

# Electrical Insulators in Overhead Power Systems

Category: Equipment

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Electrical insulators are fundamental safety components in overhead transmission and distribution networks, keeping high-voltage conductors mechanically supported while blocking dangerous leakage currents. This article explains the main types of electrical insulators—disc, glass, pin, suspension, strain, post, shackle, egg, railway and precipitator—and compares their materials, voltage ratings, and ideal applications for modern power systems.