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IS 2418-3 (1977): Tubular Fluorescent Lamps for General Lighting Service, Part III: Dimensions of G-5 and G-13 Bi-Pin Caps [ETD 23: Electric Lamps and their Auxiliaries]



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IS : 2418 (Part III) 1977

(Reaffirmed 2001)

Indian Standard

**SPECIFICATION FOR
TUBULAR FLUORESCENT LAMPS FOR
GENERAL LIGHTING SERVICE
PART III DIMENSIONS OF G-5 AND G-13 BI-PIN CAPS
(*First Revision*)**

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**BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002**

Indian Standard
**SPECIFICATION FOR
TUBULAR FLUORESCENT LAMPS FOR
GENERAL LIGHTING SERVICE**
PART III DIMENSIONS OF G-5 AND G-13 BI-PIN CAPS
(First Revision)

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Indian Standard
**SPECIFICATION FOR
TUBULAR FLUORESCENT LAMPS FOR
GENERAL LIGHTING SERVICE**
PART III DIMENSIONS OF G-5 AND G-13 BI-PIN CAPS
(First Revision)

0. FOREWORD

0.1 This Indian Standard (Part III) (First Revision) was adopted by the Indian Standards Institution on 24 February 1977, after the draft finalized by the Electric Lamps and Accessories Sectional Committee had been approved by the Electrotechnical Division Council.

0.2 This standard was first published in 1964 as IS:2418. The revision of this standard has been undertaken with a view to incorporating the dimensions of one more type of cap G-5. In the revision of this standard assistance has been derived from the IEC Publication 61-1 (1969) 'Lamp caps and holders together with gauges for the control of interchangeability and safety: Part I Lamp caps', issued by the International Electrotechnical Commission.

0.3 This standard (Part III) specifies the dimensions of G-5 and G-13 bi-pin caps.

0.4 This standard (Part III) shall be read in conjunction with the following Indian Standards:

IS:2418 (Part I)-1977 Specification for tubular fluorescent lamps for general lighting service: Part I Requirements and tests (*first revision*)

IS:2418 (Part II)-1977 Specification for tubular fluorescent lamps for general lighting service: Part II Standard lamp data sheets, (*first revision*)

IS:2418 (Part IV)-1977 Specification for tubular fluorescent lamps for general lighting service: Part IV Go and no-go gauges for G-5 and G-13 bi-pin caps (*first revision*)

0.5 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, shall be rounded off in accordance with IS:2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Rules for rounding off numerical values (*revised*).

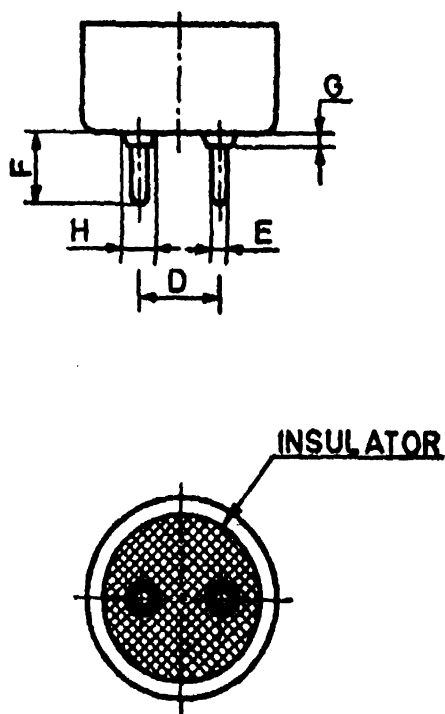
1. SCOPE

1.1 This standard (Part III) covers the dimensions of G-5 and G-13 bi-pin caps for tubular fluorescent lamps for general lighting service.

2. DIMENSIONS

2.1 Dimensions of G-5 and G-13 bi-pin caps are given in Table 1 and Table 2 respectively.

TABLE 1 DIMENSIONS OF LAMP CAPS FOR G-5



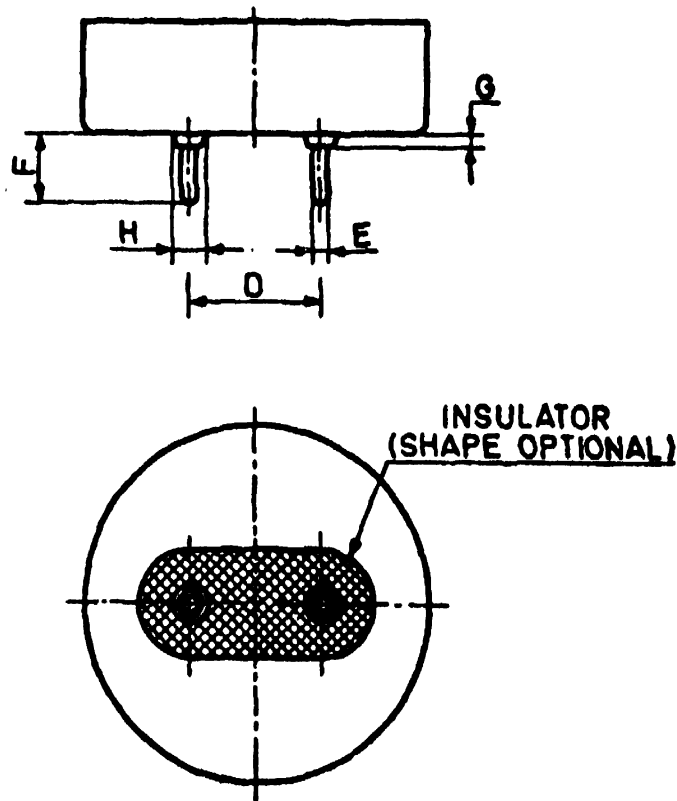
All dimensions in millimetres.

DIMENSION	MINIMUM	NOMINAL	MAXIMUM	MAXIMUM ON FINISHED LAMP
(1)	(2)	(3)	(4)	(5)
D^*	—	4.75	—	—
E	2.29	—	2.44	2.67
F	6.60	—	7	7.77
G	—	—	1.27	1.27
H	—	—	3.30	3.30

NOTE — For finished lamps, the creepage distance over insulation between live parts and metal shell, shall be not less than 1.5 mm.

*The tolerance for D is under consideration.

TABLE 2 DIMENSIONS OF LAMP CAPS FOR G-13



All dimensions in millimetres.

DIMENSION	MINIMUM	NOMINAL	MAXIMUM	MAXIMUM ON FINISHED LAMP
(1)	(2)	(3)	(4)	(5)
D^*	—	12.70	—	—
E	2.29	—	2.44	2.67
F^\dagger	6.60	—	—	7.77
G	—	—	1.27	1.27
H	—	—	3.30	3.30

NOTE — For finished lamps, the creepage distance over insulation between live parts and metal shell, shall be not less than 2.5 mm.

*The tolerance for D is under consideration.

†When soldering is used in fastening the lead wire, the recommended pin length (maximum) on the unassembled cap shall be 7.29 mm.

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