



BR1669
April 1987

Specification for Tuning Capacitor for use in Impedance Bonds within Audio Frequency Track Circuits

British Railways Board

BRITISH RAILWAYS BOARD



SPECIFICATION NO. BR 1669

FOR

TUNING CAPACITOR FOR USE IN IMPEDANCE BONDS

WITHIN AUDIO FREQUENCY TRACK CIRCUITS

FORWARD

This specification is issued by the Director of S & T Engineering, British Rail, Materials Management Group, Room 1103, Rail House, Gresty Road, Crewe, CW2 6EA; from whom further copies may be obtained.

Technical queries shall be referred to the above address. For telephone enquiries the numbers are:-

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2333/0481L/1

1. REFERENCES

Reference in this specification is made to:-

British Railways Specification:

- 863 - Impedance Bonds for use with 50 Hz double rail track circuits and audio frequency track circuits.
- 967 - Railway Signalling Apparatus: Environmental Conditions.

British Standards:

- BS 148 - Insulating oil for transformers and switchgear.
- BS 4781 - Self Adhesive plastic labels for permanent use.

Act of Parliament:

Health and Safety at Work, etc. Act, 1974

Where this specification requires reference to British Standards, the latest issue shall apply unless specifically stated. It is the responsibility of the Manufacturer, Supplier or User to ensure that the latest issue of this specification and other relevant specifications and drawings are obtained and complied with.

For the purposes of this specification, the Engineer is the Director of Signal & Telecommunications Engineering, British Railways Board, or his appointed representative.

2. SCOPE

- 2.1 These tuning capacitor units are intended for use with impedance bonds to BR Specification 863 on lines having d.c. electric traction at 600 - 1500 volts.
- 2.2 When fitted, the capacitor unit is intended to resonate an impedance bond so that the bond presents an impedance of not less than 12 ohms to the track circuitry in which it is fitted.

3. GENERAL REQUIREMENTS

- 3.1 Each tuning capacitor unit shall comprise of one or more dry capacitors encapsulated in an electrically insulated case.
- 3.2 The capacitance of each unit shall be fixed in accordance with Appendix B.
- 3.3 Each capacitor unit shall have two substantial terminals which serve both to mount the unit and to provide electrical connection.
- 3.4 All capacitor units supplied to this specification shall be designed to have a minimum service life of 25 years.
- 3.5 Manufacturers shall ensure that the equipment complies with the relevant parts of the Health and Safety at Work Act, 1974.

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Amendments

Amnd No	Date	Text Affected