



## Filled Steel Wire Armoured Cables



### A. APPLICATION

Designed to use directly buried into ground. Cables having 0.5 mm. conductor diameter are used for distribution network, cables having 0.63 and 0.9 mm. conductor diameter are used for long distance network.

### B. CONSTRUCTAON

#### 1. Conductor

Solid annealed copper having the diameter of 0.5, 0.63 and 0.8 mm. (CCITT Yellow Book Vol. III-2-G.541 paragraph, IEC 28 ve ASTM B 3).

#### 2. Insulation

Dual insulation of cellular polyethylene covered with a solid skin layer of medium or high-density polyethylene compound (BS 6234 Type 03 - ASTM D 1248).

#### 3. Cable Assembly

Pairs each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Super-units having 50 pairs or 100 pairs are assembled in these units.

#### 4. Filling Compound

The water resistant filling compound is applied to the air spaces within the cable core to provide the water-proofness.

#### 5. Core Covering

A non-hygroscopic dielectric plastic tape having suitable overlap is applied longitudinally or helically over the cable core.

#### 6. Flooding Compound

Sufficient amonut of flooding compound shall be applied between the core covering material and screen.

#### 7. Screen (Shield)

A flat aluminium foil coated with polymer on both sides is applied longitudinally over the core covering as screen.

#### 8. Inner Jacket (Inner Sheath)

Black liner-low density or medium-density polyethylene compound (acc. to ASTM D 1248) is extruded over the screen.

#### 9. Armour

Sufficient number of round galvanized steel wires (R-wire) is applied over the inner jacket to improve the mechanical strength of the cable. Special type of water-proofness tape or flooding compound shall be applied the interfaces between the armour and both jackets (inner and outer).

#### 10. Outer Jacket (Sheath)

Black linear-low density or medium-density polyethylene compound (acc. to ASTM D 1248) is extruded over the armour.

### 11. Identification Tape

A suitable tape, durably marked with the manufacturer's name, year of manufacture and type of cable, is placed under the core covering. Alternatively, these details may be printed on the outside of jacket.

### 12. Length Marking

Sequentially numbered length markings are located at alternate 1 meter intervals on the outside of the jacket.

Conductor Diameter in mm	Number of Pairs	Overall Diameter in mm	Approx Net Weight (Kg/Km)	Drum Length (m)
0.5	2	9.9	180	1000
0.5	5	11.7	244	1000
0.5	10	12.5	292	1000
0.5	20	15.2	429	1000
0.5	30	17.1	596	1000
0.5	40	18.2	683	1000
0.5	50	20.0	876	1000
0.5	100	25.0	1333	1000
0.63	2	10.5	205	1000
0.63	5	12.7	296	1000
0.63	10	13.8	357	1000
0.63	20	17.9	642	1000
0.63	30	20.3	883	1000
0.63	40	21.6	1008	1000
0.63	50	23.0	1152	1000
0.63	100	29.2	1801	1000