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Zertifiz. Nr. 01 140 020214



LABORATORIES OF EXTRA HIGH
VOLTAGE RESEARCH CENTER SECTOR
Km 27 Cairo- Alex. Desert Road
Report No.(295 /2014)
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TEST REPORT

REPORT No. (295/2014)

- **Report Date:** 30 / 12 / 2014
- **Place:**
 - Laboratories of Extra High Voltage Research Center.
 - Internal code : TO - AC - 14 - 04 - 26 - 01
- **Requirements:**
 - Loop type tests according to IEC 60840.
- **Standard Specification:**
 - IEC 60840 "Power cables with extruded insulation and their accessories for rated voltages above 30 kV ($U_m = 36$ kV) up to 150 kV ($U_m = 170$ kV).
- **Description of the Specimen :**
 - Loop systems, cable and accessories consist of the following:

I- 38/66 kV Power cable with the following specification:

- Type : 38/66 kV/CU/XLPE/LEAD/HDPE /1 x 1200 mm²
- No. of Phases : 1
- Insulation : XLPE
- Conductor Material : Copper + Swelling Powder
- Conductor cross-section : 1200 mm²
- Metallic sheath Material : Lead
- Over sheath Material : HDPE (ST₂)
- Sheath Color : Black
- Water Penetration Design : A barriers are included which prevents longitudinal water penetration (water blocking tape):
Along the outer surface of the conductor,
The gap between the outer surface of the insulation screen and the metallic



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