

LV and MV accessories for power cables with rated voltage from 0.6/1 kV ($U_m = 1.2$ kV) up to and including 20.8/36 kV ($U_m = 42$ kV) —

Part 3: Test requirements for LV accessories

(Implementation of HD 623)

ICS 29.120.20

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by Technical Committee GEL/20, Electric cables, to Technical Subcommittee GEL/20/11 (formerly GEL/20/7), Cable accessories, upon which the following bodies were represented:

- Association of Consulting Engineers
- BEAMA Electrical Cable and Conductor Accessory Manufacturers' Association
- British Approvals Service for Cables
- British Cables Association
- Electrical Contractors Association
- Electrical Installation Equipment Manufacturers' Association (BEAMA Ltd.)
- Electricity Association
- ERA Technology Ltd.
- Institution of Lighting Engineers
- London Underground Ltd.
- Railway Industries Association

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Foreword

BS 7888 was prepared by Technical Subcommittee GEL/20/11. It implements nationally applicable parts of Harmonization Documents HD 623, 628, 629.1 and 629.2 published by the European Committee for Electrotechnical Standardization (CENELEC) in accordance with the decision of the CENELEC Technical Board.

BS 7888 applies to accessories for power cables with rated voltage U_0/U from 0.6/1 kV ($U_m = 1.2$ kV) up to and including 20.8/36 kV ($U_m = 42$ kV) and is published as a series of separate parts and sections, as listed in the table in the foreword of BS 7888-1.

BS 7888-3 implements the relevant requirements of HD 623 and is to be read in conjunction with BS 7888-1 and BS 7888-2.

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 performed by authorized personnel.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

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1 Scope

This British Standard specifies the performance requirements, verified by type testing, for joints, stop ends and outdoor terminations for cables of rated voltage 0.6/1.0 (1.2) kV, as defined in BS 7870-3.

The accessories covered by this British Standard are as follows:

- outdoor terminations for cables with extruded insulation;
- straight joints, branch joints and stop ends for cables with extruded insulation;
- transition joints between cables with extruded insulation and cables with impregnated paper insulation.

Joints, stop ends and outdoor terminations for impregnated paper insulated cables, and accessories for special applications such as submarine cables, ships' cables or hazardous situations (explosive environments, fire-resistant cables or seismic conditions) do not fall within the scope of this British Standard.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 923-1:1990, *Guide on high-voltage testing techniques — Part 1: General*.

BS 7870-3:2001 (all sections), *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*.

BS 7888-2:1998, *LV and MV accessories for power cables with rated voltage from 0.6/1 kV ($U_m = 1.2$ kV) up to and including 20.8/36 kV ($U_m = 42$ kV) — Part 2: Methods of test*.

BS 7933, *Electric cables — Accessories — Material characterization*.

HD 623¹⁾, *Specification for joints, stop ends and outdoor terminations for distribution cables of rated voltage 0.6/1.0 kV*.

HD 628¹⁾, *Test methods for accessories for power cables with rated voltage from 3.6 kV/6 kV ($U_m = 7.2$ kV) up to and including 20.8/36 kV ($U_m = 42$ kV)*.

HD 629-1¹⁾, *Test requirements on accessories for use on power cables of rated voltages from 3.6 kV/6 kV (7.2) kV up to and including 20.8/36 (42) kV — Part 1: Cables with extruded insulation*.

HD 629-2¹⁾, *Test requirements on accessories for use on power cables of rated voltages from 3.6 kV/6 kV (7.2) kV up to and including 20.8/36 (42) kV — Part 2: Cables with impregnated insulation*.

3 Terms and definitions

For the purposes of this part of BS 7888, the definitions given in Clause 3 of BS 7888-1:1998 apply.

¹⁾ Referred to in the foreword only.