

LV and MV polymeric insulated cables for use by distribution and generation utilities

**Part 3. Specification for distribution cables of rated
voltage 0.6/1 kV**

Section 3.3 Specification for XLPE insulated combined neutral and earth cables with solid aluminium conductors

(Implementation of HD 603)

ICS 29.060.20

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by Technical Committee GEL/20, Electric cables, to subcommittee GEL/20/2, Mains cables 1kV and above, upon which the following bodies were represented:

- Association of Consulting Engineers
- British Approvals Service for Cables
- British Cable Makers Confederation
- British Iron and Steel Producers' Association
- British Plastics Federation
- ERA Technology Ltd.
- Electricity Association
- Engineering Equipment and Materials Users' Association
- Institution of Incorporated Executive Engineers
- London Underground Ltd.
- British Railways Board
- British Steel Industry

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 November 1996

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Amendments issued since publication

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The following BSI references relate to the work on this standard:
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Foreword

BS 7870 was prepared by Technical Committee GEL/20. It implements the nationally applicable parts of Harmonization Documents HD 603, 604, 605, 620, 622, 626 and 627 published by the European Committee for Electrotechnical Standardization (CENELEC) in accordance with the decision of the CENELEC Technical Board.

BS 7870 applies to cables for fixed installations having a rated voltage U_o/U up to and including 19/33 kV and is published as a series of separate Parts and Sections, as listed in the table in the foreword of Part 1.

Section 3.3 of BS 7870 implements part of HD 603 Part 5Q and is to be read in conjunction with BS 7870 : Parts 1 and 2.

The cable type included in this Section is three-core XLPE insulated solid aluminium phase conductors with solid neutral/earth conductor (Type 5Q).

A guide to use for this type of cable is under consideration.

It has been assumed in the preparation of this British Standard that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

WARNING. The methods of test described in this British Standard do not detail all precautions necessary to meet the requirements of the Health and Safety at Work, etc, Act 1974. Attention should be paid to any appropriate safety precautions and the tests should only be carried out by authorized personnel.

Compliance with a British Standard does not of itself confer immunity from legal obligations.