |
| 6. Awg Haji Md Azrul Azrin Hj Md Zain | Department of Electrical Services, PMO |
| 7. Awg Md Amir Sharifuddin Haji Ali | Department of Electrical Services, PMO |
| 8. Awg Khairul Ezam Hj Mohd Zain | ABCI, Ministry of Development |
| 9. Awg Dennis Wong Tet Yin | Department of Mechanical & Electrical
Services, PWD |
| 10. Awg Nohi Irwan Surkarki Haji Pawi | Department of Fire & Rescue Services |
| 11. Awg Haji Morsidi Haji Kassim | Institut Teknologi Brunei |
| 12. Awg Haji Ismit Haji Mohamad | Institut Teknologi Brunei |
| 13. Awg Matyassin Haji Masri | Maktab Kejuruteraan Jefri Bolkiah |
| 14. Awg Sylvester Kong | Brunei Shell Petroleum Co. Sdn Bhd |
| 15. Dyg Seri Malati OKIP Hj Zolkeflee | Brunei Shell Petroleum Co. Sdn Bhd |
| 16. Awang Aristoteles Momin | Brunei LNG Sdn Bhd |
| 17. Awg Rick Liaw | Hamzah Hassan Consultant |

SUB-COMMITTEE NO. 5 MEMBERS

The Sub-Committee No. 5 (SC5) is the working groups for the Electrical Wiring Code of Practice who assisted in the preparation for the adoption of the Brunei Darussalam Electrical Standard. The members of the Sub-Committee No. 5 are :

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| 1. Awg William Voon
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| 2. Awg Liaw Wai Khiong
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| 12. Awg Tony Ng | PKS Sdn Bhd |
| 13. Awg N. Sivakumar | LKH (B) Sdn Bhd |
| 14. Awg Tan Tau Minn | SEC Mashibah Sdn Bhd |

INTERNATIONAL STANDARD

IEC
60364-7-704

Second edition
2005-10

Low-voltage electrical installations –

Part 7-704:
Requirements for special
installations or locations –
Construction and demolition
site installations



Reference number
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This IEC International Standard has been adopted by CPRU, Ministry of Development,
Negara Brunei Darussalam as a national standard under the IEC Affiliate Country Programme

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE ELECTRICAL INSTALLATIONS –

**Part 7-704: Requirements for special installations or locations –
Construction and demolition site installations**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60364-7-704 has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock.

This second edition cancels and replaces the first edition published in 1989 and constitutes a technical revision.

The main changes with respect to the previous edition are as follows:

- circuits supplying 32 A rating or less socket-outlets, as well as the socket-outlets are to be protected by 30 mA RCDs;
- circuits supplying socket-outlets over 32 A rating to be protected by 500 mA RCDs.

The text of this standard is based on the following documents:

FDIS	Report on voting
64/1477/FDIS	64/1492/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

IEC 60364 consists of the following parts, under the general title *Low-voltage electrical installations*:

Part 1: Fundamental principles, assessment of general characteristics, definitions

Part 2: Void

Part 3: Void

Part 4: Protection for safety

Part 5: Selection and erection of electrical equipment

Part 6: Verification

Part 7: Requirements for special installations or locations

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

INTRODUCTION

The requirements of this part of IEC 60364 supplement, modify or replace certain of the general requirements of the other parts of IEC 60364.

The clause numbering of part 704 follows the pattern and corresponding references of IEC 60364. The numbers following the particular number of part 704 are those of the corresponding parts, or clauses of IEC 60364.

The absence of reference to a part, a clause or a subclause means that the corresponding general requirements are applicable.

LOW-VOLTAGE ELECTRICAL INSTALLATIONS –

Part 7-704: Requirements for special installations or locations – Construction and demolition site installations

704.1 Scope

The following requirements are added:

704.1.1 The special requirements of this part apply to temporary installations for construction and demolition sites during the period of the construction or demolition work, including for example the following:

- construction work of new buildings;
- repair, alteration, extension, demolition of existing buildings or parts of existing buildings;
- engineering works;
- earthworks;
- work of similar nature.

The requirements apply to fixed or moveable installations.

The rules do not apply to

- installations covered by the IEC 60621 series ¹⁾, where equipment of a similar nature to that used in surface mining applications is involved;
- installations in administrative locations of construction sites (offices, cloakrooms, meeting rooms, canteens, restaurants, dormitories, toilets, etc.) where the general rules of Parts 1 to 6 of IEC 60364 apply.

NOTE For special situations, more severe requirements apply, e.g. part 706 ²⁾ for conductive locations with restricted movement.

704.2 Normative references

The following referenced documents are indispensable for the application of this document. For dated reference, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

IEC 60245-4, *Rubber insulated cables – Rated voltages upto and including 450/750 V – Part 4: Cords and flexible cables*

IEC 60309-1, *Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements*

IEC 60309-2, *Plugs, socket-outlets and couplers for industrial purposes – Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories*

¹⁾ IEC 60621 (all parts), *Electrical installations for outdoor sites under heavy conditions (including open-cast mines and quarries)*

²⁾ IEC 60364-7-706:—, *Low-voltage electrical installations - Part 7-706: Requirements for special installations or locations - Conducting locations with restricted movement (to be published)*