

Specification for

Elastomer-insulated cables for electric signs and high-voltage luminous-discharge-tube installations

Câbles à isolation élastomère pour enseignes
électriques et installations de lampes à
décharge alimentées en haute tension

Gummiisolierte Leitungen und Kabel für
elektrische Zeichen und
Hochspannungsentladungslampen

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Cables and Insulation Standards Policy Committee (CIL/-) to Technical Committee CIL/20, upon which the following bodies were represented:

Aluminium Federation
Association of Consulting Engineers
Association of Manufacturers of Domestic Electrical Appliances
British Approvals Service for Cables
British Cable Makers' Confederation
British Plastics Federation
British Railways Board
British Steel Industry
British Telecommunications plc
Department of the Environment (Property Services Agency)
Department of Trade and Industry (Consumer Safety Unit, CA Division)
ERA Technology Ltd.
Electricity Supply Industry in England and Wales
Engineering Equipment and Materials Users' Association
Institution of Electrical Engineers
London Regional Transport

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

Association of Manufacturers Allied to the Electrical and Electronic Industry (BEAMA Ltd)
Association of Supervisory and Executive Engineers
British Electrical Systems Association (BEAMA Ltd.)
British Non-ferrous Metals Federation
Chartered Institution of Building Services Engineers
Electrical Contractors' Association
Electrical Installation Equipment Manufacturers' Association (BEAMA Ltd.)
Engineering Industries Association
GAMBICA (BEAMA Ltd.)
Lighting Industry Federation Ltd.
National Association of Lift Makers
Portable Electric Tool Manufacturers' Association
Transmission and Distribution Association (BEAMA Ltd.)

This British Standard, having been prepared under the direction of the Cables and Insulation Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 28 February 1991

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The following BSI references relate to the work on this standard:
Committee reference CIL/20
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Amendments issued since publication

Amd. No.	Date	Text affected

Amendment No. 1
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to BS 5055 : 1991

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discharge-tube installations**

Corrections

AMD 6768
September 1991

8.2 Braided screen

In note 1, delete the existing formula and substitute the following.

$$F = \frac{Mnd}{2\pi D} \left[1 + \left(\frac{\pi^2 D^2}{L^2} \right) \right]^{1/2}$$

AMD 6768
September 1991

Table 5. Summary of electrical tests

Under '*Voltage test on complete cable*', in both columns against 'Temperature' delete 'Room (in °C)' and substitute '20 ± 5 °C'.

Under '*Long-term breakdown test*', in column 3 against 'Temperature' delete '−20 ± 2 °C' and substitute '20 ± 2 °C'.

AMD 6768
September 1991

11.3 Long-term breakdown test on unscreened cables

In line 3, delete '−20 ± 2 °C' and substitute '20 ± 2 °C'.



Amendment No. 2
published and effective from 15 May 1993
to BS 5055 : 1991

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for electric signs and high-voltage luminous-
discharge-tube installations

Revised text

AMD 7565
 May 1993

Foreword

After the second paragraph, insert the following new text.

'This edition includes cables with reduced emission of smoke and corrosive gases when affected by fire. The improved performance under fire conditions is assessed on the basis of tests which measure the emission of smoke and corrosive gases under defined conditions.'

AMD 7565
 May 1993

Clause 11.3 as amended by Amendment no. 1 Long-term breakdown test on unscreened cables

In line 3, delete ' 20 ± 2 °C' and substitute ' -20 ± 2 °C'.

AMD 7565
 May 1993

Clause A.4.3

Delete the note and substitute the following new text.

'NOTE. After each test, it may be necessary to clean the windows of the photometric system to regain 100 % transmission after stabilization of the voltage.'

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Foreword

This British Standard has been prepared under the direction of the Cables and Insulation Standards Policy Committee.

It is a revision of BS 5055 : 1973, which is withdrawn. The revision introduces an improved cable specification. Attention is drawn to the fact that the Regulations for Electrical Installations issued by the Institute of Electrical Engineers¹⁾ include additional requirements concerning the connection of high-voltage discharge lighting installations to the low-voltage mains supply, e.g. switching and isolation requirements.

A revision of BS 559 has been prepared concurrently with this revision of BS 5055.

Product certification. Users of this British Standard are advised to consider the desirability of third party certification of product conformity with this British Standard based on testing and continuing surveillance, which may be coupled with assessment of a supplier's quality systems against the appropriate Part of BS 5750.

Enquiries as to the availability of third party certification schemes will be forwarded by BSI to the Association of Certification Bodies. If a third party certification scheme does not already exist, users should consider approaching an appropriate body from the list of Association members.

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

¹⁾ Copies of the Regulations for Electrical Installations may be obtained from the Institution of Electrical Engineers, PO Box No. 8, Herts SG5 1RS.