

CHAPTER: 05

Overhead Service Lines → Ch - 05

Components of service lines →
Conductors : → Aluminium Conductors of diff types and sizes are used for drawing overhead lines, whether they are HT or LT lines.

AAC - All Aluminium Conductors : → This type of conductor is made up of one or more strands of hard drawn 1350 aluminium alloy. It is used in Low & high voltage Overhead line, where spans are usually short but high conductivity is required.

ACSR - Aluminium Conductors Steel Reinforced : → It is a type of high-capacity, high-strength stranded conductors typically used in Overhead power lines. Its excellent conductivity, low weight and low cost.

AAAC : → All Aluminium Alloy Conductors → These conductors are made of high strength aluminium-magnesium-silicon alloy. These conductors are designed to get better strength to weight ratio and offer improved electrical properties, excellent sag-tension characteristics and superior corrosion resistance when compared with ACSR.

Cables : → Electrical Cable and wires are considered as a same thing, in fact they are quite different.

Bearer Wire:

Bearer Wires shall be described either in length or weight stating Cross Sectional Area in square millimetres.

→ Metallic bearer wire used for supporting insulated wire of low and medium voltage overhead lines should be efficiently earthed or insulated.

Lacing Rod:

→ Lacing rod to help apply strapping underneath pallets.

→ This tool slides into strap dispensers to easily and quickly feed strapping underneath large loads.

Aerial Fuse:

→ It is used to every field of constructions either a house or pole or any commercial buildings required this fuse.

→ It act as a cut protectors which control the flow of electricity. It's a stabilizers for the consumption of a buildings.

Service Support:

→ The different types of structures used for supporting the Overhead lines are wires, such types of structures are called line supports.

→ Also maintained the specified ground clearance. These clearance are decided by the electrical and mechanical considerations.

Energy Meters :-

- The meter which is used for measuring the energy utilizes by the electric load is known as the energy meter.
- It is used in domestic and industrial AC Ckt for measuring the power consumption.
- The meter is less expensive and accurate.

Energy Meter Box :-

- For billing purposes, electric utilities use electric meters installed at customers' land to measure electric energy delivered to their customers.
- Every home or office contains electric meter and the electric meter are usually placed in the meter box.
- The meter box is usually mounted on the wall of the premises.