

SPECIFICATION No. BR 1975 PART 1

CLAMP LOCK DISCONNECTION BOX
for use with
PRE-FORMED TERMINATED CABLEaffirmed
24/7/90.FOREWORD

This specification supersedes all previous issues and is issued by:-

British Railways Board,	BT (STD)	0270-532494
Director of S. & T. Engineering,	BT (STD)	0270-532345 FAX
Materials Management Group,	BR (ETD)	05-32494
Room 1103,	BR (ETD)	05-32345 FAX
Rail House,		
CREWE,		
Cheshire.		

CW2 6EA

from whom further copies may be obtained.

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Technical queries shall be referred to:-

The Director of S & T. Engineering
British Railways Board,
Macmillan House,
Paddington Station,
London.
W2 1FT

Telephone:- BT (STD) 01-922-6597
BR (ETD) 00-26597

REFERENCES

Reference in this specification is made to:-

British Railways Specifications

BR 10 Painting Schedule for Signal Department Equipment
BR 872 Flame Retardant Compound Insulated Cables for Railway Signalling
BR 976 Railway Signalling Apparatus Environmental Conditions
BR 1974 Multicore Railways Signalling Cables with Pre-Formed Terminations
BR 8665/20 BRB Supplier Quality Assurance Requirements

British Standards

BS 1224 Electroplated Coatings of Nickel
BS 1706 Electroplated Coatings of Zinc
BS 3382 Electroplated Coatings on Threaded Components
BS 5750 Quality Systems

British Railways Standard Drawings
BRS-SE 37 Terminal Block

Where this specification requires reference to BR Specifications/Drawings.
or British Standards, the latest issue shall apply unless specially stated.

1. SCOPE

- 1.1 This specification covers the requirements for manufacture of a Clamp Lock Disconnection Box suitable for mounting at the railway lineside and is intended for use with pre-formed terminated cables as specified in BR 1974.

2. GENERAL

- 2.1 The construction to be robust to withstand the rigours of railway lineside environment & transit handling to comply with BR 967, Cat.F.
- 2.2 Suitably designed to prevent the ingress of water and driven or drifting snow with a removeable front cover capable of being secured by a BR standard padlock.

3. CONSTRUCTION

- 3.1 The unit to consist of a rectangular baseplate grooved on three edges to accept a pre-formed sheet metal cover which can be slid into position and retained within the grooves. See Appendix A.
- 3.2 The baseplate to be made from high density moulded material of size approximately 170 mm wide by 200 mm deep.
- 3.3 A 10-way terminal block as detailed in Appendix B. to be securely mounted on the baseplate; colour identified yellow for left-hand 5-ways and black for right-hand 5-ways (may be made from two blocks).
- 3.4 Each terminal stem to be fitted with 3 off - 2 BA Nickel Plated Brass Hexagonal Thin Nuts to BS 57 together with 3 off - 2 BA Nickel Plated Brass Small Plain Washers to BS 3410.
- 3.5 Cable entry to be provided at lower edge of baseplate for two 4-core 50/0.25 cables in accordance with BR 872 Type C2 and for two 4-core 50/0.25 cables with pre-formed terminations to BR 1974.
- 3.6 Provision to be made for cables to be securely clamped.
- 3.7 The sheet metal cover must allow a minimum clearance of 25 mm between top of terminal stems and inside of cover and incorporate suitable means for padlocking using a BR standard padlock with a 6 mm diameter shackle.
- 3.8 A galvanised steel angle mounting bracket to be positioned and secured at lower rear of baseplate and incorporate two mounting holes 16 mm diameter at 127 mm centres for fixing to the clamp lock power pack.