
**Rules for the preparation of
detail specifications for
Electrical charge storage display
cathode ray tubes of assessed
quality**

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The following BSI reference relates to the work on this standard:
Committee reference FL1/5/8 Draft for comment 71/23464

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The Telecommunication Industry Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

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| *British Broadcasting Corporation | Institution of Electrical and Electronic Technician Engineers |
| British Electrical and Allied Manufacturers' Association | Institution of Electrical Engineers |
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The Government departments and scientific and industrial organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

United Kingdom Atomic Energy Authority

Services Electronic Parts Committee

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Amendments issued since publication

Amd. No.	Date of issue	Text affected

British Standard

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1. Introduction

This British Standard is to be used in conjunction with BS 9050, 'Cathode ray tubes of assessed quality : generic data and methods of test'. The object of the rules in this standard is to ensure that all detail specifications in the sub-family of electrical-charge-storage cathode ray tubes are closely similar to enable detail specifications to be readily compared.

2. Scope

This standard lists the ratings, characteristics, inspection requirements and additional information which shall be included in each detail specification for electrical-charge-storage display cathode ray tubes of the general application category. The purpose of a detail specification is to describe fully a particular tube so that the specification can be used contractually for procurement of that tube, for acceptance testing and for circuit design and equipment maintenance purposes.

For the purposes of this standard an electrical-charge-storage display cathode ray tube is a display tube into which information may be introduced by means of a moving density-modulated electron beam and retained on a storage surface as a pattern of electrical charges, for reproduction later in the form of a visible image.

3. General

Detail specifications are prepared either by BSI or by manufacturers. They shall be prepared in accordance with the rules given in 3.1 to 3.4. The minimum information which is to be given in a detail specification is prescribed in the mandatory layout of this standard.

All detail specifications shall be printed on A4 size paper conforming to BS 4000, 'Sizes of papers and boards'.

3.1 Basic information. The information called for in 3.1.1 to 3.1.9 shall appear on the front page of the detail specifications, as far as is practicable. This information is not intended for inspection purpose; inspection requirements are described in 3.2.

3.1.1 Originator of the detail specification. Each detail specification shall give the name and address of the originator of the specification.

[3.1.2

3.1.2 Numbering of the detail specification. Each detail specification shall carry a distinguishing number made up of the number of this standard followed by a three-digit number to designate the particular detail specification. Where the detail specifications has been prepared by BSI the two portions of the distinguishing number shall be separated by the letter 'N', e.g. BS 9053 NXXX. When the detail specification has been prepared by a manufacturer BSI will issue an 'EP' number, e.g. EP 9053 FXXX which shall be used until such time as the qualification approval test report has been received by BSI, who will then issue a BS number which will be separated by the letter 'F', e.g. BS 9053 FXXX, to show that the detail specification has been prepared by a manufacturer.

The issue number and date of issue (month and year) of the detail specification shall be given and a re-issue shall give the issue number and date of issue of the superseded document, all changes being clearly marked.

3.1.3 Description of the tube and intended application. This shall be as shown on the first page of the mandatory layout for a detail specification.

3.1.4 Outline drawing. (Not for inspection purposes.) An illustration of the component showing the overall dimensions shall be given as an aid to easy recognition and for comparison of the tube with other tubes.

Terminal connections shall be given as appropriate. The symbols used shall be in accordance with the relevant British Standards or IEC Publications.

The location of the inspection drawings (see 3.3) shall be given.

3.1.5 Ratings. (Not for inspection purposes.) Any limiting conditions of use, e.g. mounting, shall be stated. The system of absolute ratings shall be used (see IEC Publication 134).

The ratings listed on the first page of the mandatory layout shall be stated. Additional ratings may be included at the manufacturer's discretion but in all cases the values of the ratings and the conditions under which the ratings apply shall be given. Any interdependence of the ratings shall be given.

3.1.5.1 Ratings. (limiting values). These are defined as ratings which establish either a limiting capability or a limiting condition of use beyond which significant performance deterioration, life reduction and/or possible damage to the device may occur.

NOTE. A limiting value may be either a maximum or a minimum quantity and is referred to as a 'maximum rating' or a 'minimum rating' respectively. Such a value does not necessarily define a frontier where one side gives satisfactory performance and the other immediate failure.

3.1.6 Characteristics. (Not for inspection purposes.) The characteristics to be stated are shown in the mandatory layout given in this standard. Additional characteristics may be included at the manufacturer's discretion but in all cases the conditions under which the characteristics are measured shall be stated.

3.1.7 Related documents. Reference shall be made to BS 9000, 'General requirements for electronic components of assessed quality', BS 9050, 'Cathode ray tubes of assessed quality : generic data and methods of test', and to all other British Standards or IEC Publications which are to be called up in the inspection schedule but are not already referenced in BS 9050.

3.1.8 Additional information. This part of the detail specification shall include any circuit diagrams, graphs and notes necessary to clarify any part of the detail specification. Also where any items such as those listed below are not fully defined in BS 9050 (and/or BS 9000 in some cases) or in other named documents, additional details covering those items shall be given in the detail specification.

- (1) Terms and definitions.
- (2) Letter symbols.
- (3) Test procedures.

The general principles contained in the relevant British Standards and/or IEC Publications shall be followed when preparing such additional information.

[3.1.8.1

3.1.8.1 Application data. The application data shall be that which, in the view of the manufacturer, will provide adequate user information. This information shall be given on a voluntary basis and is not a mandatory requirement in the sense of forming part of the inspection procedure to meet the needs of the detail specification. Where maximum and/or minimum curves are given these should represent the expected limits of the production spread, and the interpretation to be placed on these limits must be stated.

3.1.9 Ordering information. The minimum ordering information required for tubes covered by the detail specification shall be given, as shown in the mandatory layout.

3.2 Inspection requirements. The requirements of 2(10) of BS 9000:Part 2:1972 shall apply.

3.3 Inspection drawing. A detail drawing of the tube (or range of tubes) for inspection purposes shall be given together with a statement of the projection used. A table of dimensions, with tolerances, shall be given to show the dimensions which are appropriate for Groups B and C testing.

3.4 Certified test records. The purpose of certified test records, their position in the system of standardization of electronic components of assessed quality and the procedure for their preparation and issue are explained and specified in 2.8 of BS 9000.

To ensure maximum assistance to, and utilization by, tube users certified test records should contain only information of direct interest presented in a uniform and readily assimilable manner.

The requirements for the information to be presented in certified test records shall be as given in subgroups A5, C6 and D6.

[Mandatory layout

