APPENDIX 1
(referred to in paragraph 10)

Cable Construction and Mode of Manufacture

Manufacturing processes are broadly similar for most types of cable though they may differ very considerably in detail. The routing and the stage at which the main processes stop depend on the design of the cable. The main processes are described below and the process flow of manufacture is shown in the form of a chart in the following table.

The stages are:

Formation of Conductors

Conductors are formed in one of two ways:

- **WIRE**
  - **DRAWING**
  - **STRANDING**
    - **(or bunching)**

  Aluminium or copper rod is drawn into wire of appropriate diameter and continuously annealed (where necessary). It is wound on to bobbins for the next manufacturing process.

  The bobbins of wire are loaded into a stranding machine or into a bunching machine and the appropriate number of wires are twisted together to form a complete conductor in either circular or sectoral form. The conductor is wound on the drums for further insulation or occasionally for direct sale.

- **EXTRUSION**
  - **OF SOLID CONDUCTORS**

  By extrusion of solid aluminium billets into solid circular or sectoral shapes of appropriate size. (Solid conductors may also be produced by continuous casting processes.)

Insulation of Conductors

Insulation may be either of paper or of plastic (PVC) or polythene or cross-linked polythene or rubber (natural or synthetic) compounds according to the technical requirements of the usage, the ease of installation of the cables, or the wishes of the customer.

- **PAPER INSULATION**
  - **Paper slitting**

  This is a preparatory process to slit full width (1 metre) rolls into the narrow widths required for application to the conductor in the next process. (The paper is specially produced from selected wood pulp to impart the necessary mechanical and electrical properties.)

  For paper insulated cables the requisite number of papers is applied to the conductor in a lapping machine with control of gap spaces and tensions to produce a satisfactory dielectric.

  Insulations other than paper are applied to the conductor by 'extrusion' to the appropriate thickness coupled in some cases with a vulcanisation process.

  The insulated core would be wound on to process or delivery drums as appropriate.
Laying-up of Conductors

**LAYING**

**UP**

**and**

**CORE BINDING**

**or**

**CORE INSULATION**

The individual cores are where necessary assembled together to form a twin, 3 or 4 core cable in a laying-up machine, made circular with appropriate longitudinal fillings, and further insulation is applied or a binder provided. The assembled cable is then wound on to a drum or coiled into an annular cable for the next process.

Impregnation and Sheathing (*paper cables only*)

**IMPREGNATION**

The drums or trays are loaded into a pressure vessel forming part of a complete closed circuit impregnating plant where it is subjected to a drying treatment under heat and vacuum followed by impregnation under pressure and a controlled cooling cycle. The impregnation compound is either mineral oil or a blend of micro-crystalline wax and mineral oil etc. having non-migratory characteristics at normal cable operating temperatures.

**and either**

**LEAD SHEATHING**

After impregnation the cable is provided with a lead sheath to protect the insulated core against the ingress of moisture. The lead sheathed cable is coiled on to a drum for delivery or further manufacture.

**ALUMINIUM SHEATHING**

In certain constructions, for Area Boards only, aluminium sheathing is provided in either smooth or corrugated form. This sheath may act also as the neutral conductor in low-voltage cables, as well as to exclude moisture.

Protection and Finish of Cables

**ARMOURING**

For paper insulated cables this may consist of steel tapes or galvanised steel wires applied over a bedding of impregnated textile materials with bituminous compound. The armour may be left bare or protected with additional layers of textile materials and compound.

For PVC or elastomeric insulated mains cables armouring (if required) is applied directly. Steel wires or aluminium strips may be used.

**OVER SHEATHING OF PLASTIC**

This is used on all PVC and elastomeric mains cables, aluminium sheathed cables and on paper insulated lead sheathed and/or armoured cables where required.

**TESTING & INSPECTION**

Before despatch every drum of cable is subjected to electrical tests and examined for correctness of construction and dimensions and in the presence of customer’s representatives where this is required.

**PREPARATION FOR DESPATCH**

The cable ends are trimmed, adequately sealed and protected. The drums receive their outer lagging and are appropriately marked and labelled.
APPENDIX 1

Process Flow of Manufacture

Paper insulated cable

Wire drawing & conductor stranding

Solid rod (circular or sector shaped) extrusion

Rubber, PVC or elastomeric insulated cable

Paper slitting

Conductor insulation

Laying up (with belt insulation or binder)

Armouring with textile bedding and serving

or

without serving

Impregnation

Lead sheathing

Aluminium sheathing

Armouring or neutral application

Rubber, PVC or elastomeric sheathing

Plastic or elastomeric over sheathing

Mains cable

Testing & Inspection

Preparation for despatch

Multicore ring cable single

133
APPENDIX 2
(referred to in paragraph 18)

Views of Users and Minor Manufacturers

1. At the outset of our inquiry we sought evidence from all the electricity authorities in the United Kingdom, from the Post Office, the National Coal Board and other nationalised industries, from Government departments, a number of local and health authorities, electrical contractors, electrical whole-salers and manufacturers of a wide variety of products (from generators to ships and from lawn-mowers to motor cars) in which reference goods are used. We also sought the views of the smaller manufacturers of reference goods, some of whom were included in the group of persons in whose favour we provisionally concluded that a monopoly situation existed. We wrote altogether to some 400 companies or other bodies and received evidence, including oral evidence, from 135 users some of whom replied on behalf of more than one body, for example the Electricity Council on behalf of all Area Electricity Boards in England and Wales. Apart from a few complaints and an equal number of favourable comments made specifically about BICC, most of the comments and complaints were made about the industry as a whole. Some comments were made about a particular category of cable but most were expressed in general terms. Some of the complaints received related to the circumstances of the industry at the time the reference was made, for example, increases in copper prices and cable shortages due to shortages of PVC and the effect of the 3-day week (see paragraphs 288 and 300–302).

2. The views of the CEGB, the various other United Kingdom electricity authorities and the Post Office, about the supply respectively of supertension, mains and telecommunications cables, of which they are the dominant purchasers, are described in the relevant paragraphs of Chapters 5 and 8. In this appendix we summarise the views of other users under the different headings on which we sought their comments. We also summarise the views of smaller manufacturers insofar as these relate to the activities, or the effects of the activities, of BICC and their other larger competitors.

USERS

Prices

3. Most users found the general level of prices reasonable in the light of recent increases in copper prices and the British Railways Board said that, excluding the effect of copper, prices for major contracts over the two or three years prior to 1974 had reduced. There were, however, complaints from three manufacturers of electrical products, five local authorities or local authority associations or consortia and one trade association that, whereas cable prices rose quickly when there was an increase in the price of copper, they fell only very slowly, if at all, when copper prices were reduced. One trade association complained that BICC’s prices for mineral insulated cable continued at a relatively higher level after the prices for other types of general wiring cable had begun to

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1 Paragraphs 256 (mains cable), 269–270 (supertension cable) and 368 (telecommunication cable).
fall. Several manufacturers of electrical goods commented that United Kingdom prices compared favourably with those charged overseas, but one found Spanish and another Italian and Dutch prices competitive.

4. There were a variety of comments on the existence of parallel pricing or identical tendering in the industry. Many users commented on the similarity of list prices for general wiring cables and winding wires, but some of these also mentioned competition in discounts. Tender prices were variously described as showing marked similarity and differing considerably. Some users, including the National Coal Board (NCB), said that identical tendering had died away in recent years, before the start of our inquiry, and a very large industrial user commented that, although until the introduction of prices legislation gross prices were generally similar, there was enough variation in net prices to cause the company to change its buying pattern and negotiate terms with manufacturers.

Competition

5. Competition was generally described as ample, considerable or adequate, but three manufacturers of electrical products and five local authorities or local authority associations/consortia considered it limited or even non-existent. Three of these complaints, however, related to specialised cable types and one to shortages of supplies. Except for some specialised cable types, most users considered that there was an adequate number of potential suppliers (though one of the complainants referred to above thought five or six manufacturers inadequate). Two local authority associations commented on the lack of competition in the supply of mineral insulated cable, made in the United Kingdom only by BICC, and a local authority drew our attention to the intention expressed by BICC at the time of the BICC/Pyrotenax merger inquiry (see paragraph 105) that competition between Pyrotenax and BICC's Mineral Insulated Cables Division should continue. The complainant considered that the creation of BICC Pyrotenax Ltd (see paragraph 105) had effectively put an end to such competition. As well as competition in discounts, rebates and special prices for particular enquiries there was said to be competition also in delivery dates. Some manufacturers of electrical products commented that competition was limited by their own very high standards which not all cablemakers could meet. The NCB said that so far as their rather specialised requirements were concerned there was competition between cablemakers.

Quality

6. There were no complaints about quality which was described by many users in glowing terms.

Conditions of sale

7. Some large customers, including the NCB and British Railways Board, are able to impose their own conditions of purchase on cable manufacturers. Among the other cable purchasers the majority were satisfied with the cablemakers' conditions. A trade association and two local authority associations complained about the 25 per cent surcharge made for short lengths of cable and another trade association complained about the standard surcharge made on small orders for winding wires and strips and about what it described as non-realistic minimum ordering levels for cables. The association commented that the minimum weight
surcharge was payable on any repairing job and so resulted in increased costs for the repair trade. Two manufacturers of electrical products complained that the price paid for general wiring cable was the price ruling at date of despatch not date of order and one of these and an electrical contractor drew attention to the difficulty this caused them in fulfilling fixed price contracts.

Special terms: discounts and rebates

8. Some of the large users commented that they received high rates of discount and rebate. A manufacturer of electrical products complained of the manufacturers' reluctance to grant rebates on winding wires even to large purchasers and commented that smaller purchasers presumably had no opportunity of improving on list price. The level of discounts to electrical wholesalers attracted some criticism. Two electrical installation contractors commented that they could sometimes get better terms from wholesalers than from cable manufacturers, and a small wholesaler complained that some wholesalers received higher discounts than others and that contractors were able to buy cable more cheaply than some wholesalers. A local authority complained that only one cable manufacturer had offered a preferential discount to electrical contractors buying direct from the manufacturer rather than a wholesaler. A trade association said that a constant 5 per cent discount appeared to be available to all contractors irrespective of their purchasing power and was therefore meaningless.

Standards of service

9. Seven users complained of delivery delays and two about inadequate stockholding. Otherwise there were no complaints about service. BICC's standards of service were praised by a number of users.

SMALLER MANUFACTURERS

10. We asked smaller manufacturers for details of any difficulties they had experienced which in their view were caused through the activities of one or more of the major companies in the industry. The majority of the smaller manufacturers had experienced no difficulties or only those associated with a competitive market in which they were competing with the industry giants. Two of them had only recently entered the industry and neither had experienced any difficulty in doing so. Two smaller manufacturers of winding wires referred to the acquisition by the GEC Group of, and the consequent transfer of GEC business to, AEI's winding wire subsidiaries although one said that it had subsequently obtained business from other GEC companies. A medium sized manufacturer complained that the escalation of discounts and rebates given to wholesalers by BICC, and followed by the other three major manufacturers, had resulted in some wholesalers being able to undercut smaller manufacturers' prices.
Appendix 3
(referred to in paragraphs 23 and 29)

Principal Acquisitions of the Four Major Manufacturers 1955-1977

<table>
<thead>
<tr>
<th>Year</th>
<th>BICC</th>
<th>DELTA</th>
<th>Pirelli General</th>
<th>AEI</th>
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</thead>
<tbody>
<tr>
<td>1955</td>
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<td>1958</td>
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<tr>
<td>1959</td>
<td>BICC acquired Telegraph Construction &amp; Maintenance Co Ltd and with it a 50 per cent share in Submarine Cables Ltd.</td>
<td>Enfield Rolling Mills Ltd (ERM) acquired Enfield Cables Ltd.</td>
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<td>1960</td>
<td>BICC acquired Bessbrook Products Ltd.</td>
<td>The cable interests of Enfield Cables Ltd and the non-telephone cables interest of STC merged to form Enfield-Standard Power Cables Limited—jointly owned.</td>
<td></td>
<td>AEI Ltd (AEI) acquired (85 per cent) balance of Siemens Bros &amp; Co Ltd. AEI acquired Henleys Telegraph Works Ltd. AEI acquired the London Electric Wire Co &amp; Smiths Ltd and Liverpool Electric Cable Co Ltd. AEI sold its interests in Connolly's and St Helens to BICC.</td>
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<td>1961</td>
<td>BICC acquired Long Eaton Cable Co Ltd and Armorduct Cable Co Ltd.</td>
<td>ESPC acquired the business and certain of the assets of Mersey Cable Works Ltd, a subsidiary of Tube Investments Ltd (TI). TI allotted 12 per cent minority share of ESPC.</td>
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<td>1962</td>
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<td>Pirelli General's parent company Pirelli acquired most of GEC's holding in Pirelli General (PG). PG/GEC trading agreement ceased to exist.</td>
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<td>1963</td>
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<td>Delta Metal Co Ltd acquired ERM. ERM set up Enfield Phelps Dodge Jointly with Phelps Dodge Corporation (US).</td>
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</tbody>
</table>
Year | **BICC** | **DELTA** | **PIRELLI GENERAL** | **AEI**
--- | --- | --- | --- | ---
1966 | BICC acquired Pyrotenax Ltd. BICC sold its interests in Submarine Cables Ltd to AEI. |  |  | AEI acquired BICC's interests in Submarine Cables Ltd. 
1967 |  |  |  | AEI acquired Hackbridge Holdings Ltd. GEC acquired AEI. AEI Cables Ltd formed. 
1968 | BICC acquired Fine Wires Ltd and F McNell Holdings Ltd (parent of Britannic General Cables Ltd). | ESPC ceased manufacture of supertension cables and took a 25% per cent interest in Pirelli Enfield Supertension Cables Ltd, 74% per cent owned by Pirelli General. | Pirelli General's Swiss parent (SIP) acquired GEC's last remaining 5 per cent holding in Pirelli General. Pirelli Enfield Supertension Cables Ltd (Pirelli Enfield) formed by PG and ESPC. | AEI Cables sold to BICC its supertension cable manufacturing business. AEI acquired the total holdings in FD Sims Limited. 
1969 | BICC acquired AEI supertension cabling facilities. BICC acquired Reliance-Clifton Cables Ltd. |  | Submarine Cables Ltd sold to STC. |  
1971 |  | Delta Metal acquired Aerialite Ltd. |  |  
1973 | BICC acquired Plessey Ltd manufacturing facilities for switchboard cables and cords. | Delta Metal acquired Aerialite Ltd. |  |  
1974 |  | ESPC and Aerialite cabling activities merged in Delta Enfield Cables Ltd. |  |  
1977 |  | Pirelli General acquired Delta's 25% per cent shareholding in Pirelli Enfield. |  |  

Additional note: The year 1977 is out of sequence and should likely be 1976.
**APPENDIX 4**
*(referred to in paragraph 31)*

**Associations of Cablemakers**

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<tr>
<th>Membership</th>
<th>ECNC</th>
<th>CMA</th>
<th>STCG</th>
<th>MCG</th>
<th>GWGC</th>
<th>TCMA</th>
<th>HTCMA</th>
<th>SCA</th>
<th>CCA</th>
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<td>Aberdare Cables Ltd [Pirelli General]</td>
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<td>Aluminium Wire &amp; Cable Co Ltd</td>
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<td>AEI Cables Ltd [AEI]</td>
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<td>British Driver-Harris Co Ltd</td>
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<td>BICC Ltd [BICC]</td>
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<td>BICC Connollys Ltd [BICC]</td>
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<td>Cables and Plastics Ltd</td>
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<td>Communication &amp; Control Engineering Co Ltd</td>
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<td>The Concordia Electric Wire &amp; Cable Co Ltd</td>
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<td>Crompton Parkinson Ltd</td>
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<td>J Day &amp; Co (Derby Works) Ltd</td>
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<td>Delta Enfield Cables Ltd [Delta] (formerly Enfield Standard Power Cables Ltd)</td>
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<td>Delta Enfield Cables (Holdings) Ltd [Delta]</td>
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<td>Duratube &amp; Wire Ltd</td>
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<td>Enfield Rolling Mills Ltd [Delta]</td>
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<td>Greengate Cables Ltd</td>
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<td>Johnson &amp; Phillips Ltd [Delta]</td>
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<td>Kent Electric Wire Ltd [AEI]</td>
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<td>The London Electric Wire Company and Smiths Ltd [AEI]</td>
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<td>Pirelli General Cable Works Ltd [Pirelli General]</td>
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<td>Reliance Cords &amp; Cables Ltd [BICC]</td>
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<td>Saxonia Electrical Wire Co Ltd [Delta]</td>
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<td>Standard Telephones &amp; Cables Ltd (Submarine Systems Division)</td>
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<td>Sterling Cable Co Ltd</td>
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<td>Telephone Cables Ltd [AEI]</td>
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<td>Thames Wire &amp; Cable Company Ltd</td>
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<td>Wandleside Cables Ltd [Delta]</td>
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<td>Ward &amp; Goldstone Ltd (including Volex Electrical Products Ltd)</td>
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</table>

1 Abbreviations are given in paragraph 30.

139
# APPENDIX 6
(referred to in paragraph 44)

## BICC Acquisitions and Other Changes 1945-77

| Company                  | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 |
|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Craigpark                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Metropolitan            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| St Helens               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| W T Glover              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| BICC                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Connollys               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Scottish                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bessbrook               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pyrotenax               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Fine Wires              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Reliance                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| AEI — Supertension      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Plessey—Beeston         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Telcon                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Long Eaton              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Armorduct               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Wm Geipel               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Britannic               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**KEY**
- Manufacturing company.
- Manufacture transferred to another Group Company.
- British Insulated Calender's Cables Ltd and its subsidiary companies manufacturing reference goods in UK in 1945.
APPENDIX 7
(referred to in paragraphs 105 and 110)

British Insulated Callender’s Cables Ltd and Pyrotenax Ltd
A Report on the Proposed Merger (see Appendix 5)

Assurances given to the Monopolies Commission by
British Insulated Callender’s Cables Ltd

(a) That the future commercial development (including the necessary
research) and exploitation of mineral insulated cable in the United
Kingdom and overseas will not be hampered by other BICC interests;

(b) that the cost reductions achieved as a result of the merger will be used to
promote the use of and expand the sale of mineral insulated cable and to
reduce net selling prices to customers (or to avoid increases that would
otherwise have been necessary);

(c) that BICC will continue to supply wholesale distributors with mineral
insulated cable on normal commercial terms;

(d) that BICC will continue to supply other cabledistributors with mineral
insulated cable, and will do so at prices and on terms, and with service
and continuity of supply, which will make it commercially practicable for
them to participate in sales of mineral insulated cable;

(e) that BICC will not give its own electrical contracting organisation more
favourable prices, terms, service or continuity of supply for mineral
insulated cable than it gives to other comparable electrical contractors;

(f) that BICC will not offer specially favourable prices or terms for mineral
insulated cable to customers for the purpose of winning business in other
types of cable;

(g) that BICC will not offer uneconomic prices or terms for mineral insu-
lated cable to customers calculated to drive competitors out of the business
of supplying mineral insulated cable;

(h) that BICC will publish its list prices and will make available to each
category of customer its terms for mineral insulated cable appropriate
to that category;

(i) that, if at any time the Board of Trade should so request, BICC will grant
licences under any patents relating to mineral insulated cable, including
accessories, on reasonable terms.

1 The word ‘terms’ here includes terms and conditions as to discounts, rebates and credit.

142
APPENDIX 8
(referred to in paragraph 135)

GEC: Organisation

THE GENERAL ELECTRIC COMPANY LIMITED

GEC TELECOMMUNICATIONS LIMITED

ASSOCIATED ELECTRICAL INDUSTRIES LIMITED

OTHER SUBSIDIARY COMPANIES

THE LONDON ELECTRIC WIRE COMPANY AND SMITHS LIMITED

FREDERICK SMITH & COMPANY

VACTITE LIMITED

F D SIMS LIMITED

KENT ELECTRIC WIRE LIMITED

LONDON ELECTRIC WIRE CO

AEI CABLES LIMITED

TELEPHONE CABLES LIMITED

OTHER SUBSIDIARY COMPANIES

Delta Enfield

74.5% AEI

June 1978
APPENDIX 9
(referred to in paragraph 164)

Delta Metal Group and Cables Division Organisation

Delta Metal Group
The Delta Metal Co Ltd

Delta Group
Divisions

Delta Cables
Division
Organisation

Trading
Companies
- Companies
making reference products in heavier type

Delta Enfield Cables (Scotland) Limited
Power Cables Division
Delta Enfield Cables Ltd
Plastic Cables Division
Wandleseide Cables Ltd
Rubber Cables Division
Special Cables Division
Delta Enfield Wandleside The Saxonia Nevill Enfield Cables Ltd Electrical Winding Wire Co Ltd & Co Ltd Building Products Division ERM Division Wire Mill Division Special Cables Division Ecological Components Division Overas Division Delta Metal Co Ltd

Wire Mill Division
Special Cables Division
Power Cables Division
Plastic Cables Division
Wire Mill Division
Building Products Division
ERM Division
Delta Metal Group

Trading Companies
- Companies making reference products in heavier type

Delta Cables Division
Organisation

Delta Group
Divisions
Position of Pirelli General Cable Works Ltd within the Pirelli-Dunlop Union

SOCIÉTÉ INTERNATIONALE PIRELLI S.A.
(publicly quoted Swiss company)

PIRELLI S.p.A.
(publicly quoted Italian company)

DUNLOP HOLDINGS LIMITED
(publicly quoted British company)

PIRELLI GENERAL CABLE WORKS LIMITED

100%

Pirelli Enfield Supertension Cables Ltd

100%

Aberdare Cables Limited

Pirelli General Cables (South Africa) (Pty) Limited

50%

Pirelli Cable Systems Inc

100%

Pirelli Construction Company Limited

100%

Industrie Pirelli S.p.A.
(Italian operating company)

50%
APPENDIX 11
(referred to in paragraphs 299, 301 and 302)

List prices, copper prices, and actual prices

1. The chart in this appendix shows changes in BICC's list price (£'s per 1,000 metres) for 2-5 sq mm cable No 6242Y between January 1970 and December 1977, together with:
   (i) fluctuations in the average monthly London Metal Exchange (LME) price of copper over the same period;
   (ii) changes in the wholesale price index for electrical engineering over the same period (January 1970 = 100);
   (iii) the lowest actual price of the cable less the value of its copper content on 1 January 1970 and on four subsequent dates inserted as bars.

2. The value of the copper content of 1,000 metres of 2-5 sq mm cable No 6242Y on 1 January 1970 was just under £40 when the price of copper on the London Metal Exchange was £678 per tonne. This fact has been used to provide a starting point for the copper price line which therefore indicates changes in the current value of the copper content of the cable relative to its list price. The bars show estimates of the lowest actual prices of this cable sold on the dates selected less the value of the copper as priced by the cablemaker supplying the estimates¹, that is to say they show his lowest 'net net' 'hollow' price². The lowest 'net net' price on 1 January 1970 was not the same for all cablemakers and, to our knowledge, varied between about £71 and about £73. As the value of the copper content of the cable on that date was about £40, the lowest 'net net' 'hollow' price of the cable lay between about £31 and £33 per 1,000 metres. £32, the intermediate figure, is used as the starting point for the wholesale price index based on 1970=100. In effect the bars compare changes in one cablemaker's lowest 'net net' 'hollow' price with changes in this index. If this cablemaker had calculated the 'net net' 'hollow' price by reference to the current average monthly price of copper it would have been lower by about £5 in June 1973 and March 1976, but higher by about £16 in September 1974 and by about £9 in August 1977.

¹ As his method of accounting for the cost of the copper content in the cable prices, the copper sometimes at a lower and sometimes at a higher level than that which would be indicated by the average monthly price, his actual (copper inclusive) price for the cable cannot be calculated precisely from the chart.
² The 'net net' price is the actual price of the cable after deduction of discount and rebate. The lowest 'net net' price is the lowest actual price at which a cablemaker sells the cable, involving the highest combined rate of discount plus rebate off list price. The 'hollow' price is the price of the cable less the value of its metal (in this case, copper) content.
APPENDIX 11—contd.

Changes in BICC's list prices

COPPER

£s per

CABLE

£s per

1000 metres

NOTES

(1) Copper — average monthly London Metal Exchange price.

(2) Cable — BICC list price for 2.5 sq mm 6242Y.

(3) Wholesale Price Index for Electrical Engineering as published by HMSO using January 1970 as a base of 100.

(4) 'Hollow' Price of Cable 6242Y (2.5 sq mm)
APPENDIX 12
(referred to in paragraph 396)

Export Association Working Instructions

Section I—Cables

DEFINITION

Conductors:
Non-flexible conductors of copper, aluminium or other metal (see Exclusion (a)).

Voltage:
Exceeding 80 volts up to and including 22,000 volts.

Specifications:
All cables having an outer protection formed by a sheath or a combination of sheaths of lead, aluminium, plastic, rubber, elastomers, textile or other material in substitution thereof with or without protection over the sheath.

<table>
<thead>
<tr>
<th>Insulation</th>
<th>Voltage</th>
<th>Cores</th>
<th>Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impregnated paper or varnished cambric</td>
<td>All voltages</td>
<td>Any number of cores</td>
<td>All sizes</td>
</tr>
<tr>
<td>Rubber, elastomers or plastics</td>
<td>Up to and including 1100 V</td>
<td>One to 7 core</td>
<td>50 sq mm and above</td>
</tr>
<tr>
<td>Rubber, elastomers or plastics</td>
<td>Up to and including 1100 V</td>
<td>8 core and above</td>
<td>All sizes</td>
</tr>
<tr>
<td>Rubber, elastomers or plastics</td>
<td>Above 1100 V</td>
<td>Any number of cores</td>
<td>All sizes</td>
</tr>
</tbody>
</table>

NOTE: The term 'elastomers' covers all forms of synthetic rubber.

Exclusions
The following are excluded:

(a) All cables and wires with flexible conductors.
A non-flexible conductor is a conductor corresponding to class 1, class 2 or class 3 of the IEC Recommendation 228.
When the class of the conductor is not specified the definition should be:
A non-flexible conductor is one composed of wires exceeding 0.35 mm in diameter for up to 7-strand conductors and exceeding 0.51 mm in diameter for other conductors, but excluding bundled conductors.

(b) All signalling cables for use at over 80 volts provided the construction is:
(i) Single strand conductors.
(ii) Insulation thickness not exceeding 0.6 mm.
(iii) Pair of quad formation.
(iv) With a specified mutual capacitance and/or capacitance unbalance.

(c) Long distance power submarine cables including underwater cables laid under estuaries, lakes and the like normally manufactured and supplied in long continuous lengths and not transportable on normal cable drums.
Export Association Working Instructions

Section II—Cables

**DEFINITION**

**Conductors:**
Flexible or non-flexible conductors of copper, aluminium or other metal.

A non-flexible conductor is a conductor corresponding to class 1, class 2 or class 3 of the IEC Recommendation 228.

When the class of the conductor is not specified the definition should be:

A non-flexible conductor is one composed of wires exceeding 0.35 mm in diameter for up to 7-strand conductors and exceeding 0.51 mm in diameter for other conductors, but excluding bundled conductors.

**Specification:**

All wires, cables and flexible cords, insulated with rubber, elastomeric or plastic compounds or any combination of such materials.

**NOTE:** The term 'elastomeric' covers all forms of synthetic rubber.

**Exclusions**

1 **TYPE:** All cables having an outer protection formed by a sheath or a combination of sheaths of lead, aluminium, plastic, rubber, elastomers, textile or other material in substitution thereof with or without protection over the sheath.

<table>
<thead>
<tr>
<th>Insulation</th>
<th>Voltage</th>
<th>Cores</th>
<th>Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rubber, elastomers or plastics</td>
<td>Up to and including 1100V</td>
<td>One to 7 core</td>
<td>50 sq mm and above</td>
</tr>
<tr>
<td>Rubber, elastomers or plastics</td>
<td>Up to and including 1100V</td>
<td>8 cores and above</td>
<td>All sizes</td>
</tr>
<tr>
<td>Rubber, elastomers or plastics</td>
<td>Above 1100V</td>
<td>All number of cores</td>
<td>All sizes</td>
</tr>
</tbody>
</table>

2 Wires, cables and flexible cords supplied directly to British Government Departments.

3 Wires, cables and flexible cords to British Government Department specifications.

4 All electric wires and cables insulated with mineral powder or asbestos paper, and metal sheathed.

5 Aircraft pattern cables.

6 Admiralty pattern cables.

7 High frequency cables.

8 Radio relay cables.

9 Telephone cables.

10 Telephone and bell wires.

11 Field telegraph and telephone cables, formerly known as 'D Type'.

12 Shot firing cables.

13 Automobile lighting and ignition cables.

14 PVC or PCP covered overhead wires.

15 Thermocouple extension and compensating cables.

16 Heating cables with conductors or resistance wires.

17 Wires, cables and flexible cords having fluorocarbon insulation.

18 Flexible cords sold direct to manufacturers of portable electric appliances.

19 Cables sold by one member to another except when resold by the purchasing member.

20 Flexible cords insulated (but not sheathed) having a radial thickness of insulation of 20 mils or less.

21 Connecting wires for internal wiring of radio and television sets or electronic equipment.
APPENDIX 14

[Details omitted. See note on page iv.]
Definition of Goods Covered by ICDC Export Schemes

The wires and cables covered by this definition are destined for the transmission of electric power in all its forms.

A. They are divided into the following three categories:

1st category
(a) Nominal pressure: over 80 up to and including 80,000 volts
(b) Insulation: Impregnated paper or varnished cambric

2nd category
(a) Nominal pressure: over 1,100 up to and including 80,000 volts
(b) Insulation: plastic, rubber or elastomers (ii)

3rd category
(a) Nominal pressure: over 80 up to and including 1,100 volts
(b) Insulation: plastic, rubber or elastomers (ii)

3.1 Cables with 8 cores or more
3.2 Cables with 1 to 7 cores: with a conductor section of 50 mm² or above

B. They have the following characteristics in common:

(a) Non-flexible conductors (i) of copper, aluminium or other metal.
(b) Outer protection formed by a sheath or a combination of sheaths, lead aluminium, plastic, rubber, elastomers (ii) textile or other materials in substitution thereof.
(c) With or without protection over the sheath.

C. The following are excluded:

1. All signalling cables for use at over 80 volts, provided the construction is:
   (i) solid conductors;
   (ii) insulation thickness not exceeding 0.6 mm;
   (iii) pair or quad formation;
   (iv) with a specified mutual capacitance and/or capacitance unbalance.

2. Long distance power submarine cables including underwater cables laid under estuaries, lakes and the like, normally manufactured and supplied in long continuous lengths and not transportable on normal cable drums.

NOTES
(i) A non-flexible conductor is a conductor corresponding to class 1, class 2 or class 3 of the IEC Recommendation 228.

When the class of the conductor is not specified, the definition should be:
A non-flexible conductor is one composed of wires exceeding 0.35 mm in diameter for up to 7-strand conductors, and exceeding 0.51 mm in diameter for other conductors, but excluding bundled conductors.

(ii) The term 'elastomers' covers all forms of synthetic rubber, including butyl, neoprene, etc.
APPENDIX 16
(referred to in paragraph 415)

Trade coverage of international associations

1. There are considerable problems in comparing different countries' trade statistics for insulated wires and cables. Commodity definitions can vary widely and there are a variety of different types of cable classification in the published statistics of the main cable trading countries. Consequently an attempt to compare different countries' trade statistics for insulated wires and cables usually involves some specific assumptions about how certain types of insulated wire and cable have been defined and classified. These problems restrict the type of comparisons which can be made from the published trade statistics from each country.

2. There are, however, several international sources of trade statistics on cables where the relevant figures are provided on a comparable basis. The main source of published trade statistics which permit international comparisons is the Organisation for Economic Co-operation and Development (OECD), in the Series 'C' or Statistics of Foreign Trade. These trade statistics are collected from a large number of countries who report the relevant trade figures to the OECD. Whilst these figures provide one of the most comprehensive statistical pictures of international cable trade currently available, there are still some limitations. In particular, the published statistics do not show separately different categories of insulated electric wire and cable. Moreover, there are some important cable producing countries who do not report their trade statistics to the OECD. Principal amongst the non-reporting countries is the USSR, but the figures provide only a partial coverage of other East European countries. Reporting countries include all EEC countries, Canada, United States, Japan, Australia, New Zealand, Austria, Finland, Greece, Iceland, Norway, Portugal, Spain, Sweden, Switzerland, Turkey and Yugoslavia.

3. The following table shows the proportion of total OECD-insulated wire and cable exports to non-producer countries\(^1\) from countries with an ICDC national group membership:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ICDC 'member' countries</td>
<td>0.82</td>
<td>0.81</td>
<td>0.78</td>
<td>0.80</td>
<td>0.79</td>
<td>0.78</td>
</tr>
<tr>
<td>ICDC 'non-member' countries</td>
<td>0.18</td>
<td>0.19</td>
<td>0.22</td>
<td>0.20</td>
<td>0.21</td>
<td>0.22</td>
</tr>
</tbody>
</table>

Source: OECD Trade Statistics. Series C.

The figure for 1975 includes exports from Japan and Greece which withdrew from ICDC during 1975. If Japanese and Greek exports are excluded, the figures for 1975 become 0.67 and 0.33 respectively. The three largest cable exporting countries outside ICDC are the United States, Canada and Australia.

4. The table in the preceding paragraph includes all cable categories. This means that the proportion of mains cable exported by ICDC national group countries cannot reliably be derived from it, nor can reliable conclusions be drawn on the proportions of supertension cable and telecommunication cable

\(^1\) Defined here as countries other than OECD reporting countries in 1975.
exported by national group countries of STEA and ICTDA. These proportions are over-estimates to the extent that the associations' national groups exclude certain cablemakers of the national group countries.

5. The following table indicates the importance of exports to non-producer countries\(^1\) as a proportion of total OECD cable exports and ICDC 'member' countries' exports\(^2\):

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>0.56</td>
<td>0.59</td>
<td>0.60</td>
<td>0.55</td>
<td>0.58</td>
<td>0.69</td>
</tr>
<tr>
<td>b)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(i)</td>
<td>0.82</td>
<td>0.81</td>
<td>0.78</td>
<td>0.80</td>
<td>0.79</td>
<td>0.78</td>
</tr>
<tr>
<td>(ii)</td>
<td>0.18</td>
<td>0.19</td>
<td>0.22</td>
<td>0.20</td>
<td>0.21</td>
<td>0.22</td>
</tr>
<tr>
<td>Total</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>c)</td>
<td>0.46</td>
<td>0.48</td>
<td>0.47</td>
<td>0.44</td>
<td>0.46</td>
<td>0.54</td>
</tr>
</tbody>
</table>

Source: OECD Trade Statistics. Series C.

6. If the Japanese figures are taken out of the ICDC figures for 1975, exports by ICDC ‘member’ countries to non-producer countries as a proportion of total OECD trade in wires and cables would be 47 per cent rather than the 54 per cent specified in the above table.

---

1 Defined here as countries other than OECD reporting countries in 1975.
2 Cable exports by the Netherlands are excluded throughout because these are not classified by country of destination.
APPENDIX 17
(referred to in paragraphs 435 and 521)

Analysis of United Kingdom imports of cable

1. The following table shows that imports of cables into the United Kingdom as a proportion of the total domestic market for cables have tended to grow, but that the proportion of imports remains small. The domestic market has been defined as the total value of United Kingdom cable sales, minus cable exports, plus cable imports. The gaps in this series occur in those years for which Census of Production statistics are not available:

<table>
<thead>
<tr>
<th>Year</th>
<th>CIF value £ million</th>
<th>Per cent of total UK market</th>
</tr>
</thead>
<tbody>
<tr>
<td>1964</td>
<td>1.7</td>
<td>—</td>
</tr>
<tr>
<td>1965</td>
<td>1.7</td>
<td>—</td>
</tr>
<tr>
<td>1966</td>
<td>2.2</td>
<td>—</td>
</tr>
<tr>
<td>1967</td>
<td>2.8</td>
<td>—</td>
</tr>
<tr>
<td>1968</td>
<td>3.8</td>
<td>1.6</td>
</tr>
<tr>
<td>1969</td>
<td>5.8</td>
<td>—</td>
</tr>
<tr>
<td>1970</td>
<td>6.3</td>
<td>—</td>
</tr>
<tr>
<td>1971</td>
<td>6.9</td>
<td>—</td>
</tr>
<tr>
<td>1972</td>
<td>10.3</td>
<td>—</td>
</tr>
<tr>
<td>1973</td>
<td>14.1</td>
<td>4.5</td>
</tr>
<tr>
<td>1974</td>
<td>18.8</td>
<td>4.8</td>
</tr>
<tr>
<td>1975</td>
<td>18.5</td>
<td>5.3</td>
</tr>
<tr>
<td>1976</td>
<td>23.9</td>
<td>6.3</td>
</tr>
<tr>
<td>1977</td>
<td>29.7</td>
<td>6.9</td>
</tr>
</tbody>
</table>

Source: UK Census of Production
UK Overseas Trade Statistics

2. The following table shows United Kingdom imports by type of cable. It suggests that a high proportion of cable imports are for specialist uses or are associated with local manufacture of electrical appliances by foreign companies in the United Kingdom:

<table>
<thead>
<tr>
<th>Type of cable</th>
<th>£ million</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submarine telephone cable</td>
<td>0.606</td>
</tr>
<tr>
<td>Other telephone cable</td>
<td>1.100</td>
</tr>
<tr>
<td>Mains power cable</td>
<td>1.179</td>
</tr>
<tr>
<td>General wiring cable</td>
<td>1.661</td>
</tr>
<tr>
<td>Appliance wires</td>
<td>8.019</td>
</tr>
<tr>
<td>Winding wires</td>
<td>2.601</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>8.747</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>23.913</strong></td>
</tr>
</tbody>
</table>

Source: Business Monitor PQ 362, 1976
3. The following table shows the value of United Kingdom cable imports, expressed as a percentage of total cable imports classified by country of origin. Cable imports from Canada and the USA have fallen in per cent share terms over the period 1972 to 1977, whilst EEC countries have increased their share of total United Kingdom cable imports from 38 per cent in 1972 to 48 per cent in 1977.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada and USA</td>
<td>40.7</td>
<td>38.6</td>
<td>35.2</td>
<td>31.8</td>
<td>30.8</td>
<td>31.0</td>
</tr>
<tr>
<td>West Germany</td>
<td>11.5</td>
<td>14.1</td>
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Source: Annual Overseas Trade Statistics of UK, Department of Trade.
Index

AEI see Associated Electrical Industries Ltd
AEI Cables Ltd, 133
Aluminium Wire & Cable Co Ltd
sales: insulated electric wires and cables, 240–241
Area Boards see Area Electricity Boards
Area Electricity Boards
discounts: on mains cable by BICC Ltd, 72
relations with cable manufacturers, 256–260
stockholding: on mains cable by BICC Ltd, 78–80
Associated Electrical Industries Ltd
acquisitions, Appendix 3
discounts: general wiring cables, 153;
mains cable, 149
history, 132
organisation, 134–137
percentage of market share: general wiring
cable, 151–152; insulated electric wires
and cables, 138–139; mains cable, 147;
telecommunications cable, 158; winding
wires and strips, 155–156
prices: general wiring cable, 153; insulated
electric wires and cables, 145; mains
cable, 149; telecommunication cable,
160; winding wires and strips, 157
production: general wiring cable, 154;
mains cable, 150; supertension cable, 150
profits: insulated electric wires and cables,
140, 146
rebates: general wiring cable, 153; mains
cable, 149
research and development: insulated elec-
tric wires and cables, 141–144
sales: general wiring cable, 151–152; in-
sulated electric wires and cables, 138–139;
mains cable, 147; supertension cable,
147; telecommunication cable, 158;
winding wires and strips, 155–156
stockholding: general wiring cable, 154;
mains cable, 150; supertension cable, 150
views: on supply of insulated electric wires
and cables, 383
Association of Electrical Machinery Trades
expresses concern over surcharges on
winding wires and strips, 350
Associations of cable makers
(see also Cable Makers Association; Covered
Conductors Association; Electric Cable
Makers Confederation; General Wiring
Cables Group; Home Telephone Cable
Makers Association; Mains Cables
Group; Supertension Cables Group;
Switchboard Cables Association; Tele-
Associations of cable makers—continued
phone Cable Makers Association)
membership, 30–33, Appendix 4
AWCO see Aluminium Wire & Cable Co Ltd
Balfour, Beatty & Co Ltd see Balfour Beatty
Ltd
Balfour Beatty Ltd
electrical installation contracting for BICC
Ltd, 59
relations with BICC Ltd, 377
re-organisation, 37
sales and profits: insulated electric wires
and cables, 38
BICC see BICC Ltd
BICC Cables see BICC Cables Ltd
BICC Cables Ltd
(see also BICC Research and Engineering
Ltd)
monopoly situation: conclusions of the
report, 444, 469, 476–513
organisation, Appendix 5
re-organisation, 37
sales and profits: insulated electric wires
and cables, 38
BICC Industrial Products Ltd
re-organisation, 37, 60
sales and profits: insulated electric wires
and cables, 38
BICC International Ltd
re-organisation, 37
sales and profits: insulated electric wires
and cables, 38
BICC Ltd
(see also Balfour Beatty Ltd; BICC Cables
Ltd; BICC Industrial Products Ltd;
BICC International Ltd)
acquisition of: Pyrotenax Ltd, 105, 376;
Reliance-Clifton Cables Ltd, 127, 376
acquisitions, Appendix 3, Appendix 6;
views, 376
copper and aluminium activities, 55–58
discounts: general wiring cable, 97–104;
mains cable, 71–72, 74; winding wires
and strips, 120
history, 34–40
influence on prices, 372–374
investment: general wiring cable, 86–89;
mains cable, 65–68; supertension cable,
65–68
manufacture: mineral insulated cable, 105–110
monopoly situation: conclusions of the
report, 444, 469, 476–513; views, 379

References are to paragraph numbers, not page numbers

156
BICC Ltd—continued
organisation, 37-38, 40
overseas activities, 378
percentage of market share: general wiring cable, 82; insulated electric wires and cables, 39, 41; mains cable, 61; super tension cable, 61; telecommunication cable, 124-125; winding wires and strips, 115-116
prices: general wiring cable, 90-96; insulated electric wires and cables, 48-51; mains cable, 69-77; super tension cable, 69-77; telecommunication cable, 128; views, 380-381; winding wires and strips, 119
production: general wiring cable, 86-89; insulated electric wires and cables, 43-46; mains cable, 65-68; super tension cable, 65-68; telecommunication cable, 126-127; winding wires and strips, 118
profits: general wiring cable, 112-114; insulated electric wires and cables, 52-54; mains cable, 81; super tension cable, 81; telecommunication cable, 129-130; winding wires and strips, 122
rebates: aggregated rebates, 375; general wiring cable, 97-104; mains cable, 74; winding wires and strips, 121
relations with Balfour Beatty Ltd, 377
sales: general wiring cable, 82-85; insulated electric wires and cables, 41-42; mains cable, 61-63; super tension cable, 61-62, 64; telecommunication cable, 124-125; winding wires and strips, 115-117
stockholding: mains cable, 78-80; telecommunication cable, 131; winding wires and strips, 123
views: on supply of insulated electric wires and cables, 371
BICC Research and Engineering Ltd
research and development: insulated electric wires and cables, 47
Boston Insulated Wire (UK) Ltd, 321
Brand Rex Ltd, 321
British Aluminium Co Ltd, 240
British Insulated Callender's Cables Ltd see BICC Ltd
British Railways Board
evidence, 317-318
Cable Makers Association
functions, 21, 31
membership, 30
Cables see Insulated electric wires and cables
Calflex see Calflex Cables Ltd
Calflex Cables Ltd, 321

CCA see Covered Conductors Association
CCEG see Covered Conductors Export Group
CMA see Cable Makers Association
Coaxial cable see Telecommunication cable
Competition
prices, 22-23, 303, 344-347
views of users and minor manufacturers, Appendix 2
Complaints
cable prices in relation to copper prices, 300-302
Complex monopoly situation see Monopoly situation
Conclusions, 6-7, 443-536
Concordia see Concordia Electric Wire & Cable Co Ltd
Concordia Electric Wire & Cable Co Ltd
sales: insulated electric wires and cables, 238-239
Conditions of sale
views of users and minor manufacturers, Appendix 2
Conduct of buyers
monopoly situation: conclusions of the report, 466-468
Cossor, (AC) Ltd, 230
Covered Conductors Association
discounts: general wiring cable, 181; mains cable, 176-177; super tension cable, 176-177; winding wires and strips, 185-187
history, 162-163
organisation, 161, 164-166, Appendix 9
percentage of market share: general wiring...
Delta Group—continued

cable, 179–180; insulated electric wires and cables, 167; mains cable, 172–174; supertension cable, 172–174; winding wires and strips, 183

prices: general wiring cable, 181; insulated electric wires and cables, 170–171; mains cable, 176–177; supertension cable, 175; winding wires and strips, 185–187

production: general wiring cable, 182; mains cable, 178; supertension cable, 178; winding wires and strips, 188

profits: insulated electric wires and cables, 168

rebates: general wiring cable, 181; mains cable, 176–177; supertension cable, 176–177; winding wires and strips, 185–187

research and development: insulated electric wires and cables, 169

sales: general wiring cable, 179–180; insulated electric wires and cables, 167; mains cable, 172–174; supertension cable, 172–174; winding wires and strips, 183–184

stockholding: general wiring cable, 182; mains cable, 178; supertension cable, 178; winding wires and strips, 188

views: on supply of insulated electric wires and cables, 385

Demand

general wiring cable, 25, 273–280

insulated electric wires and cables: background, 19–27

supertension cable, 24, 262–271

winding wires and strips, 26, 330–332

ECMC see Electric Cable Makers Confederation

Electric Cable Makers Confederation

functions, 31–33

membership, 30–31

Electric cables see Insulated electric wires and cables

Electric wires see Insulated electric wires and cables

Enfield Rolling Mills Ltd, 137, 162–163, 166

Enfield Winding Wires Ltd, 161, 163

ERM see Enfield Rolling Mills Ltd

Evidence

sources, 4

views of cablemakers not belonging to any of the export associations, 442

EWW see Enfield Winding Wires Ltd

Export Association see Export Association of the Electric Cable Making Industry

Export Association of the Electric Cable Making Industry

evidence and views of members, 439

history, 390–391

monopoly situation: conclusions of the report, 529–531

organisation, 392–402

working instructions: cables, Appendix 12, Appendix 13

Export associations

exports, 418–420

membership, 416

monopoly situation: conclusions of the report, 528–535

organisation, 388–420

percentage of market share, 418–419

sales, 417

Exports

monopoly situation: conclusions of the report, 469–471, 511–513

profits, 426–429

sales, 11, 421–425

External telephone cable see Telecommunication cable

GEC see General Electric Cable Co Ltd

GEC Hirst Research Centre, 142

GEC Telecommunications Ltd, 134

General Electric Co Ltd

organisation, 133, Appendix 8

General wiring cable

definition, 10, 272

demand, 25, 273–280

discounts: AEI, 153; BICC Ltd, 97–104;

Delta Group, 181; to electrical contractors,

314; Pirelli General Cable Works Ltd,

205; to wholesalers, 304–313

distribution: Pirelli General Cable Works

Ltd, 206

exports: profits, 429

industrial users and public sector customers,

315–318

investment: BICC Ltd, 86–89

mineral insulated cable: manufacture by

BICC Ltd, 105–110

monopoly situation: conclusions of the

report, 447–460, 480–493

percentage of market share, 82; AEI,

151–152; Delta Group, 179–180; Pirelli

General Cable Works Ltd, 203–204

prices, 281–302; AEI, 153; BICC Ltd,

90–96; Crompton Parkinson Ltd, 235;

Delta Group; 181; Pirelli General Cable

Works Ltd, 205;

principal customers, 18

production: AEI, 154; BICC Ltd, 86–89;

Delta Group, 182; Pirelli General Cable

Works Ltd, 207

References are to paragraph numbers, not page numbers

158
General wiring cable—continued

profits, 322–325; BICC Ltd, 112–114
rebates: AEI, 153; BICC Ltd, 97–104;
Delta Group, 181; to electrical contractors, 314; Pirelli General Cable
Works Ltd, 205; to wholesalers, 304–313
sales: AEI, 151–152; BICC Ltd, 82–85;
Delta Group, 179–180; Pirelli General
Cable Works Ltd, 203–204
short length surcharges, 319–320
stockholding: AEI, 154; Delta Group, 182;
Pirelli General Cable Works Ltd, 207
supply, 273–280

General Wiring Cables Group
functions, 31–33
membership, 30

Greengate see Greengate Cables Ltd

Greengate Cables Ltd
acquisition by Raytheon Co, 230
sales: insulated electric wires and cables, 231–232

GWCG see General Wiring Cables Group

Hawker Siddeley Group Ltd, 240
Home Telephone Cable Makers Association
functions, 31–33
membership, 30

HTCMA see Home Telephone Cable Makers
Association

ICDC see International Cable Development
Corporation

Imports
insulated electric wires and cables: analysis of UK imports, Appendix 17
winding wires and strips: effects, 347

Insulated electric wires and cables
(see also General wiring cable; Mains cable;
Supertension cable; Telecommunication
cable; Winding wires and strips)
cable construction and mode of manufacture, Appendix 1
definition, 9–10
demand: background, 19–27
exports, 11, 421–425; UK share of total
OECD exports, 422
imports into UK: analysis, Appendix 17
manufacturers: scale of operation, 12–17
monopoly situation: conclusions of the report, 434–446
percentage of market share: AEI, 138–139;
BICC Ltd, 39, 41; Delta Group, 167;
Pirelli General Cable Works Ltd, 192
prices: AEI, 145; BICC Ltd, 48–51,
Appendix 11; BICC's influence, 372–374;
Delta Group, 170–171; Pirelli General
Cable Works Ltd, 195–198
production: BICC Ltd, 43–46

Insulated electric wires and cables—continued

profits: AEI, 140, 146; Balfour Beatty Ltd,
38; BICC Ltd, 52–54; Delta Group; 168;
Pirelli General Cable Works Ltd, 193
research and development: AEI, 141–144;
BICC Research and Engineering Ltd,
47; Delta Group, 169; Pirelli General
Cable Works Ltd, 194
sales: AWCO, 240–241; Balfour Beatty
Ltd, 38; BICC Ltd, 41–42, 138–139;
Concordia Electric Wire & Cable Co Ltd,
238–239; Crompton Parkinson Ltd, 234;
Delta Group, 167; Greengate Cables
Ltd, 231–232; Pirelli General Cable
Works Ltd, 192; Ripaults Ltd, 236–237;
Rist's Wires & Cables Ltd, 228–229;
STC, 218; Sterling Cable Co Ltd, 231–
232; Ward & Goldstone Ltd, 225–226
supply: AEI's views, 383; BICC's views,
371; Delta's views, 385; Pirelli General's
views, 384; Rist's views, 386; views of
users and minor manufacturers, Appendix
2

Internal telephone cable see Telecommuni-
cation cable

International associations
definition of goods covered by ICDC
export schemes, Appendix 15
evidence and views of member cable-
makers, 430–432; on competition, 436–
438; on investment and employment in
the UK, 431; on technical innovation,
433; on trade between the UK and
member countries, 434–435
monopoly situation: conclusions of the
report, 514–527
organisation, 409–415
trade coverage, Appendix 16

International Cable Development Corporation
definition of goods covered by ICDC
export schemes, Appendix 15
history and organisation, 410

International Standard Electrical Corpora-
tion, 216

International Telephone Cable Development
Association
organisation, 404, 411

International Telephone and Telegraph Cor-
poration, 216

ISEC see International Standard Electrical
Corporation

ITCDA see International Telephone Cable
Development Association

ITT see International Telephone and Tele-
graph Corporation

Kent see Kent Electric Wire Ltd
Kent Electric Wire Ltd, 133

References are to paragraph numbers, not page numbers

159
Land telecommunication cable see Telecommunication cable
LEW see London Electric Wire Co & Smith's Ltd
London Electric Wire Co & Smith's Ltd, 133
Lucas Industries Ltd, 227
Mains cable
definition, 10, 242
demand, 24, 243–248
discounts: AEI, 149; BICC Ltd, 71–72, 74;
Delta Group, 176–177; Pirelli General Cable Works Ltd, 201
exports: profits, 427
investment: BICC Ltd, 65–68
monopoly situation: conclusions of the reports, 496–499
percentage of market share: AEI, 147;
BICC Ltd, 61; Delta Group, 172–174;
Pirelli General Cable Works Ltd, 199–200
prices, 249–255; AEI, 149; BICC Ltd, 69–77;
Delta Group, 176–177; Pirelli General Cable Works Ltd, 201
principal customers, 18
production: AEI, 150; BICC Ltd, 65–68;
Delta Group, 178; Pirelli General Cable Works Ltd, 202
profits: BICC Ltd, 81
rebates: AEI, 149; BICC Ltd, 74; Pirelli General Cable Works Ltd, 201
sales: AEI, 147; BICC Ltd, 61–63; Delta Group, 172–174; Pirelli General Cable Works Ltd, 199–200
stockholding: AEI, 150; BICC Ltd, 78–80;
Delta Group, 178; Pirelli General Cable Works Ltd, 202
supply, 243–248
Mains Cables Group
functions, 31–33
membership, 30
MCG see Mains Cables Group
Mineral insulated cable see General wiring cable
Ministry of Defence
Procurement Executive: evidence, 316
MOD see Ministry of Defence
Monopolies and Mergers Commission
British Insulated Callender's Cables Ltd and Pyrotenax Ltd. A report on the proposed merger, 1967, 105, 110, 490, Appendix 7
conclusions, 6–7, 443–536
terms of reference, 1–3
Monopoly situation
BICC's views, 379
Monopoly situation—continued
existence, 6–7, 371, 382, 387, 444, 446, 460, 465, 468–469, 471, 478, 485–488, 492,
495, 499, 505, 510, 512, 527, 530–532, 535–536
National Coal Board
discounts: on mains cable by BICC Ltd, 72
evidence, 316
NCB see National Coal Board
OECD see Organisation for Economic Co-operation and Development
Organisation for Economic Co-operation and Development
UK share of total OECD exports, 422
OTCMA see Overseas Telephone Cable Makers Association
Overseas Telephone Cable Makers Association
evidence and views of members, 440
monopoly situation: conclusions of the report, 532 organisation, 403–405
Pirelli General Cable Works Ltd
acquisitions, Appendix 3
discounts: general wiring cable, 205; mains cable, 201; supertension cable, 201;
telecommunication cable, 213; winding wires and strips, 209
distribution: general wiring cable, 206
history, 189–190
organisation, 191, Appendix 10
percentage of market share: general wiring cable, 203–204; insulated electric wires and cables, 192; mains cable, 199–200;
supertension cable, 199–200; telecommunication cable, 211–212; winding wires and strips, 208
prices: general wiring cable, 205; insulated electric wires and cables, 195–198; mains cable, 201; supertension cable, 201; telecommunication cable, 213; winding wires and strips, 209
production: general winding cable, 207; mains cable, 202; supertension cable, 202; telecommunication cable, 214; winding wires and strips, 210
profits: insulated electric wires and cables, 193
rebates: general wiring cable, 205; mains cable, 201; supertension cable, 201; telecommunication cable, 213; winding wires and strips, 209
research and development: insulated electric wires and cables, 194
sales: general wiring cable, 203–204; insulated electric wires and cables, 192;
References are to paragraph numbers, not page numbers
160
Pirelli General Cable Works Ltd—continued
mains cable, 199–200; supertension cable, 199–200; telecommunication cable, 211–212; winding wires and strips, 208
stockholding: general wiring cable, 207; mains cable, 202; supertension cable, 202; telecommunication cable, 214; winding wires and strips, 210
views: on supply of insulated electric wires and cables, 384

Post Office
telecommunication cable: factors affecting supply of external telephone cable, 363–368; requirements for external telephone cable, 357–362; views on supply, 368

Prices
BICC's views, 380–381
competition, 22–23, 303, 344–347
general wiring cable, 281–302
mains cable, 249–255
views of users and minor manufacturers, Appendix 2
winding wires and strips, 333–338

Procurement Executive see Ministry of Defence

Profits
exports, 426–429
general wiring cable, 322–325
winding wires and strips, 351–352

Public interest
conclusions of the report, 472–475

Pyrotenax Ltd
acquisition by BICC Ltd, 105, 376

Quad cable see Telecommunication cable

Raytheon Co
acquisition of Greengate Cables Ltd, 230

Reliance-Clifton Cables Ltd
acquisition by BICC Ltd, 127, 376

Ripaults Ltd
sales: insulated electric wires and cables, 236–237

Rist's see Rist's Wires & Cables Ltd

Rist's Wires & Cables Ltd
organisation, 227
sales: insulated electric wires and cables, 228–229
views: on supply of insulated electric wires and cables, 386

SCA see Switchboard Cables Association

Short length surcharges see Surcharges

Sims see Sims (FD) Ltd
Sims (FD) Ltd, 133

Smaller manufacturers
views, Appendix 2

Smith, Frederick & Co (FS)
relationship with AEI, 137

Standard Telephones & Cables Ltd
acquisition of Submarine Cables Ltd, 217
organisation, 216–217
sales: insulated electric wires and cables, 218

STC see Standard Telephones & Cables Ltd
STCG see Super Tension Cables Ltd

STEA see Super Tension Cables Export Agreement

Sterling see Sterling Cable Co Ltd
Sterling Cable Co Ltd
sales: insulated electric wires and cables, 231–232

Submarine cable see Telecommunication cable

Submarine Cables Ltd
acquisition by STC, 217

Subscriber cable see Telecommunication cable

Super Tension Cables Export Agreement
organisation, 412

Super Tension Cables Group
functions, 31–33
membership, 30

Supertension cable
definition, 10, 261
demand, 24, 262–271
discounts: Delta Group, 176–177; Pirelli General Cable Works Ltd, 201
exports: profits, 427
investment: BICC Ltd, 65–68
monopoly situation: conclusions of the report, 500–505
percentage of market share: BICC Ltd, 61; Delta Group, 172–174; Pirelli General Cable Works Ltd, 199–200
prices: BICC Ltd, 69–77; Delta Group, 175; Pirelli General Cable Works Ltd, 201
principal customers, 18
production: AEI, 150; BICC Ltd, 65–68; Delta Group, 178; Pirelli General Cable Works Ltd, 202
profits: BICC Ltd, 81
rebates: Delta Group, 176–177; Pirelli General Cable Works Ltd, 201
sales: AEI, 147; BICC Ltd, 61–62, 64; Delta Group, 172–174; Pirelli General Cable Works Ltd, 199–200
stockholding: AEI, 150; Delta Group, 178; Pirelli General Cable Works Ltd, 202
supply, 262–271

References are to paragraph numbers, not page numbers

161
Supply
general wiring cable, 273–280
telecommunication cable, 354–356
winding wires and strips, 330–332

Surcharges
short length surcharges: general wiring
cable, 319–320
winding wires and strips, 343

Switchboard Cables Association
functions, 31–33
membership, 30

TCL see Telephone Cables Ltd
TCMA see Telephone Cable Makers Association

Telecommunication cable
coaxial cable: Post Office supply and
demand, 358–362
definition, 10, 353
demand, 27
discounts: Pirelli General Cable Works
Ltd, 213
external telephone cable: factors affecting
supply to Post Office, 363–368; Post Office
requirements, 357–362
internal telephone cable, 369
land telecommunication cable, 219–222
monopoly situation: conclusions of the
report, 506–510
percentage of market share: AEI, 158;
BICC Ltd, 124–125; Pirelli General
Cable Works Ltd, 211–212
Post Office views on supply, 368
prices: AEI, 160; BICC Ltd, 128; Pirelli
General Cable Works Ltd, 213
principal customers, 18
production: BICC Ltd, 126–127; Pirelli
General Cable Works Ltd, 214
profits: BICC Ltd, 129–130
quad cable: Post Office supply and demand
358–362
rebates: Pirelli General Cable Works Ltd,
213
sales: AEI, 158; BICC Ltd, 124–125;
Pirelli General Cable Works Ltd, 211–212
stockholding: BICC Ltd, 131; Pirelli
General Cable Works Ltd, 214
submarine cable, 223, 370
subscriber cable: Post Office supply and
demand, 358–362
supply, 354–356
telephone cord, 369

Telephone Cable Makers Association
functions, 31–33
membership, 30

Telephone Cables Ltd
organisation, 133
relationship with AEI, 137

Telephone cord see Telecommunication cable

Terms of reference, 1–3

Thorn Electrical Industries Ltd, 238
Tube Investments Ltd, 240

Vacite Ltd, 134

Ward & Goldstone see Ward & Goldstone Ltd

Ward & Goldstone Ltd
organisation, 224
sales: insulated electric wires and cables,
225–226

Wholesalers
discounts: on general wiring cable, 304–313;
by BICC Ltd, 98–99; on mains
cable by BICC Ltd, 74; by Delta Group,
177
rebates: on general wiring cable, 304–313;
by BICC Ltd, 103

Winding wires and strips
definition, 10, 326–329
demand, 26, 330–332
discounts, 339–342, 344–347; BICC Ltd,
120; Delta Group, 185–187; Pirelli
General Cable Works Ltd, 209
exports: profits, 429
imports: effects, 347
monopoly situation: conclusions of the
report, 461–465, 494–495
percentage of market share: AEI, 155–156;
BICC Ltd, 115–116; Delta Group, 183;
Pirelli General Cable Works Ltd, 208
prices, 333–338; AEI, 157; BICC Ltd, 119;
Delta Group, 185–187; Pirelli General
Cable Works Ltd, 209
principal customers, 18
production: BICC Ltd, 118; Delta Group,
188; Pirelli General Cable Works Ltd, 210
profits, 351–352; BICC Ltd, 122
rebates, 339–342, 344–347; BICC Ltd, 121;
Delta Group, 185–187; Pirelli General
Cable Works Ltd, 209
sales: AEI, 155–156; BICC Ltd, 115–117;
Delta Group, 183–184; Pirelli General
Cable Works Ltd, 208
stockholding: BICC Ltd, 123; Delta
Group, 188; Pirelli General Cable Works
Ltd, 210
supply, 330–332
surcharges, 343

Wires see Insulated electric wires and cables;
Winding wires and strips

References are to paragraph numbers, not page numbers