

**SS 546:2022**  
(ICS 13.320; 91.120)

**SINGAPORE STANDARD**

**Code of practice for emergency voice  
communication systems in buildings**



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## **Foreword**

This Singapore Standard was prepared by the Working Group on Emergency Alarm and Communication Systems set up by the Technical Committee on Buildings Facilities and Services under the purview of the Electrical and Electronic Standards Committee.

This standard is a revision of SS 546:2009 “Code of practice for emergency voice communication systems in buildings”.

This Singapore Standard was revised to keep abreast of the progress of voice communication technology in buildings and to align the requirements with the new generation of high-rise buildings constructed in recent years. The key changes made in this revision were as follows:

- a) Updated live voice messages and pre-recorded messages, including their sequence, format and wording;
- b) Updated sample messages;
- c) Updated requirements on interface to fire alarm system, remote handsets, power supply / battery, maintenance and testing;
- d) Added properties and usage of emergency microphones;
- e) Added an annex on message broadcast flowchart;
- f) Renumbered clauses and subclauses.

In preparing this standard, references were made to the following publications:

BS 5839-8: 2013	Fire detection and fire alarm systems for buildings – Part 8: Code of practice for the design, installation, commissioning and maintenance of voice alarm systems
BS 5839-9: 2011	Fire detection and fire alarm systems for buildings – Part 9: Code of practice for the design, installation, commissioning and maintenance of emergency voice communication systems

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# Code of practice for emergency voice communication systems in buildings

## 1 Scope

This standard applies to the planning, design, installation, maintenance and testing of emergency voice communication (EVC) systems in buildings. It sets out the requirements for the basic system. Recommended procedures for the use of the system and other information of an advisory nature are given in the Annexes.

## 2 Normative references

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

SS 299	Fire-resistant cables of rated voltage up to and including 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire – Requirements and test methods
SS 638	Code of practice for electrical installations
IEC 60331-25: 1999	Tests for electric cables under fire conditions – Circuit integrity – Part 25: Procedures and requirements – Optical fibre cables