



BR 1848
NOVEMBER 1981

THE SUPPLY OF LONGITUDINAL INDUCTORS FOR RAILWAY TELECOMMUNICATIONS

British Railways Board



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AMENDMENTS

AMD. NO.	DATE	TEXT AFFECTED

**BR SPECIFICATION NO. 1848 FOR THE SUPPLY OF LONGITUDINAL INDUCTORS FOR
RAILWAY TELECOMMUNICATIONS**

Foreword

This specification supersedes all previous issues. It is issued by:-

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1. REFERENCES

Reference in this specification is made to:-

B.P.O. Specification CW.52R Unicoid Grade III AF.

2. GENERAL

This specification covers the supply of longitudinal inductors for insertion between the cable line and the equipment to improve the signal to noise ratio.

This longitudinal choke is a double wound ferite cored inductor, the two coils being identical.

The choke is inserted into the circuit in such a way that the fluxes from the two coils, due to the normal loop currents are equal, and in the opposite sense; the choke is therefore non-inductive to loop currents.

The fluxes from each coil produced by longitudinal currents are in the same sense, the choke is therefore inductive to longitudinal currents and presents a higher impedance to such currents.

3. DRAWINGS

Drawing No. T 7114 Appendix A, shows the coil connection arrangements and method to be adopted for testing.

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