



ACCREDITATION CERTIFICATE

LB-TEST-246

Emirates International Accreditation Centre

has accredited

DUBAI ELECTRICITY AND WATER AUTHORITY PJSC

DISTRIBUTION ASSET MANAGEMENT-CABLE LAB

Al Ruwayyah, Dubai-United Arab Emirates

In accordance with the requirements of

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 28/04/2022 to 27/04/2025

Initial Accreditation Date: 28/04/2022




CHIEF EXECUTIVE OFFICER
APPROVAL



Accreditation Scope
Electrical Testing
LB-TEST-246

Dubai Electricity and Water Authority PJSC

Distribution Asset Management-Cable Lab

Al Ruwayyah, Dubai-United Arab Emirates

Issue no.: 01

Date: 28-04-2022

Valid to: 27-04-2025

Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical Test: Resistance Measurement	MV Cables/LV power cables	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 from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV) Conductor Resistance Test/ Armor Resistance	IEC 60502 Part 2 Clause 16.2

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Date: 28-04-2022

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical Test: Resistance Measurement	MV Cables/LV power cables	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) Conductor Resistance Test/ Armor Resistance	IEC 60502 Part 1 Clause 15.2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical Test: Insulation Resistance measurement	MV Cables/LV power cables	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 from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV) Insulation resistance	IEC 60502 Part 2 Clause 18.3.2.1

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Electrical Test: Insulation Resistance measurement	MV Cables/LV power cables	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) Insulation resistance	IEC 60502 Part 1 Clause 17.1.1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical Test: High Voltage DC withstand test	MV Cables/LV power cables	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 from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV) Electrical - High voltage Direct Voltage	IEC 60502 Part 2 Clause 16.5

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical Test: High Voltage AC withstand test	MV LV Cables	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 from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV) Power frequency Withstand test	IEC 60502 Part 2 Clause 16.4

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical Test: High Voltage AC withstand test	MV LV Cables	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) Power frequency Withstand test	IEC 60502 Part 1 Clause 15.3

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical Test: Partial Discharge Measurement	MV Cables	Power cables with extruded insulation and their accessories for rated voltages from 1 kV ($U_m = 1,2 \text{ kV}$) up to 30 kV ($U_m = 36 \text{ kV}$) Part 2: Cables for rated voltages from 6 kV ($U_m = 7,2 \text{ kV}$) up to 30 kV ($U_m = 36 \text{ kV}$) Partial Discharge Measurement	IEC 60502 Part 2 Clause 16.3

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Type of Activity	Test Materials/Products	Test Name	Test Method
Electrical Test: Measuring Capacitance/ Tandelta	MV Cables	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 from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV) Capacitance /Tan delta measurement	IEC 60502 Part 2 Clause 18.2.6

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Type of Activity	Test Materials/Products	Test Name	Test Method
Non-Electrical Test: Dimension measurement	MV Cables	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 from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV) Thickness, Diameter.	IEC 60502 Part 2 Clause 17.5 Clause 17.7 and Clause 17.8

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Type of Activity	Test Materials/Products	Test Name	Test Method
Non-Electrical Test: Dimension measurement	MV Cables	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) Thickness, Diameter.	IEC 60502 Part 1 Clause 16.5 Clause 16.7 and Clause 16.8

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Type of Activity	Test Materials/Products	Test Name	Test Method
Non-Electrical Test: Thermal Properties	MV Cables	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 from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV) Hot set test	IEC 60502 Part 2 Clause 17.10

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Type of Activity	Test Materials/Products	Test Name	Test Method
Non-Electrical Test: Thermal Properties	MV Cables	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) Hot set test	IEC 60502 Part 1 Clause 16.9

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Non Electrical: Tensile Test	MV/LV cables	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 from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV) Mechanical/Tensile test	IEC 60502 Part 2 Clause 19

Accreditation History		
Issue no.	Details	Date
01	Granted accreditation from Emirates International Accreditation Centre 'Eiac'	28-04-2022