

Schedule of Accreditation
 Elsewedy Cables Laboratory (ECL-A1)
 Elsewedy Cables Egypt
 10th of Ramadan city, Industrial zone A1

Schedule No.: 211025B 1st Accreditation date: December 6, 2012 Issue No. (2): December22, 2016 Revision No. () Valid to : December5, 2020

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements	Standard Specifications / Techniques Used
Electrical Tests		
Insulated cables up to and including 450 / 750V	Voltage test:- insulated cables of rated voltages up to and including 450/750 V	IEC 60227-1 E 3.0:2007-10 IEC 60227-2 E 2: 2003 IEC 60227-3 E 2.1:1997 - AC Withstand voltage tester, Lanpotronics Model: KZT 10, SN:2006/002 (3phase transformer) - Digital frequency meter Model: FDM-3A, SN: 6054 - Digital thermo-hygrometer Model: Hygroplani1, SN: 60045581
Low Voltage Power Cables for rated voltage of 1 kV and 3 kV	- Voltage test for 4 hr - Impulse voltage	IEC 60502-1:E 2.1:2009 IEC 60230:1966 AC Withstand voltage tester, Lanpotronics Model: KZT 10, SN: 2006/002(3phase transformer) - Impulse voltage test system, High Volt IP 570/1400 M, S/N: 889 801/ 889 802 / 889 452 - Digital frequency meter Model: FDM-3A, S/N: 6054 - Digital thermo-hygrometer Model: Hygroplani1, S/N: 60045581

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Medium Voltage Power Cables for rated voltage from 6 kV up to 30 kV	<ul style="list-style-type: none"> - Bending test - Partial discharge test - Tan delta measurement - Heating cycle test - Impulse test - Voltage test 	<ul style="list-style-type: none"> - AC High voltage tester 350 kV Model: PHENIX,6TCD350-500X, S/N: 07-4314 - Partial Discharge calibrator, Model: CAL542, S/N:BB173A - Partial Discharge detector-400, Power diagnostics, Model: ICM Compact, S/N:426 - Heat cycle test set , PHENIX Model: LVTS 30-3000, S/N:07-4315 - Capacitance and power factor Measuring Bridge, Model: PRESCO, AG-3MOD, S/N: 100804 - Digital frequency meter Model: FDM-3A, S/N: 6054 - Measuring Tape, Model: BAKR, S/N: E019 - Digital thermo-hygrometer Model: Hygroplant1, S/N: 60045581 - Temperature Recorder Model: PHF51B11-E10YV-F, SN, A0K7241T - Impulse voltage test system, high Volt Model: IP 570/1400 M, S/N: 889 801/ 889 802 / 889 452

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High Voltage Power Cables for rated voltage from 30 kV up to 150 kV	<ul style="list-style-type: none"> - Bending test - Partial discharge test - Tan delta measurement - Heating cycle voltage test - Lightning impulse voltage test followed by a power frequency voltage test 	<ul style="list-style-type: none"> - AC High voltage tester 400 kV Model: HAEFELY, OT952, S/N: 082-874-02 - AC High voltage tester 350 kV Model: PHENIX, 6TCD350-500X, S/N: 07-4314 - Partial Discharge calibrator, Model: CAL542, S/N:BB173A - Partial Discharge detector-400, Power diagnostics, Model: ICM Compact, S/N:426 - Heat cycle test set , PHENIX Model: LVTS 30-3000, 07-4315 , S/N: 3000A - Capacitance and power factor Measuring Bridge, Model: PRESCO, AG-3MOD, S/N: 100804 - Digital frequency meter Model: FDM-3A, S/N: 6054 - Measuring Tape, Model: BAKR, S/N: E019 - Digital thermo-hyrometer Model: Hypoplan I, S/N: 60045581 - Temperature Recorder Model: PHF51B11-E10YV-F, SN, A0K7241T - Impulse voltage test system, high Volt Model: IP 570/1400 M, S/N: 889 801/ 889 802 / 889 452


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Schedule No.: 21102SB 1st Accreditation date: December 6, 2012 Issue No. (2): December 22, 2016 Revision No. (-) Valid to: December 05, 2020

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements	Standard Specifications / Techniques Used	Standard Specifications / Techniques Used
Extra High Voltage Power Cables for rated voltage above 150 kV up to 230 kV	<ul style="list-style-type: none"> - Bending test - Partial discharge test - Tan delta measurement - Heating cycle voltage test - Lightning impulse voltage test followed by a power frequency voltage test 	<ul style="list-style-type: none"> - AC High voltage tester 400 kV Model: HAEFELY, OT952, S/N: 082-874-02 - AC High voltage tester 350 kV Model: PHENIX, 6TCD350-500X, S/N: 07-4314 - Calibration Unit, Model: CAL542, S/N: BB 172 A - Partial Discharge calibrator, Model: CAL542, S/N: BB173A - Partial Discharge detector-400, Power diagnostics, Model: ICM Compact, S/N: 426 - Heat cycle test set, PHENIX Model: LVTS 30-3000, 07-4315, S/N: 3000A - Capacitance and power factor Measuring Bridge, Model: PRESCO, AG-3MOD, S/N: 100804 - Digital frequency meter Model: FDM-3A, S/N: 6054 - Measuring Tape, Model: BAKR, S/N: E019 - Digital thermo-hygrometer Model: Hyproplan1, S/N: 60045581 - Temperature Recorder Model: PHF51B11-E10YV-F, SN, A0K7241T - Impulse voltage test system, high Volt IP 570/1400 M, S/N: 889 801/ 889 802 / 889 452 	<ul style="list-style-type: none"> IEC 62067: 2011-0311 IEC 230: 1996 IEC 885-3: 1988

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Non electrical Tests - Insulated cables up to and including 450 / 750v - Power cables for rated voltage of 1 kV and 3 kV - Power cables for rated voltage from 6 kV up to 30 kV - Power cables for rated voltage above 30 kV up to 150 kV - Power cables for rated voltage above 150 kV up to 230 kV	Measurement of insulation thickness Measurement of nonmetallic sheath thickness Measurement of overall dimensions Mechanical properties before and after ageing: - Tensile strength - Elongation Hot set test	IEC 60811-201 E 1:2012 IEC 60811-202 E 1:2012 IEC 60811-203 E 1:2012 IEC 60811-501 E 1:2012 IEC 60811-401 E 1:2012 IEC 60811-507 E 1:2012 - Profile projector Model: PJ-A3000, SN. 590123 - Digital micrometer Model: 293-821, SN. 35043223 - Profile projector Model: PJ-A3000, SN. 590123 - 5 Measuring tapes SN. 30686, CN, DT-1, DT-2, DT-3, DT-4 - Digital caliper Model: CD-12-CP, SN. 1094192 - Digital micrometer Model: 293-821, SN. 35043223 - Tensile Machine Model: Z020, SN, D0723932/2015 with Extensometer Type: BTC-EXOPTIC.006, SN. 233080 - Load cell 1 kN type X force P, S/N: 764378 - Oven Model: UT6050HS, SN. 40759321 with laser pointer digital caliper, SN. 0000293 - Digital micrometer Model: 293-821, SN. 35043223 - Electronic balance Model: PM4600, SN. F91684 - Profile projector Model: PJ-A3000, SN. 590123

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<ul style="list-style-type: none"> - Insulated cables up to and including 450 / 750v - Power cables for rated voltage of 1 kV and 3 kV - Power cables for rated voltage from 6 kV up to 30 kV - Power cables for rated voltage above 30 kV up to 150 kV - Power cables for rated voltage above 150 kV up to 230 kV 	<p>Loss of mass</p> <p>Shrinkage test 1.0 – 3000 mm</p> <p>Heat shock test (Visual inspection)</p>	<p>IEC 60811-409 E 1:2012</p> <ul style="list-style-type: none"> - Oven Model: TK6060 SN. 40759031, 40759025, 40759033, 40759032 - Electronic balance Model: AE50, SN. F80482 - Digital micrometer Model: 293-821, SN. 35043223 - Oven Model: TK6060 SN. 40759031, 40759025, 40759033, 40759032 - Model: 1121000, SN.19659 - 5 Measuring tapes SN. 30686, CN, DT-1, DT-2, DT-3, DT-4 - Digital caliper Model: CD-12-CP, SN. 1094192 - Set of mandrels: (2, 4, 5, 6, 8, 9, 10, 13, 19, 40 mm) - Digital caliper Model: CD-12-CP, SN. 1094192 5 Measuring tapes SN. 30686, CN, DT-1, DT-2, DT-3, DT-4 <p>IEC 60811-502 E 1:2012</p> <p>IEC 60811-503 E 1:2012</p> <p>IEC 60811-509 E 1:2012</p>

Hany ElDesouki