



Fire Performance Cable Standards

British Standards

Standard No	Description
BS 5266-1:2005	Emergency lighting. Code of practice for the emergency lighting of premises
BS 5839-1:2008	Fire detection and fire alarm systems for buildings. Code of practice for design, installation, commissioning and maintenance
BS 6387:1994	Specification for performance requirements for cables required to maintain circuit integrity under fire conditions
BS 6724:1997	Electric cables. Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V, having low emission of smoke and corrosive gases when affected by fire
BS 7629-1:2008	Electric cables. Specification for 300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire. Multicore and multipair cables
BS 7655-0:2006	Specification for insulating and sheathing materials for cables. General introduction
BS 7655-1.5:2000	Specification for insulating and sheathing materials for cables. Cross-linked elastomeric insulating compounds. Flame retardant composites
BS 7835:2007	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6kV up to 19/33kV having low emission of smoke and corrosive gases when affected by fire. Requirements and test methods
BS 7846:2000	Electric cables. 600/1000 V armoured fire-resistant cables having thermosetting insulation and low emission of smoke and corrosive gases when affected by fire
BS 8436:2004	Electric cables 300/500V screened electric cables having low emission of smoke and corrosive gases when affected by fire, for use in walls, partitions and building voids. Multicore cable
BSEN 50266-1:2001	Common test methods for cables under fire conditions. Test for vertical flame spread of vertically-mounted bunched wires or cables. Apparatus
BSEN 50266-2:2001	Common test methods for cables under fire conditions. Test for vertical flame spread of vertically-mounted bunched wires or cables. Procedures
BSEN 50267-1:1999	Common test methods for cables under fire conditions. Tests on gases evolved during combustion of materials from cables. Apparatus
BSEN 50267-2-1:1999	Common test methods for cables under fire conditions. Tests on gases evolved during combustion of materials from cables. Procedures. Determination of the amount of halogen acid gas
BSEN 50267-2-2:1999	Common test methods for cables under fire conditions. Tests on gases evolved during combustion of materials from cables. Procedures. Determination of degree of acidity of gases for materials by measuring pH and conductivity
BSEN 50267-2-3:1999	Common test methods for cables under fire conditions. Tests on gases evolved during combustion of materials from cables. Procedures. Determination of degree of acidity of gases for cables by determination of the weighted average of pH and conductivity
BSEN 50268-1:2000	Common test methods for cables under fire conditions. Measurement of smoke density of cables burning under defined conditions. Apparatus
BSEN 60079-1:2007	Electrical apparatus for explosive gas atmospheres. Flameproof enclosures 'd'
BSEN 60332-1-2:2004	Tests on electric & optical fibre cables under fire conditions. Test for vertical flame propagation for a single vertical insulated wire or cable. Procedure for 1kW pre-mixed flame
BSEN 60332-1-3:2004	Tests on electric & optical fibre cables under fire conditions. Test for vertical flame propagation for a single vertical insulated wire or cable. Procedure for determination of flaming droplets/particles
BSEN 60332-2-2:2004	Tests on electric & optical fibre cables under fire conditions. Tests for vertical flame propagation for a single vertical insulated wire or cable. Procedure for diffusion flame
BSEN60702-1:2002	Mineral insulated cables and their terminations with a rated voltage not exceeding 750V. Cables
BSEN60702-2:2002	Mineral insulated cables and their terminations with a rated voltage not exceeding 750V. Terminations
BSEN 61034-2:2005	Measurement of smoke density of cables burned under defined conditions. Test procedure and requirements



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German Standards

Standard No	Description
DIN VDE 0266 Part 3 & 4	Halogen-free cables with improved characteristics in the case of fire, with reduced fire propagaion and continuance of isolation for use in the containment of nuclear power plants
DIN VDE 0267	Halogen-free cables with improved characteristics in the case of fire, nominal voltages from 6 up to 30kV
DIN VDE 0276 Part 604	Power cables of nominal voltages 0.6/1kV with special fire performance for use in power stations
DIN VDE 0472 Part 814	Testing of cables, wires and flexible cords, continuance of isolation effect under fire conditions
DIN 4102-12	Fire behaviour of building materials and elements - Fire resistance of electric cable systems required to maintain circuit integrity - requirements and testing
DIN 4102-9	Fire behaviour of building materials and elements -seals for cable penetrations; concepts, requirements and testing

International Standards

Standard No	Description
IEC 60331-11	Tests for electric cables under fire conditions - circuit integrity - Part 11: apparatus - fire alone at a flame temperature of at least 750 deg C
IEC 60331-12	Tests for electric cables under fire conditions - circuit integrity - Part 12: apparatus - fire with shock at a temperature of at least 830 deg C
IEC 60331-21	Tests for electric cables under fire conditions - circuit integrity - Part 21: procedures and requirements - cables of rated voltage up to and including 0.6/1.0kV
IEC 60331-23	Tests for electric cables under fire conditions - circuit integrity - Part 23: procedures and requirements - electric data cables
IEC 60331-25	Tests for electric cables under fire conditions - circuit integrity - Part 25: procedures and requirements - optical fibre cables
IEC 60331-31	Tests for electric cables under fire conditions - circuit integrity - Part 31: procedures and requirements for fire with shock - cables of rated voltage up to and including 0.6/1.0kV
IEC 60332-1-1	Tests on electric and optical fibre cables under fire conditions Part 1: test for vertical flame propagation for a single insulated wire or cable Section 1: apparatus
IEC 60332-1-2	Tests on electric and optical fibre cables under fire conditions Part 1: test for vertical flame propagation for a single insulated wire or cable Section 2: procedure for 1kW pre-mixed flame
IEC 60332-1-3	Tests on electric and optical fibre cables under fire conditions Part 1: test for vertical flame propagation for a single insulated wire or cable Section 3: procedure for determination of flaming droplets/particles
IEC 60332-2-1	Tests on electric and optical fibre cables under fire conditions Part 2: test for vertical flame propagation for a single small insulated wire or cable Section 1: apparatus
IEC 60332-2-2	Tests on electric and optical fibre cables under fire conditions Part 2: test for vertical flame propagation for a single small insulated wire or cable Section 2: procedure for diffusion flame
IEC 60332-3-10	Tests on electric cables under fire conditions Part 3: test for vertical flame spread of vertically-mounted bunched wires or cables Section 10: apparatus
IEC 60332-3-21	Tests on electric cables under fire conditions Part 3: test for vertical flame spread of vertically-mounted bunched wires or cables Section 21: category A F/R
IEC 60332-3-22	Tests on electric cables under fire conditions Part 3: test for vertical flame spread of vertically-mounted bunched wires or cables Section 22: category A
IEC 60332-3-23	Tests on electric cables under fire conditions Part 3: test for vertical flame spread of vertically-mounted bunched wires or cables Section 23: category B
IEC 60332-3-24	Tests on electric cables under fire conditions Part 3: test for vertical flame spread of vertically-mounted bunched wires or cables Section 24 category C
IEC 60332-3-25	Tests on electric cables under fire conditions Part 3: test for vertical flame spread of vertically-mounted bunched wires or cables Section 25 category D
IEC 60702:2002	Mineral insulated cables and their terminations with a rated voltage not exceeding 750V
IEC 60754-1	Test on gases evolved during combustion of materials from cables. Part 1: determination of the amount of halogen acid gas

IEC 60754-2	Test on gases evolved during combustion of materials from cables. Part 1: determination of degree of acidity of gases evolved during the combustion of materials taken from electric cables by measuring pH and conductivity
IEC 61034-1	Measurement of smoke density of cables burning under defined conditions. Part 1: Test apparatus
IEC 61034-2	Measurement of smoke density of cables burning under defined conditions. Part 2: Test procedure and requirements
IEC/TR 6222	Fire performance of communication cables installed in buildings