



LABORATORIES EXTRA HIGH VOLTAGE
RESEARCH CENTER
KM 27 Calro- Alex. Desert Road
Report No. (166/2021)
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TEST REPORT

REPORT No. (166 /2021)

- **CLIENT:** EGYPTIAN COMPANY FOR ADVANCED INDUSTRIES (ELSEWEDY SEDCO) - SUBSIDIARY OF ELSEWEDY ELECTRIC
- **Report Date:** 28/04 /2021.
- **Place:**
 - Extra High Voltage Research Center Laboratories
 - Internal code : TO – AC – 21– 03 – 07 - 02
- **Requirements:**
 - Tests for screened deadbreak separable connectors elbow according to IEC 60502-4.
- **Standard Specification:**
 - IEC 60502-4: Power cables with extruded insulation and their accessories for rated voltages from 1.0 kV ($U_m = 1.2$ kV) up to 30 kV ($U_m = 36$ kV)".Part 4: Test requirements on accessories for cables with rated voltages from 6 kV ($U_m = 7.2$ kV) up to 30 kV ($U_m = 36$ kV).
 - IEC 61442 :Test method for accessories for power cables with rated voltages from 6 kV ($U_m = 7.2$ kV) up to 30 kV ($U_m = 36$ kV)".
- **Description of specimen:**
 - Screened deadbreak separable connector (T-shape Elbow) installed on a power cable 18/30 kV, 3x400mm² **with the following specifications:**
 - Manufacturer : ELSEWEDY SEDCO/ELASTIMOLD EGYPT Subsidiary of ELSEWEDY ELECTRIC.
 - Model :455
 - Lug type : Compressed type Elbow lug
 - Material : EPDM Rubber.
 - Rated voltage (U_0/U) :18/30 kV.
 - Maximum voltage (U_m): 36 kV.
- **Description of the Equipment:**
 - High voltage reactor- 400 kV – 5000 kVA – 50 Hz – Type :(RSK) – Serial No. (204322/99). Certificate No :(216/23/2020)
 - PD Detector – Type: (TE 57). Certificate No(272/23/2020)
 - Impulse voltage generator 800 kV – 40 kJ – Type IP40/800M. Certificate No (269/23/2020)
 - Oven up to 300 °C- Type BINDER- Serial No.02-32772.Certificate No:(9/1812/2017)
- **Test Sample:**
 - Test sample was chosen under the responsibility of the client.

عبد

M. Khairy

