

Ref. To: 967-Kenya  
Date: 10/3/2020 1:51 PM

Technical Office - Special Cables Dep.  
EL SEWEDY CABLES

## Technical Offer For Cables Generally to IEC 60502-1

### General Information:

- Short Description: CU/PVC/OS/PVC
- Voltage: 0.6 / 1 (1.2) Kv
- Conductor: Flexible Plain Copper Conductor according to IEC 60228 Class 5
- Insulation / Temperature: PVC Insulation / 70°C
- Overall Shield Material / Overlap: AL/PET tape and tinned copper drain wire in a direct contact to the metallic side of the tape/20%
- Sheathing Material / Temp. / Color: PVC Sheathing Flame Retardant / 70°C / Grey

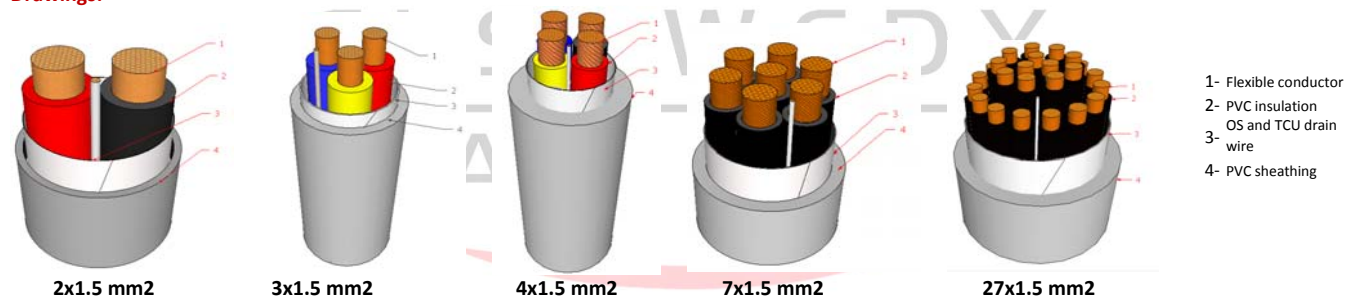
**Cable Marking:** = EL SEWEDY CABLES = No. of cores x size mm<sup>2</sup> CU/PVC/OS/PVC 0.6/1 Kv Manufacturing Year Meter Marking.

**Printing Type:** Ink Jet (Printing).

### Core Identification:

- 2 Cores: Red, Black
- 3 Cores: Red, Yellow, Blue
- 4 Cores: Red, Yellow, Blue, Black
- > 5 Cores: Black Coloured Cores With White Numbers
- Binder tape(s) and/or fillers may be used when necessary according to manufacturing process.

### Drawings:



\*Drawings are not to scale

### Packing:

- Cable shall be supplied in lengths as indicated in technical schedule on non returnable wooden reels up to the manufacturer.
- Both ends of the cable shall be sealed to prevent the ingress of moisture during transportation and storage.
- Each reel shall be marked with type, size and length of Cable, and weight.
- This information shall be written on metallic tag nailed properly to the flange.
- Cutting lengths is 500 m ± 5% on each reel for 19 cores cables and above, and 1000 m ± 5% for other cables.
- Metering on cable outer sheath will be started from "X" to "X+999" m for 1000m cutting lengths and to "X+499" m for 500m cutting lengths.

### Cable Properties:

- Outer sheath will be flame retardant according IEC 60332 Part 1.

### Tests:

- Routine tests generally to IEC 60502-1 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 be occurred, The applied Voltage and duration will be according to IEC 60502-1

### Specifications:

No. of Cores	Size (mm <sup>2</sup> )	Approx. Outer Diam. (mm)	Approx. Cable Weight (Kg/Km)	Min. Bending Radius (mm)	Max. Conductor DC Resistance at 20 °C (Ω/Km)	Conductor AC Resistance at Max. Operating Temp. and 50Hz (Ω/Km)
2	1.5	9.5	107	143	13.3	15.91
3	1.5	10.5	149	158	13.3	15.91
4	1.5	10.8	159	162	13.3	15.91
27	1.5	19.9	641	299	13.3	15.91
7	1.5	12.6	235	189	13.3	15.91

-The above data is approximate and subjected to manufacturing tolerance.