List of dated versions of standardized methods from the scope of accreditation

of Test Laboratory at Elkabel JSC Burgas

№	№ of Standard, amendment, year, name	Type of activity
1	**БДС EN 60811-100:2012** Electric and optical fibre cables. Test methods for non - metallic materials. Part 100: General (IEC 60811-100:2012)	This part 100 of IEC 60811 describes general requirements and considerations that are applicable to all the test methods given in the particular parts, unless otherwise specified.
2	**БДС EN 60811-201:2012+A1:2018+A2:2024** Electric and optical fibre cables. Test methods for non - metallic materials. Part 201: General tests. Measurement of insulation thickness (IEC 60811-201:2012/A1:2017/Amd2:2023)	Measurement of insulation thickness
3	**БДС EN 60811-202:2012+A1:2018+A2:2024** Electric and optical fibre cables. Test methods for non - metallic materials. Part 202: General tests. Measuring the thickness of non-metallic sheaths (IEC 60811-202:2012/A1:2017/Amd2:2023)	Measurement of thickness of non - metallic sheath
4	**БДС EN 60811-203:2012** Electric and optical fibre cables. Test methods for non - metallic materials. Part 203: General tests. Measurement of overall dimensions (IEC 60811-203:2012)	Measurement of overall dimensions
5	**БДС EN 60811-401:2012+A1:2018** Electric and optical fibre cables. Test methods for non - metallic materials. Part 401: Miscellaneous tests. Thermal ageing methods - Ageing in an air oven (IEC 60811-401:2012/A1:2017)	**4.1 a), b)** - Mechanical properties of insulation / sheath after ageing **4.1 c)** - Compatibility of cable components in thermal ageing
6	**БДС EN 60811-402:2012** Electric and optical fibre cables. Test methods for non - metallic materials. Part 402: Miscellaneous tests. Water absorption test (IEC 60811-402:2012)	**т. 4.3** - Water absorption of PVC insulation (electrical test)
7	**БДС EN 60811-404:2012+Corrigendum 2:2024** Electric and optical fibre cables. Test methods for non - metallic materials. Part 404: Miscellaneous tests. Mineral oil immersion tests for sheaths. (IEC 60811-404:2012)	Oil resistant of sheath at elevated temperature.
8	**БДС EN 60811-405:2012** Electric and optical fibre cables. Test methods for non - metallic materials. Part 405: Other tests. Testing of thermal stability of PVC insulations and sheaths. (IEC 60811-405:2012)	Thermal stability of insulation / sheath
9	**БДС EN 60811-406:2012** Electric and optical fibre cables. Test methods for non - metallic materials. Part 406: Miscellaneous tests. Resistance to stress cracking of polyethylene and polypropylene compounds (IEC 60811-406:2012)	Stress cracking resistance for PE sheath
10	**БДС EN 60811-409:2012**+Corrigendum 1:2023 Electric and optical fibre cables. Test methods for non - metallic materials. Part 409: Miscellaneous tests. Loss of mass test for thermoplastic insulations and sheaths. (IEC 60811-409:2012)	Loss of mass test of the isolation /sheath
11	**БДС EN 60811-501:2012+A1:2019+Corrigendum 1:2019+A2:2024** Electric and optical fibre cables. Test methods for non - metallic materials. Part 501: Mechanical tests. Tests for determining the mechanical properties of insulating and sheathing compounds (IEC 60811-501:2012 /A1:2018/Amd2:2023)	Mechanical properties of the insulation / sheath before ageing.
12	**БДС EN 60811-502:2012** Electric and optical fibre cables. Test methods for non - metallic materials. Part 502: Mechanical tests. Shrinkage test for insulations (IEC 60811-502:2012)	Shrinkage test for insulations at high temperature
13	**БДС EN 60811-503:2012+A1:2024** Electric and optical fibre cables. Test methods for non - metallic materials. Part 503: Mechanical tests.	Shrinkage test for sheaths at high temperature.

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	Shrinkage test for sheaths (IEC 60811-503:2012/Amd1:2023)	
14	**БДС EN 60811-504:2012** Electric and optical fibre cables. Test methods for non - metallic materials. Part 504: Mechanical tests. Bending tests at low temperature for insulation and sheaths (IEC 60811-504:2012)	Bending test at low temperature
15	**БДС EN 60811-505:2012** Electric and optical fibre cables. Test methods for non - metallic materials. Part 505: Mechanical tests. Elongation at low temperature for insulations and sheaths (IEC 60811-505:2012)	Elongation at low temperature
16	**БДС EN 60811-506:2012** Electric and optical fibre cables. Test methods for non - metallic materials. Part 506: Mechanical tests. Impact test at low temperature for insulations and sheaths (IEC 60811-506:2012)	Impact test at low temperature
17	**БДС EN 60811-507:2012** Electric and optical fibre cables. Test methods for non - metallic materials. Part 507: Mechanical tests. Hot set test for cross-linked materials (IEC 60811-507:2012)	Hot set test of insulation / sheath
18	**БДС EN 60811-508:2012+A1:2018+A2:2024** Electric and optical fibre cables. Test methods for non - metallic materials. Part 508: Mechanical tests. Pressure test at high temperature for insulation and sheaths (IEC 60811-508:2012/A1:2017/Amd2:2023)	Pressure test at high temperature for insulation and sheaths
19	**БДС EN 60811-509:2012 +A1:2018** Electric and optical fibre cables. Test methods for non - metallic materials. Part 509: Mechanical tests. Test for resistance of insulation and sheaths to cracking (heat shock test) (IEC 60811-509:2012/A1:2017)	Resistance of insulation and sheaths to cracking
20	**БДС 1133:89** Aluminum and aluminum-steel bare conductors	**p. 4.7** - Mass of conductor **Annex 2** - Electrical resistance and resistivity of conductor; Mechanical properties of conductor
21	**БДС 1986:82** Cables, wires and cords. Method for measuring the electrical resistance of insulation.	Electrical resistance and volume resistivity of insulation
22	**БДС 2374:82** Cables, wires and cords. Method for measuring the electrical resistance of conductors	Electrical resistance and resistivity of conductors
23	**БДС 2406:82** Cables, wires and cords. Stress test methods. High voltage test	**p. 1** - High voltage test of cables and/or cores **p. 1, 2** - Water absorption of PVC insulation.
24	**БДС 2581:86**+Amendment :1989+ Amendment 2:1990+ Amendment 3:1995+ Amendment 4:1997+Corrigendum 1:2023 Power cables for fixed installation with polyethylene and chemically crosslinked polyethylene insulation.	**p. 3.12** - Bending test. **p. 3.15** - Heating cycle test **p. 3.32** - Water penetration test
25	**БДС 6259:91+Amendment 1:1999** Cables, wires and cords. Methods for checking the construction and structural dimensions.	**p. 2.4** - Check of constructive dimensions of conductors **p. 2.6** - Checking the construction parameters and dimensions of the products. **p. 2.7.2.2** - Determining the thickness of a metal sheath. **p. 2.8** - Check on the performance and dimensions of steel tapes and wires armour and metal screen
26	**БДС 6927-85** Cables, wires and cords. Method for measuring the coefficient of dielectric losses of cables and wires.	Tan δ measurement
27	**БДС 7454:74** Cables, wires and cords. Methods for testing the	Mechanical properties of conductor

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	mechanical properties of conductors.	
28	**БДС 13382:83** Electrical equipment and devices. Method for measuring the characteristics of partial discharges.	Partial discharge test
2	**БДС 16651:87** Metal production. Methods for measuring deviations of the shape	**p. 4.6** - Measurement of ovality
30	**БДС 17002:89** Copper bare conductors.	**p. 3.5** - Mass of conductor **p. 3.8** - Mechanical properties of conductor
31	**БДС EN ISO 6892-1:2020** Metallic materials. Tensile testing. Part 1: Method of test at room temperature.	Mechanical properties of conductor.
32	**БДС EN 50182:2001+AC:2014** Conductors for overhead lines. Round wire concentric lay stranded conductors	**p. 6.4.2** - Conductors diameter **p. 6.4.4** - Lay ratio and direction of lay **p. 6.4.6** - Mass per unit length
33	**БДС EN 50189:2003** Conductors for overhead lines - Zinc coated steel wires.	**p. 11.3** - Stress at 1% extension **p. 11.4** - Tensile strength
34	**БДС EN 50395:2006+A1:2011** Electrical test methods for low voltage energy cables.	**p. 6** - Voltage test on completed cable **p. 7** - Voltage test on cores in water. **p. 8** - Insulation resistance test **p. 9** - Long term resistance of insulation to d.c. **p. 10.3** - Voltage test **p. 11** - Surface resistance of sheath
35	**БДС EN 50396:2006+A1:2011** Non - electrical test methods for low voltage energy cables.	**p. 4.1** - Measurement of insulation thickness. **p. 4.2** - Measurement of sheath thickness for circular cables **p. 4.3** - Measurement of sheath thickness for flat cables **p. 4.4** - Measurement of overall dimensions and ovality.
36	**БДС EN 60332-1-2:2006 +A1:2015+A11:2017+A12:2021** Test on electric and optical fibre cables under fire conditions. Part 1-2: Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame. (IEC 60332-1-2:2004)	Test for vertical flame propagation for a single insulated wire or cable
37	**БДС EN 60332-2-2:2006** Test for vertical flame propagation for a single small insulated wire or cable - Procedure for diffusion flame (IEC 60332-2-2:2004)	Test for vertical flame propagation for a single small insulated wire or cable
38	**БДС HD 605 S3:2020** Electric cables - Additional test methods.	**p. 2.1.1** - Measurement of insulation thickness. **p. 2.1.4.2** - Wires and tapes for concentric conductor or screen **p. 2.1.10.2; 2.1.10.5** - Irregularities of semi-conducting layers and insulation **p. 2.1.11.1** - Dimensions of cores. XLPE insulated cores for cables with rated voltages U_0/U 6/10 kV to 18/30 kV

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		p. 2.1.11.2 - Dimensions of cores. Ovalisation on adhering semi-conducting core screen **p. 2.1.13.2** - Conductor diameter **p. 2.2.1** - Measurement of Shore D hardness of PE sheath **p. 2.4.1.6** - Bending behaviour **p. 2.4.4.1** - Sheath shrinkage test **p. 2.4.9.3** - Water penetration test **p. 2.4.21** - Stress cracking test on PE sheath **p. 3.1.1** - Electrical resistance of conductors **p. 3.1.2** - Electrical resistance of armouring **p. 3.1.4** - Screen or concentric conductor special resistance test **p. 3.2.1** - Voltage test on complete cable **p. 3.2.2** - Voltage test on cores **p. 3.2.5** - Special four-hour voltage test **p. 3.3.1** - Insulation resistance test on insulated cores **p. 3.4** - Surface resistance of the cable oversheath **p. 3.8.1; 3.8.2** - Heating cycle test **p. 3.9.1** - Measurement of the electrical resistivity of the semi-conducting screens **p. 3.10** - Partial discharge test **p. 3.11** - Tan δ measurement
39	**БДС HD 620 S3:2023** Distribution cables with extruded insulation for rated voltages from 3.6 / 6 (7.2) kV up to and including 20.8 / 36 (42) kV	**part 10A p. 3.3.1.4; part 10C p. 3.3.1.4; part 10J p. 3.3.4.2** - Heating cycle test
40	**БДС HD 632 S3:2017** Power cables with extruded insulation and their accessories for rated voltages above 36 kV (Um = 42 kV) up to 150 kV (Um=170 kV)	**part 1 p. 9.3; 12.4.1 -** Voltage test **part 1 p. 10.5** - Measurement of electrical resistance of conductor and metal screen **part 1 p. 12.4.3 -** Bending test. **part 1 p. 12.4.5** - Tan δ measurement **part 1 p. 12.4.6** - Heating cycle voltage test **part 1 p. 12.4.9, Ann. D -** Resistivity of semi-conducting screens **part 1 Annex E -** Water penetration test
41	**БДС EN IEC 60228:2024** Conductors of insulated cables (IEC 60228:2023)	**Annex A** - Measurement of resistance
42	**БДС EN 60885-3:2015** Electrical test methods for electric cables. Part 3: Test	Partial discharge test

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	methods for partial discharge measurements on lengths of extruded power cables (IEC 60885-3:2015)	
43	**IEC 60468:1974** Method of measurement of resistivity of metallic materials	Routine method - Electrical resistance and resistivity of conductors, metal screen and armor
44	**IEC 60502-1:2021** Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 1: Cables for rated voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV)	**p. 15.2** - Electrical resistance of conductors **p. 15.3.1, 15.3.2 a), 15.3.3, 15.3.4, 15.3.5** - Voltage test **p. 16.6** - Measurement of constructive dimensions **p. 16.7** - Measurement of constructive dimensions **p. 17.2, 17.3** - Insulation resistance measurement at ambient temperature **p. 17.4** - Voltage test for 4 hours
45	**IEC 60502-2:2014 + AMD1:2024** Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 2: Cables for rated voltages of 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV)	**p. 16.2 -** Electrical resistance of conductors **p. 17.6** - Measurement of thickness of lead sheath **p. 17.7** - Measurement of armour wires and tapes **p. 17.9; 18.2.9** - Voltage test for 4 hours **p. 18.2.4** - Bending test **p. 18.2.6** - Tan δ measurement **p. 18.2.7** - Heating cycle test **p. 18.2.10, Annex D** - Resistivity of semi-conducting screens **p. 18.3.2; 18.3.3** - Insulation resistance measurement **p. 18.3.4 -** Voltage test for 4 hours **p. 19.24; Annex F** - Water penetration test
46	**IEC 60840:2020+COR1:2021+AMD1:2023** Power cables with extruded insulation and their accessories for rated voltages above 30 kV (Um = 36 kV) up to 150 kV (Um = 170 kV) - Test methods and requirements	**p. 9.3; 12.4.1 -** Voltage test **p. 10.5 -** Measurement of electrical resistance of conductor and metal screen **p. 10.7** - Measurement of thickness of metal sheath **p. 12.4.3** - Bending test **p. 12.4.5** - Tan δ measurement **p. 12.4.6** - Heating cycle test **Annex D** - Method of measuring resistivity of semi-conducting screens **Annex E** - Water penetration test
47	**IEC 61089:1991+A1:1997** Round wire concentric lay overhead electrical stranded conductors	**p. 6.6.1.3** - Cross-sectional area
48	**BS 215-1:1970** Specification for aluminium conductors and aluminium conductors, steel-reinforced for overhead power transmission. Aluminium stranded conductors	**Annex A** - Mechanical properties of of conductors; Mass of conductors; Electrical resistance and resistivity of conductors, metal screen and armour
49	**BS 215-2:1970** Specification for aluminium conductors and aluminium	**Annex A -** Mechanical properties of of conductors; Mass of conductors; Electrical resistance and resistivity

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	conductors, steel-reinforced for overhead power transmission. Aluminium conductors, steel-reinforced	of conductors, metal screen and armour
50	**BS 6004:2012+A1:2020** Electric cables. PVC insulated and PVC sheathed cables for voltages up to and including 300/500 V, for electric power and lighting	**p. 15.2** - Mean overall dimensions **Annex E** - Method of test for voltage withstand
51	**BS 6485:1999** PVC-covered conductors for overhead power lines	**Annex A.1** - High voltage test **Annex A.2** - Insulation resistance test
52	**BS 6622:2007** Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV. Requirements and test methods	**p. 17.8.2; 18.16 -** AC/DC voltage test on oversheath. **p. 20.3 -** Bending test. **p. 20.6** - Heating cycle test Annex **J -** Method for measurement of resistivity of extruded semi-conducting conductor screen and insulation screen
53	**BS 6724:2016** Electric cables – Thermosetting insulated, armoured cables of rated voltages of 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire – Specification	**Annex B.5 -** Armour resistance test **Annex H** - Test for shrinkage of oversheath on cable
54	**BS 7211:2012+A1:2020** Electric cables. Thermosetting insulated and thermoplastic sheathed cables for voltages up to and including 450/750 V for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire	**Annex E** - Method of test for voltage withstand
55	**BS 7912:2012+A2:2023** Power cables with XLPE insulation and metal sheath, and their accessories, for rated voltages from 66 kV (Um = 72.5 kV) to 132 kV (Um = 145 kV)	**p. 9.3, 12.11** - Voltage test **p. 12.5** - Bending test. **p. 12.9** - Heating cycle voltage test **p. 14** - Longitudinal water penetration type test on complete cables
56	**NF C 33-209:1996** Câbles isolés ou protégés pour réseaux d'énergie - Câbles isolés assemblés en faisceau pour réseaux aériens, de tension assignée 0,6/1 kV	**p. 6.3 -** Electrical resistance and resistivity of insulation and/or sheath **p. 6.6** - Voltage test
57	**GOST 2990:78** + Amendment № 1:1983 + Amendment № 2:1984 + Amendment № 3:1987 + Amendment:2010 Кабели провода и шнуры. Методы испытания напрежением	**p. 4.1** - Voltage test
58	**GOST 3345:76** + Amendment № 1:1983 + Amendment № 2:1989 Кабели провода и шнуры. Метод определения электрического сопротивления изоляции	Electrical resistance and resistivity of insulation
59	**GOST 7229:76** + Amendment № 1:1983 Кабели провода и шнуры. Метод определения электрического сопротивления токопроводящих жил и проводников	Electrical resistance and resistivity of conductors, metal sheath and armour
60	**GOST 12177:79** + Amendment № 1:1983 + Amendment № 2:1983 + Amendment № 3:1991 + Amendment № 4:1993 Кабели провода и шнуры Методы проверки конструкции.	**p. 3.4.7** - Measurement of insulation thickness

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61	**GOST 25018:81** + Amendment № 1:1983 + Amendment № 2:1989 Кабели, провода и шнуры. Методы определения механических показателей изоляции и оболочки	Mechanical properties of insulation / sheath before and after ageing

Last actualization:

Date: 12.11.2024

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