

Catenary Wires and Conductors used in Railway Electrification Manufacturing Plant

Description:

Catenary Wires and Conductors used in Railway Electrification Manufacturing Plant. Growing & Best Industry for Starting a Business.

[Catenary wire](#) (also called a messenger wire) has closely spaced droops which support the particular contact wire. The messenger (or catenary) wire has to be both strong and have good conductivity. They used multi-strand wires (or cables) with 19 strands in each cable (or wire). Copper, [aluminium](#), and/or steel were used for the strands. All the 19 strands might be of an equivalent metal or some strands might be of steel for strength with the remaining strands of aluminium or copper for conductivity. Another type seemed like it had all copper wires but inside each wire was a steel core for strength. The steel strands were galvanized except for better corrosion protection they might be coated with an anti-corrosion substance.

The [Catenary wire](#) comprises 19 strands of cadmium [copper](#), each strand of 2.10 mm dia, with overall dia of 10.5 mm having about 80% conductivity and 65 sq. mm cross-sectional area. The contact wire is a solid hard drawn grooved electrolytic. Copper of 12.24 mm dia and 107 sq. mm cross-sectional area. The total current carrying capacity of both wires is 600 Amps. The condemning size of contact wire is 8.25 mm.

Keywords: #catenarywires #RailwayElectrification #overheadcatenary #catenary #railway #MessengerWire #DetailedProjectReport #businessconsultant #BusinessPlan #feasibilityReport #NPCS #Startupbusinessideas #projectconsultancy #businessopportunity #BusinessFeasibilityStudies #BusinessFeasibilityStudy

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