

SS 275 : 1999 (2012)
(ICS 29.060.01)

SINGAPORE STANDARD

Specification for cable trunking made of insulating material

Erratum No. 1 and Amendment No. 1 (issued separately) Confirmed 2012



Published by



SS 275: 1999 (2012)

(ICS 29.060.01)

SINGAPORE STANDARD

Specification for cable trunking made of insulating material

All rights reserved. Unless otherwise specified, no part of this Singapore Standard may be reproduced or utilised in any form or by any means, electronic or mechanical, including photocopying and microfilming, without permission in writing from Enterprise Singapore. Request for permission can be sent to: standards@enterprisesg.gov.sg.

This Singapore Standard was approved by the Electrical and Electronic Product Standards Committee on behalf of the Standards Council of Singapore on 8 October 1999.

First published, 1984 First revision, 1999

The Electrical and Electronic Product Standards Committee appointed by the Standards Council consists of the following members:

		Name	Organisation
Chairman	:	Mr Renny Yeo Ah Kiang	Standards Council
Secretary	:	Mrs Chan-Leow Guat Hiong	Singapore Productivity and Standards Board
Members	:	Mr Chua Seng Guan Mr Xavier David Mr Eio Siak Peng Dr Foo Yung Kuan Assoc Prof M A Jabbar Mr Lim Say Leong Mr Joseph Michael Mr Ng Kok Lip	Singapore Productivity and Standards Board Association of Electronics Industries in Singapore Housing & Development Board Singapore Electrical Trades Association National University of Singapore Singapore Confederation of Industries Public Utilities Board Singapore Chinese Chamber of Commerce and Industry
		Er. Ong Ser Huan	Institution of Engineers Singapore
		Assoc Prof Ooi Tian Hock	Nanyang Technological University
		Mr Patrick Peng	Singapore Information Technology Federation
		Mr K Seshadri	Singapore Confederation of Industries
		Mr Pradeep Kumar Sharma	Singapore Indian Chamber of Commerce and Industry
		Mr Sia Giin	Singapore International Chamber of Commerce
		Dr Ricky Tam Yin Jun	Institution of Engineers Singapore
		Mr Wong Yau Liong	Telecommunication Authority of Singapore

The Technical Committee appointed by the Electrical and Electronic Product Standards Committee and responsible for the preparation of this standard, consists of representatives from the following organisations:

		Name	Organisation
Chairman	:	Mr Tan Boon Chong	Singapore Confederation of Industries
Secretary	:	Mrs Leong Suet Mui	Singapore Productivity and Standards Board
Members	:	Mr Leslie Earnest	PWD Corporation Limited
		Mr Goh Sheng Sze	Singapore Confederation of Industries
		Mr Koh Tian Seng	Power Supply Ltd
		Mr Jeffrey Lam Boon Kee	Jurong Town Corporation
		Mr Lim Say Leong	Institution of Engineers, Singapore
		Mr Joseph Michael	Public Utilities Board
		Mr Ng Kin Ming	Singapore Electrical Contractors Association

SS 275: 1999

Members: Mr Sia Teck Mong Singapore Electrical Trades Association

Mr Sim Wee Meng Land Transport Authority

Mr Tan Hiok Pheng Singapore Productivity and Standards Board

Mr Ting Ik Hing Housing & Development Board

The Working Group appointed by the Technical Committee to assist in the preparation of this standard consists of the following members:

		Name	Organisation
Convenor	:	Mr Sia Teck Mong	Electech Distribution Systems Pte Ltd
Members	:	Mr Goh Sheng Sze	MK Electric (S) Pte Ltd
		Mr Alexander Philip	Clipsal Singapore Pte Ltd
		Mr Sim Wee Meng	Land Transport Authority
		Mr Joaquim Siu	King Wai Industries (S) Pte Ltd
		Mr Tan Kok Koon	Housing & Development Board
		Mr Vincent Wee	Singapore Productivity and Standards Board
		Mr Roy Wong	CMS Power Pte Ltd

(blank page)

Contents Page SPECIFICATION Definitions General requirements General notes on tests Classification Marking _____ Dimensions Construction _____ Mechanical properties _____ Resistance to heat _____ Resistance to flame propagation _____ Insulating characteristics _____ ANNEX Trunking marking classification codes Α **TABLES** Temperature classifications _____ Impact test values _____ **FIGURES** Cable supporting test apparatus Impact test apparatus _____ Ball pressure test apparatus_____ Arrangement for flame test_____

Electrical insulating strength and insulation resistance test

Foreword

This Singapore Standard has been prepared by the Technical Committee on Electrical Accessories under the direction of the Electrical and Electronic Product Standards Committee. It is a revision of SS 275: 1984.

The scope has been expanded to cover the possibility of other electrical equipment contained in the cable trunking. Clauses on classification, construction, mechanical properties, resistance to flame propagation and insulating characteristics were based on IEC 61084-1: 1991 - Cable trunking and ducting systems for electrical installations, Part 1: General requirements. The fitting and cover removal test is replaced by the cover retention test to check for loosely fitted covers. Clauses on resistance to heat and the Annex A on classification codes were adapted from IEC 60614-1: 1994, Conduits for electrical installations - Specification, Part 1: General requirements and IEC 60614-2-2: 1980 Part 2 - Particular requirements for rigid plain conduits of insulating material. Figure 6a of SS 275: 1984 on coating of the sample has been retained as Figure 5a. Ducting systems are not included in the standard.

In preparing this standard reference was also made to BS 4678: Part 4: 1982, Specification for cable trunking made of insulating materials and EN 50085-1: 1997, Cable trunking systems and cable ducting systems for electrical installations - Part 1: General requirements.

Acknowledgement is made for the use of information from the overseas publications.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

- Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions.
- 2. An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR.
- 3. Compliance with a SS or TR does not exempt users from any legal obligations.

Specification for cable trunking made of insulating material

1 Scope

This standard specifies requirements for cable trunking of insulating material intended for the accomodation, and where necessary, for the segregation, of insulated conductors, cables or cords and possibly other electrical equipment contained therein.