

15. UNITED KINGDOM

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15.1 Standards Organizations

15.1.1 BSI

British Standards Institution
389 Chiswick High Road
London W4 4AL
England
Tel: 44-181-996-9000
Fax: 44-181-996-7400

DOCUMENT NO.	TITLE
BS2G 210	PTFE insulated equipment wires with silver-plated conductors
BS23	Copper and copper-cadmium trolley and contact wire for electric traction
BS115	Metallic resistance materials for electric purposes
BS125	Hard-drawn copper and copper-cadmium conductors for overhead power transmission purposes
BS174	Hard-drawn copper and copper-cadmium wire for telegraph and telephone purposes
BS176	Copper binding and jointing wires for telegraph and telephone purposes
BS177	Copper and copper-cadmium tapes and binders for telegraph and telephone purposes
BS182	Galvanized line-wire for telegraph and telephone purposes
BS183	General purpose galvanized steel wire strand
BS215	Aluminum conductors and aluminum conductors, steel-reinforced, for overhead power transmission
BS443	Galvanized coatings on wire
BS638	Welding Cables
BS1117	Bare fine resistance wire for precision electrical equipment
BS1432	Copper for electrical purposes; strip with drawn or rolled edges
BS2316	Radio frequency cables
BS2627	Wrought aluminum for electrical purposes wire
BS2755	Copper and copper-cadmium-stranded conductors for overhead electric traction systems
BS2873	Copper and copper alloys wire
BS3242	Aluminum alloy stranded conductors for overhead electric traction systems
BS3573	Polyethylene-insulated copper conductor telecommunication distribution cables
BS4393	Tin or tin-lead-coated copper wire
BS4565	Galvanized steel wire for aluminum conductors, steel reinforced
BS4579	Performance of mechanical and compression joints in electric cable and wire connectors
BS4066	Flame-retardant tests of electric cables

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389 Chiswick High Road
London W4 4AL
England
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Fax: 44-181-996-7400

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DOCUMENT NO.	TITLE
BS4109	Copper for electrical purposes. Wire for general electrical purpose and for insulated cables and flexible cords
BS4553	PVC-insulated split concentric cables with copper conductors for electric supply
BS4808	L.F. cables and wires with PVC insulation and PVC sheath for telecommunication
BS4990	Copper-clad aluminum conductors in insulated cables
BS5055	PVC-insulated and elastomer-insulated cables for electric signs and high-voltage luminous-discharge-tube installations
BS5099	Spark testing of electric cables
BS5308	Instrumentation cables
BS5425	Specification for coaxial cables for wire distribution systems
BS5467	Specification for armored cables with thermosetting insulation for electricity supply
BS5468	Specification for cross-linked polyethylene insulation of electric cables
BS5469	Specification for hard ethylene propylene rubber insulation of electric cables
BS6004	PVC-insulated cables for electric power and lighting
BS6141	Insulated cables and flexible cords for use in high temperature zones
BS6195	Insulated flexible cables and cords for coil leads
BS6207	Mineral-insulated cables
BS6231	PVC-insulated cables for switchgear and control gear wiring
BS6346	PVC-insulated cables for electricity supply
BS6360	Conductors in insulated cables and cords
BS6387	Cable test for circuit integrity under fire conditions
BS6480	Impregnated paper-insulated cables for electricity supply
BS6500	Insulated flexible cords
BS6708	Specification for trailing cables for mining purposes
BS6746	PVC insulation and sheath of electric cables
BS6853	3 meter cube smoke apparatus

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**British Standards Institution
389 Chiswick High Road
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Fax: 44-181-996-7400**

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DOCUMENT NO.	TITLE
BS6862	Cables for vehicles
BS6883	Elastomer-insulated cable for fixed wiring in ships
BS6899	Rubber insulation and sheath of electric cables
BS6977	Flexible cables for electric and hydraulic elevators
PD6455	Metric dimensions for l.f. cables and wires for telecommunications

15.1.2 BASEC

**British Approvals Service for Electric Cables
Maylands Avenue
Hemel Hempstead, Hertfordshire HP2 4SQ
England
Tel: 44-190-869-1121
Contact: Milton Keynes**

15.1.3 BBC

**British Broadcasting Company
56 Wood Lane
London W12 7RJ
England
Tel: 44-171-580-4468**

DOCUMENT NO.	TITLE
PSF 1/2M	Video Cable
PSF 1/3M	Video Cable
PSF 2/9M	Microphone Cable
PSF 4/1M	Microphone Cable
PSF 1/9M	Flexible Camera Cable

15.1.4 British Coal (formerly NCB)

**Ashby Road
Stanthorpe Bretby
Burton-on-Trent
Staffordshire DE15 0QD
England
Tel: 44-128-355-0500**

DOCUMENT NO.	TITLE
NCB188	Flexible trailing cables for use with coalcutters and similar purposes
BCS295	PVC insulated, wire armored and PVC sheathed cables
NCB504	Flexible trailing cables with galvanized steel pliable armoring
NCB505	Flexible trailing cables for use with drills
NCB653	Flexible multicore screened auxiliary cables with galvanized steel pliable armoring

15.1.5 BNFL

**British Nuclear Fuels Limited
Engineering Division
Risley
Warrington WA3 6AS
England
Tel: 44-192-583-2000**

DOCUMENT NO.	TITLE
PM73479	Cables for electricity supply and control having low emission of smoke and corrosive gases when affected by fire

15.1.6 BRB

**British Railways Board
Railway Technical Centre
London Road
Derby DE24 8UP
England
Tel: 44-133-234-2442**

DOCUMENT NO.	TITLE
BR 872	Flame Retardant Compound Insulated Cables for Railway Signalling
DC 112	Track Feeder Cable for DC Electrified Lines
TDE/76/P/16	Single Core Cables for Traction and Rolling Stock (Cross-linked Polyolefin Types)
TDE/74/P/74	Internal Cabling for Electronic Equipment
BRB/RIA 10	Twin and Multicore Jumper Cables for Diesel and Electric Vehicles
BRB/LUL/RIA 21	Single Core Cables for Installation on Traction and Rolling Stock (Rubber Types)

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15.1.7 British Telecom
81 Newgate Street
London EC1A 7AJ
England
Tel: 44-171-356-5000

DOCUMENT NO.	TITLE
2001	Coaxial cable
2002	Coaxial cable
2003A	Coaxial cable
CW135	See CW 1293 & 1308
CW193	See CW 1293 & 1308
CW210	See CW 1293 & 1308
CW1109	Single, twin and triple jumper wire for electronic equipment
CW1128	Polyethylene insulated and sheathed, jelly-filled, twisted-pair telephone cable for outdoor use (up to & including 100 pairs)
CW1198	External telephone cable
CW1229	Coaxial cable
CW1236	Polyethylene insulated and sheathed, jelly-filled, twisted-pair telephone cable for outdoor use (above 100 pairs)
CW1252	Self-supporting aerial telephone cable
CW1257	Jumper wire
CW1293	Internal telephone cable
CW1308	PVC-insulated and sheathed telephone cable for indoor use
CW1311	Telephone cordage
CW1316	Undercarpet telephone cable
CW1378	Drop wire No. 10
CW1600	"LFH" insulated and sheathed telephone cable for indoor use

15.1.8 Department of the Environment

DOCUMENT NO.	TITLE
M&E 42	Aviation ground lighting. Single core 6 mm ² (2,000 volt) PVC-sheathed cable

15.1.9 Department of Transport
Tollgate House
Houlton Street
Bristol BS2 9DJ
England
Tel: 44-117-921-8811

DOCUMENT NO.	TITLE
TR 1173	Multipair communications cable, polyethylene-insulated, polyethylene-sheathed, armored
TR 1238	Power cable for motorway communication systems (split concentric, armored)
TR 2029	Inductive loop cable for vehicle detection systems

15.1.10 ERA Technology Ltd.
Cleeve Road
Leatherhead
Surrey KT22 7SA
England
Tel: 44-137-237-4151
Fax: 44-137-237-4496

DOCUMENT NO.	TITLE
ERA 69-30 Part I	Sustained current ratings for paper-insulated, lead-sheathed cables
ERA 69-30 Part III	Sustained current ratings for PVC insulated cables
ERA 69-30 Part V	Sustained current ratings for cables with thermosetting insulation
ERA 93-0233R	User's guide to power cable fault location

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15.1.11 EA (Formerly ESI)
Electricity Association
30 Millbank Street
London SW1P 4RD
England
Tel: 44-171-963-5700

DOCUMENT NO.	TITLE
09-6	Auxiliary multicore and multipair cables
09-7	PVC-insulated concentric service cables with stranded copper conductors and copper concentric conductors
09-8	Impregnated paper insulated 600/1,000 volt cable with three solid aluminum phase conductors and aluminum sheath/neutral conductor (CONSAC)
09-12	Impregnated paper insulated corrugated aluminum sheathed 6,350/11,000 volt cable (PICAS)
43-13	Aerial bundled conductors (ABC) insulated with cross-linked polyethylene for low voltage overhead distribution

15.1.12 IEE
Institution of Electrical Engineers
Savoy Place
London WC2R 0BL
England
Tel: 44-171-240-1871

15.1.13 London Underground Limited
Scientific Services
Frank Pick House
Bollo Lane
Acton, London W3 8RP
England
Tel: 44-171-724-5600

DOCUMENT NO.	TITLE
RSE/STD/024 part 6	Cables for use on rolling stock ("LFII" types)
EME-SP-14-027-A1	2, 3 & 4 core SWA cable - low voltage, limited fire hazard (low smoke nonhalogenated), 2.5 mm ² to 300 mm ²
EME-SP-14-026-A1	Single core cable - insulated nonsheathed, limited fire hazard (low smoke nonhalogenated), 1.5 mm ² to 300 mm ²

**15.1.14 Ministry of Defense
Directorate of Standardization
Stan 1
Kentigern House
65 Brown Street
Glasgow G2 8EX
Scotland
Tel: 44-141-248-7890**

DOCUMENT NO.	TITLE
DEF.STAN 61-12 part 1	Cables, electrical (insulated flexible cords and flexible cables)
DEF.STAN 61-12 part 2	Cables, electrical (for power and lighting)
DEF.STAN 61-12 part 4	Cables, special purpose, electrical (subminiature electric cables)
DEF.STAN 61-12 part 5	Cables, special purpose, electrical, and cables, power, electrical (small multicore cables)
DEF.STAN 61-12 part 6	Polyvinyl chloride (PVC), polyethylene, or silicone rubber insulated equipment wires
DEF.STAN 61-12 part 8	PTFE insulated equipment wire
DEF.STAN 61-12 part 9	Cables, radio frequency (coaxial)
DEF.STAN 61-12 part 18	Equipment wires, low toxicity
DEF.STAN 61-12 part 25	Cables, electrical, limited fire hazard, up to conductor size 2.5 mm ²

**15.1.15 Ministry of Defense
Naval Engineering Standards
Block E
Foxhill
Bath BA1 5AB
England
Tel: 44-122-588-4884**

DOCUMENT NO.	TITLE
NES525	Requirements for electric cables, thin-wall insulated, limited fire hazard
NES526	Requirements for cables, electric, rubber insulated, limited fire hazard, sheathed for general services
NES527	Requirements for cables, electric, fire survival, high temperature zones and limited fire hazard, sheathed

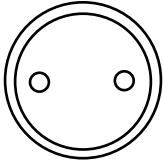

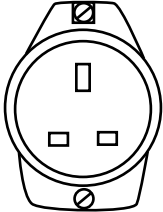
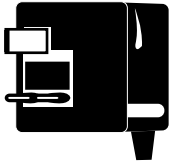
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15.2 Supply Voltage and Plug Configurations

Table 15.1–United Kingdom supply voltage

FREQUENCY (Hz)	VOLTAGE
50	230/400

Table 15.2–United Kingdom plug configurations

Jack	Plug	Description
		Ungrounded Eurocord CEE 7/16
		British Standard BS 1363