

Specifications for

Woven cotton webbings of five qualities

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Co-operating organizations

The Textile Divisional Council, under whose supervision these British Standards were prepared, consists of representatives from the following Government department and scientific and industrial organizations:

- British Railways Board
- Consumers' Association
- Consumer Standards Advisory Committee of BSI
- Cotton Industry Standards Committee
- Jute Industry Standards Committee
- Linen Industry Standards Committee
- London Transport Executive
- Man-made Fibres Industry Standards Committee
- Ministry of Defence*
- Ropes and Cordage Industry Standards Committee
- Silk Industry Standards Committee
- Society of Dyers and Colourists
- Textile Institute*
- Textile Machinery Industry Standards Committee
- Trades Union Congress
- Wool Industry Standards Committee

The Government department and scientific organization marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of these British Standards:

- Association of Solid Woven Belting Manufacturers
- British Federation of Textile Smallware Manufacturers
- British Man-made Fibres Federation
- Department of Trade and Industry
- Lambeg Industrial Research Association
- Ministry of Defence, Army Department
- Narrow Fabrics Federation Limited
- Ribbon, Label and Smallwares Manufacturers' Association
- Tape Manufacturers' Association
- Webbing Manufacturers' Association

These British Standards, having been approved by the Textile Divisional Council were published under the authority of the Executive Board on 12 March 1974

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The following BSI references relate to the work on these standards:
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Foreword

The first edition of these British Standards was published in 1950 and was prepared by the Narrow Fabrics Committee under the authority of the Textile Divisional Council.

In the present revision, trade associations of the narrow fabrics industry have agreed on a range of narrow fabric widths in increments of 5 mm. Metric values have been used both for the agreed range of metric widths and for the several traditional widths that have been included for convenience. Imperial equivalents to the nearest 1/16 in are given for information.

The specifications are based, by agreement, upon the work of the Textiles Sub-committee of the Ministry of Defence. In addition to this Service co-operation, manufacturing and user organizations have collaborated in the preparation of the standards.

Whilst the webbings covered by these standards fulfil the requirements of the Services, of Government departments except for aerospace requirements which are met by the British Standard Aerospace series of specifications, and of national organizations, the standards have been prepared with a view to their use in commercial trading generally, as it has been found that a need exists for quality standards for woven cotton webbings for a wide variety of purposes.

The standard webbings are not necessarily suitable for use in the electrical industry, and reference should be made to BS 633, "*Cotton selvedge tapes and webbing for electrical purposes*", for materials particularly suited to that application.

For convenience of reference, the specifications for the five qualities of webbing have been given separate British Standard serial numbers. As the methods of test are common to all five types, they have been included as appendices at the end of the volume.

It should be noted that Appendix H has been included for the convenience of the Services and Government departments, and its requirements relate specifically to their transactions.

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 and ii, pages 1 to 12, 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.

Woven cotton webbing No. 1 (0.88 kg)¹⁾

1 Scope

This British Standard specifies details of construction and minimum requirements for the manufacture of one width of cotton webbing. Methods of test are given.

NOTE 1 In ordering to this British Standard, the purchaser should state the width of material, and, if required, the particular finish.

NOTE 2 The titles of the British Standards referred to in this standard are listed on the inside back cover.

2 Material

The webbing shall be made from cotton yarn. In the past, untreated yarn made from American type cotton has been found suitable.

3 Manufacture

3.1 Construction. The yarns shall be uniformly spun and evenly folded.

The webbing shall be uniformly woven and free from defects and the weave shall be 2/2 twill with a 3-V draft. The selvages shall be firm and straight.

Shuttleless webbing shall comply with the conditions described in Appendix G.

3.2 Makeup of reel or roll

3.2.1 Length. The webbing shall be supplied in rolls 50 m in length, or as specified by the purchaser.

The webbings shall be as free from joins as is practicable, and fine joins shall not exceed two in a 50 m roll; if unjoined, the roll shall comprise not more than three pieces. Pins or other metal fasteners shall not be used to join any two lengths of webbing. Cut lengths shall be not less than 5 m unless otherwise arranged between the purchaser and the manufacturer.

An additional 0.25 m of webbing shall be added to the roll length for each cut, subject to any special requirement.

3.2.2 Width. The width of the webbing as supplied shall not differ from the specified width by more than $\pm 4\%$ for webbing in the loomstate or $\pm 6\%$ for webbing that has been dyed or otherwise processed.

3.3 Finish. The webbing shall be supplied in a clean condition. It shall not be treated in any way, either during or after manufacture, unless required to be dyed or otherwise treated, when the processing shall be that specified by the purchaser.

If the webbing is required rot-proofed, the rot-proofing agent and the level of application shall be agreed between the purchaser and the manufacturer. Methods of rot-proofing are given in BS 2087.

It is emphasized that the particulars given in Table 1 relate only to the loomstate webbing. Any deviations from the values given in Table 1 resulting from dyeing and/or finishing treatments shall be agreed between the purchaser and the manufacturer.

3.4 Marking. If any marking is required, this shall be in accordance with arrangements to be made between the purchaser and the manufacturer.

NOTE Attention is drawn to the certification facilities offered by BSI; see the inside back cover of this standard.

3.5 Packaging. Packaging shall be in accordance with arrangements to be made between the purchaser and the manufacturer.

4 Testing

4.1 Sampling. Test specimens for testing for compliance with the requirements specified for the webbing shall be taken from samples selected by the purchaser or his representative from different parts of the consignment so that they represent adequately the quality of the webbing being supplied.

4.2 Conditioning. The specimens of webbing shall be conditioned by the method described in Appendix A.

4.3 Testing for compliance. The mass, picks per centimetre and ends in width, and breaking load shall meet the requirements given in Table 1 when tested by the method described in Appendix D, Appendix E and Appendix F respectively.

The length of the roll shall meet the requirements given in 3.2.1 when tested by the method described in Appendix C.

The width of the roll shall meet the requirements given in 3.2.2 when tested by the method described in Appendix B.

All specimens tested shall comply with the requirements for breaking load given in Table 1, otherwise the whole of the consignment of material under test shall be deemed not to comply with the requirements of this standard.

¹⁾ The mass per 100 m $\times$ 25 mm width of webbing No. 1.

Table 1 — Webbing No. 1 (loomstate particulars) metric units

NOTE Imperial equivalents are given for information.

Reference number	Width	Linear density ^a		Minimum number of ends in width	Minimum number of picks	Mass per 100 m ± 5 %	Mass ^d per 144 yd ± 5 %	Minimum breaking load
		Warp	Weft					
	mm (in)				per cm (in)	kg	oz	N ^e (lbf)
BS 1664-38 ^b	38 (1½)	R90 tex/3 ^c (20s/3)	R74 tex/2 ^c (16s/2)	88	15.8 (40)	1.35	62	690 (155)
^a The linear density is given solely for the guidance of manufacturers. ^b This width is included as an interim measure to meet some current demands and is non-preferred. It is hoped that its usage will be discouraged so that it may be adjusted to a millimetre width divisible by five. ^c The letter R in these designations is included to emphasize that the tex value is that of the resultant linear density. ^d These figures show the traditional method of expressing mass. ^e 1 lbf = 4.448 N.								