



BSI Standards Publication

Flexible hoses, end fittings and sockets for gas burning appliances

Part 1: Strip-wound metallic flexible hoses, covers, end fittings
and sockets for domestic appliances burning 1st, 2nd and
3rd family gases — Specification

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Foreword

Publishing information

This part of BS 669 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 January 2022. It was prepared by Technical Committee GSE/42, *Gas fittings and connections*. A list of organizations represented on this committee can be obtained on request to the committee manager.

Supersession

This part of BS 669 supersedes [BS 669-1:1989](#), which is withdrawn.

Relationship with other publications

BS 669 is published in the following parts:

- Part 1: *Strip-wound metallic flexible hoses, covers, end fittings and sockets for domestic appliances burning 1st, 2nd and 3rd family gases – Specification*; and
- Part 2: *Specification for corrugated metallic flexible hoses, covers, end fittings and sockets for catering appliances burning 1st, 2nd and 3rd family gases*.

Information about this document

This is a full revision of the standard, and introduces the following principal changes:

- technical content revised and standards updated to current editions;
- classification of products based on reaction to fire added; and
- addition of 3rd family gases.

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Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

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Section 1: General

1 Scope

This part of BS 669 specifies requirements for strip-wound flexible hoses, and end fittings and sockets for use with domestic appliances (including cookers). It applies to hoses designed for use with 1st and 2nd family gases at a nominal inlet pressure not exceeding 20 mbar¹⁾ or for 1st, 2nd and 3rd family gases at a nominal inlet pressure not exceeding 50 mbar.

The requirements for strip-wound flexible hoses with end fittings attached are specified in [Section 2](#). [Section 3](#) specifies additional requirements for the end fittings and sockets.

NOTE Strip-wound flexible connection assemblies in accordance with this specification are not suitable for installations where the ambient air temperature exceeds 70 °C, nor where there is the possibility of contact with hot surfaces exceeding 95 °C.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes provisions of this document²⁾. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[BS 1179-6:1980](#), *Glossary of terms used in the gas industry – Part 6: Combustion and utilization including installation at consumers' premises*

[BS 1449-1.14:1991](#), *Steel plate, sheet and strip – Part 1: Carbon and carbon-manganese plate, sheet and strip – Section 1.14: Specification for hot rolled narrow strip supplied in a range of conditions for heat treatment and general engineering purposes*

[BS 2751](#), *General purpose acrylonitrile-butadiene rubber compounds – Specification*

[BS 4518](#), *Specification for metric dimensions of toroidal sealing rings ('O'-rings) and their housings*

[BS EN 549](#), *Rubber material for seals and diaphragms for gas appliances and gas equipment*

[BS EN 751-2](#), *Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water – Part 2: Non-hardening jointing compounds*

[BS EN 1775:2007](#), *Gas supply – Gas pipework for buildings – Maximum operating pressure less than or equal to 5 bar – Functional recommendations*

[BS EN 10226](#) (all parts), *Pipe threads where pressure tight joints are made on the threads*

[BS EN 10246](#), *Continuously hot-dip coated steel flat products for cold forming – Technical delivery conditions*

[BS EN 12164:2016](#), *Copper and copper alloys – Rod for free machining purposes*

[BS EN 12165:2016](#), *Copper and copper alloys – Wrought and unwrought forging stock*

[BS EN 13501-1:2018](#), *Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests*

[BS EN 13823](#), *Reaction to fire tests for building products – Building products excluding floorings exposed to the thermal attack by a single burning item*

¹⁾ 1 mbar = 100 N/m² = 100 Pa.

²⁾ Documents that are referred to solely in an informative manner are listed in the Bibliography.