



# The Complete Guide on ACSR Conductors: Types, Properties, and its Advantages



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Conductors are physical medium that carries electrical energy from one place to another place. The slightest conductivity and tensile strength are the most important factors for transmission and distribution systems. Earlier, for energy transmission copper conductors were utilized, but now, they have been replaced by the stranded hard drawn aluminium wires to improve the tensile strength, conductivity, and efficiency. Aluminium conductors are portable, economical in design, and also have a low cost. Different types of Al conductors are used these days including AAC, ACSR, AAAC, and ACAR.

**Definition:** ACSR stands for Aluminium Conductor Steel Reinforced. A strong stranded conductor consisting of one or more layers of hard-driven aluminium wire with a galvanized coated steel core. These conductors are primarily used in the distribution and transmission lines due to their high tensile strength, economical design, lightweight with good properties, and suitable voltage overhead lines. Also, the conductivity of this type of conductor is higher than that of copper conductors.

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