

Specification for

Capacitors for railway signalling track circuits

Co-operating organizations

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

- Admiralty
- Air Ministry
- Associated Offices' Technical Committee
- Association of Consulting Engineers (Incorporated)
- Association of Supervising Electrical Engineers
- British Electrical and Allied Industries Research Association
- British Electrical and Allied Manufacturers' Association*
- British Electrical Development Association
- British Railways, The British Transport Commission*
- Cable Makers' Association
- Crown Agents for Oversea Governments and Administrations*
- Electric Lamp Industry Council
- Electric Light Fittings Association
- Electrical Contractors' Association (Incorporated)
- Electrical Contractors' Association of Scotland
- Electricity Council, Generating Board and the Area Boards in England and Wales
- Electronic Engineering Association
- Engineering Equipment Users' Association
- Independent Cable Makers' Association
- Institution of Electrical Engineers*
- Ministry of Aviation
- Ministry of Labour (Factory Inspectorate)
- Ministry of Power
- Ministry of Works
- Municipal Passenger Transport Association, Incorporated
- National Inspection Council for Electrical Installation Contracting
- National Physical Laboratory (D.S.I.R.)
- Oil Companies Materials Association
- Post Office
- Public Transport Association (Incorporated)
- South of Scotland Electricity Board
- War Office

The Government department 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 standard:

- Federation of British Industries
- London Transport Executive, The British Transport Commission
- Ministry of Transport
- National Union of Manufacturers

This British Standard, having been approved by the Electrical Industry Standards Committee and endorsed by the Chairman of the Engineering Divisional Council, was published under the authority of the General Council on 28 February 1961

© BSI 11-1999

The following BSI references relate to the work on this standard:
Committee references ELE/22 and ELE/22/10
Draft for comment A(ELE) 3727

ISBN 0 580 03287 6

Amendments issued since publication

Amd. No.	Date of issue	Comments
732	May 1971	Indicated by a sideline in the margin

Contents

	Page
Co-operating organizations	Inside front cover
Foreword	ii
Section 1. General	
1 Scope	1
2 Service conditions	1
3 Definitions	1
Section 2. Ratings	
4 Rated capacitance and tolerance	1
5 Rated voltage	2
6 Rated frequency	2
Section 3. Constructional requirements	
7 Enclosures	2
8 Dimensions	2
9 Finish	3
Section 4. Terminals and connections	
10 Terminals, clearance and creepage distances	3
11 Line and earth terminals	3
12 Internal connections	3
13 Adjusting links	3
Section 5. Tests	
14 General	3
Section 6. Type tests	
15 General	3
16 Dielectric insulation resistance	4
17 Operating temperature	4
18 Capacitance — temperature characteristics	4
Section 7. Routine tests	
19 General	4
20 Capacitance	4
21 Heat test	5
22 Voltage test between terminals	5
23 Voltage test between terminals and container	5
24 Insulation resistance between capacitor terminals and container	5
Section 8. Rating plate	
25 Rating plate marking	5
Appendix A Information to be supplied by purchaser	6
Appendix B Method of measuring operating temperature	6
Table 1 — Standard capacitances	2
Table 2 — Maximum dimensions	2

Foreword

This standard makes reference to the following British Standards:

BS 205, *Glossary of terms used in electrical engineering*.

BS 442, *Terminals for electrical apparatus for railway signalling purposes*.

This British Standard has been prepared at the request of the British Transport Commission and under the authority of the Electrical Industry Standards Committee, to meet the need for a specification for both fixed and adjustable capacitors for railway signalling applications.

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 6 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.