



### **ENERGYA POWER CABLES-ELSEWEDY HELAL**

## **Technical Department**

## Technical Offer For Triplex Cables IN Princable of IEC 60502-2 & NFC 33-226

Twisted cable 12 / 20 (24) KV with compacted circular stranded Plain Aluminum conductor, Extruded by semi conducting layer as conductor screen, XLPE insulated, Extruded by semi conducting layer as insulation screen (Stripabble type) Screened by AL FOIL, and extruded by colored Medium Density Poly Ethylene (MDPE) as an outer sheath

**General Information:** 

AL /XLPE/ MDPE Short Description: 12 / 20 (24) Voltage: ΚV

Stranded Aluminum Conductor according to IEC 60228 Class 2

Inner Semi Conductor: Extruded Inner Semi Conductor (Bonded Type)

Insulation / Temperature Cross Linked Polyethylene according to IEC 60502-2 / 90°C

Outer Semi Conductor: Extruded Outer Semi Conductor (Stripabble Type)

Semi Conductive Water Blocking Tape : Applied Screening Type : AL FOIL

## Phases are Identified by tapes

### Packing:

-Cable shall be supplied in lengths as indicated in technical schedule on wooden or steel reels up to the manufacturer

-Both ends of the cable shall be sealed to prevent the ingress of moisture during transportation -Each reel shall be marked with type, size and length of Cable, and weight.

### **Cable Marking:**

ENERGYA POWER CABLES-ELSEWEDY HELAL No. Core X Size MM2 12/20 KV AL/XLPE/MDPE 2021 Meter Marking

#### NoTE:

-This information shall be written on metallic tag nailed properly to the flange.

### Tests:

Routine tests generally to IEC 60502-2 are performed on the cables and test certificate will be supplied on request. Electrical Resistance of the conductors shall be tested on IEC 60228. Voltage Test: No breakdown of The insulation shall occur, The applied Voltage and duration will be as Per IEC 60502-2

Capacitance

(mF/Km)

Operating

Charging Curren

(A/Km)

# **Electrical Data:**

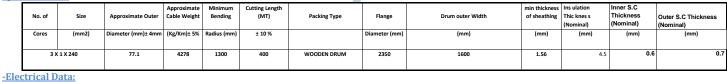
Maximum conductor operating temperature: 90 °C Maximum screen operating temperature: 80 °C Maximum conductor temperature during S.C: 250 °C Maximum Screen temperature during S.C: Laying conditions at trefoil formation are as be

100 °C.Cm/Watt -Soil thermal resistivity -Burial depth 0.5 m

20 °C 30 °C -Ground temperature Air temperature -Frequency 50 Hz

Resistance at 20 °C

# Specifications



(ohm/km)

Screen S.C.C

1 sec (KA)

Conductor S.C.C for

1 sec (KA)

ww.aljawad.ci

# (Ω/Km)

Size (MM2)

AHMED ELGENEDY Technical Design Engineer Laid in free

Current Rating

M.ADEL Senior Technical Design Enaineer

EE8/24/2021



### **Drawing Description**

Sheathing Material / Color: MDPE / BLACK

Inner Semi Conductor

XLPE Insulation

Outer Semi Conductor

Semi Conductive water blocking 6 AL foil

7 MDPE Sheath



Dielectric Losses (W/Km)