

Specification for

Ships' deck machinery — anchor cable stoppers

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Foreword

This British Standard has been prepared under the authority of the Shipbuilding and Marine Industry Standards Committee and has been developed from a proposal submitted by the British Ship Research Association.

It forms one of a series dealing with deck machinery for ships and provides requirements for the design, construction, safety, performance and acceptance testing of anchor cable stoppers.

Other standards in this series are:

BS MA 30, *Glossary of terms and graphical symbols for ships' deck machinery.*

BS MA 31, *Ships' deck machinery — cargo winches.*

BS MA 32, *Ships' deck machinery — mooring winches.*

BS MA 33, *Ships' deck machinery — warping winches.*

BS MA 34, *Ships' deck machinery — capstans.*

BS MA 35, *Ships' deck machinery — windlasses*¹⁾.

BS MA 52, *Ships' deck machinery — accommodation ladder winches.*

An anchor cable stopper is a device secured to the ship's structure, separate from the windlass cable lifter for the purposes of securing the anchor cable, in order to:

- a) relieve the windlass of excessive shock loads caused by movement of the ship when it is riding at anchor.
- b) prevent outward movement of the anchor cable.
- c) provide added safety when the anchor is secured in the housed position.

The sizes and strength grades of materials for anchor cable are specified on a unified basis by the rules of the classification societies. In terms of strength, anchor cables are classified into three major grades as follows:

- 1st grade: tensile strength 304–490 N/mm²
- 2nd grade: tensile strength 490–640 N/mm²
- 3rd grade: tensile strength 687 N/mm² minimum.

For the purposes of this standard, the highest tensile grade (687 N/mm² min.) anchor cable has been selected as the basis to establish the minimum design load for a cable stopper for any particular diameter of cable. It is recognised that this grade is not normally available in sizes below 40 mm.

The selection of an anchor cable stopper should be made with reference to BS MA 35¹⁾.

Testing of anchor cable for use in ships registered in the United Kingdom is subject to the provisions of the Anchors and Chain Cables Act 1967 as detailed in the Anchors and Chain Cables Rules 1970 (statutory instrument 1970 No. 1453). Dimensional details for anchor cables are given in BS 3006.

This standard makes reference to the following British Standards:

BS MA 30, *Glossary of terms and graphical symbols for ships' deck machinery.*

BS MA 35, *Ships' deck machinery — windlasses*¹⁾.

BS 1486, *Lubricating nipples — Part 1: Lubricating nipples and adaptors for use on machinery and vehicles.*

BS 1856, *General requirements for the metal-arc welding of mild steel.*

BS 3006, *Dimensions of ships' stud link anchor cables.*

Certification. Attention is drawn to the certification facilities described on the inside back cover of this standard.

¹⁾ In course of preparation.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.