

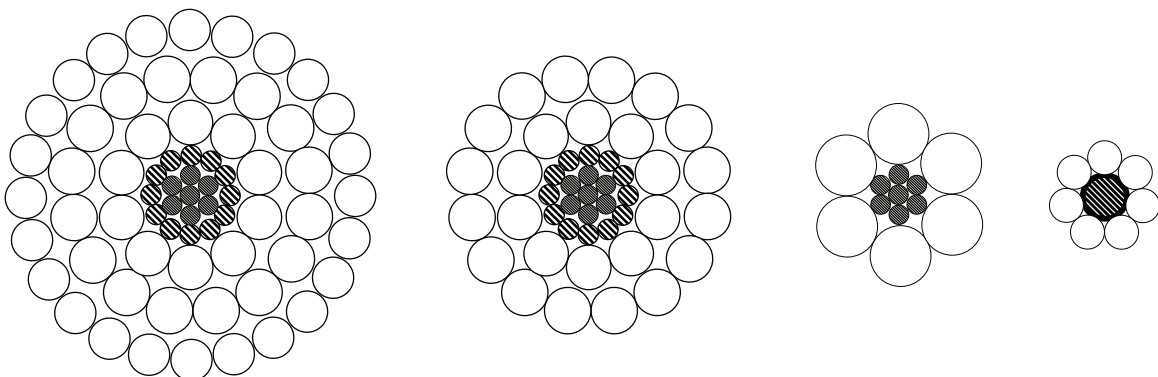
OVERHEAD CONDUCTORS

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ACSR has long been the backbone of overhead transmission and distribution systems. It has altogether replaced older types of overhead conductors made of copper, which are now a days used only to meet specific demands.

ACSR offers optimal strength for line design. It consists of Aluminium Conductor stranded around a core made of steel wires of high tensile strength. Variable steel core stranding enables desired strength to be achieved without sacrificing ampacity. These conductor are "bare", meaning that there is no insulation or jacket covering the conductor.



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In order to obviate steel oxidation (rusting) owing to weather, a coating of non-oxidizing grease is normally applied to steel cores. One or more layers of aluminium wires can, if required, be supplied partially or fully greased.

Conductor used in low voltage networks are all aluminium conductors (AAC).

The bare aluminium and ACSR conductors listed vide catalogue Bare conductors are suitable for installation in all practical spans on transmission towers, ranging from long distance EHV transmission lines to sub-service spans at distribution or utilization voltages.

The choice of conductor size, type and strength should take into account factors such as electrical load, voltage regulation, corona losses, ice and wind loading, extreme temperatures and vibration. In case any assistance is needed for evaluation of these factors as they apply to specific installations, please do not hesitate to contact our marketing division.

Hard drawn Bare Copper conductors (HDBC), PVC covered hard drawn copper conductors (HDBC/PVC) are used for special applications.

Soft Drawn Bare Copper conductors (SDBC) are used for earthing purposes.