

Doc No.: LITD 04 (26535) P  
Draft IS/IEC 60139: 2000  
[Superseding IS 5840 (Part 1):1970  
IS 5840 (Part 2):1970  
IS 5840 (Part 3):1970]

**BUREAU OF INDIAN STANDARDS**

**DRAFT FOR COMMENTS ONLY**

(Not to be reproduced without the permission of BIS or used as an Indian Standard)

मसौदा भारतीय मानक  
कैथोड-रे ट्यूब, उनके घटक, कनेक्शन और  
गेज के लिए रूपरेखा चित्र

---

*Draft Indian Standard*

*Preparation of Outline Drawings for  
Cathode-Ray Tubes, Their Components,  
Connections and Gauges*

*ICS: 31.100*

*©BIS 2024*

*©IEC 2000*

## NATIONAL FOREWORD

(Formal clauses will be added later)

This Draft Indian Standard which is identical with IEC 60139:2000 Preparation of outline drawings for cathode-ray tubes, their components, connections and gauges issued by the International Electrotechnical Commission (IEC) *will be* adopted by the Bureau of Indian Standards on the recommendation of Electronic Display Devices and Systems Sectional Committee and approval of the Electronics and Information Technology Division Council.

IS 5840 (Part 1) Dimensions of Cathode-Ray Tubes Part 1: Tube Outlines, IS 5840 (Part 2) Dimensions of Cathode-Ray Tubes Part 2: Bases and IS 5840 (Part 3) Dimensions of Cathode-Ray Tubes Part 3: EHT Terminal was published in 1970.

This superseding of IS 5840 (Part 1): 1970, IS 5840 (Part 2): 1970 and IS 5840 (Part 3):1970 is being done to align all these standards with the existing version of IEC 60139: 2000.

On publication of this Standard, IS 5840 (Part 1): 1970, IS 5840 (Part 2): 1970 and IS 5840 (Part 3):1970 stand withdrawn.

The text of IEC Standard *will be* approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appears referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

<b>International standards</b>	<b>Corresponding Indian standards</b>	<b>Degree of Equivalence</b>
IEC 60027-1:1995, Letter symbols to be used in electrical technology – Part 1: General	IS 3722 (Part 1): 2023 Letter Symbols and Signs Used in Electrical Technology - Part 1: General (Second Revision)	Identical

IEC 60050 (All Parts), International Electrotechnical Vocabulary (IEV)	IS 1885 (All Parts) Electrotechnical vocabulary	Identical
IEC 60617 (All Parts), Graphical symbols for diagrams	IS 12032 (All Parts), Graphical symbols for diagrams in the field of electrotechnology	Identical

The technical committee has reviewed the provisions of the following International Standard referred in this adopted draft standard and has decided that it is acceptable for use in conjunction with this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

<b>International Standards</b>	<b>Title</b>
ISO 1000	SI units and recommendations for the use of their multiples and of certain other units

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:2022 ‘Rules for rounding off numerical values (*Second Revision*)’. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

---

### **SCOPE OF IEC 60139: 2000**

“This International Standard gives guidance on the preparation of outline drawings of cathode-ray tubes (CRTs), tube components, tube sub-assemblies and ancillary components with the object of encouraging the same practice when publications are prepared in different countries. These recommendations are contained in the specimen drawings, descriptive text and in the tables of required dimensions.”

**Note:** - The Technical content of this document has not been enclosed as these are identical with the corresponding IEC Standard. For details, please refer to IEC 60139: 2000 or kindly contact.

#### **Head,**

Electronics & IT Department  
Bureau of Indian Standards  
9, B.S. Zafar Marg,  
New Delhi-110002  
Email: litd@bis.gov.in  
Tele: 011-23608401