



CONDUCTORS & CABLES

QUALITY | DURABILITY | INNOVATION

COMPANY'S OVERVIEW

Established in 1998 in VKI Area, Jaipur, Rajasthan, Sagar Industries is a premier, ISO 9001:2015, 14001:2015, and 45001:2018 certified company specializing in the manufacturing of high-quality Transmission & Distribution Conductors (AAC, AAAC, ACSR, and AL 59), Aerial Bunched Cables, and XLPE/PVC Armoured & Unarmoured Power Cables.

At Sagar Industries, we are committed to quality, innovation, and customer satisfaction. We leverage state-of-the-art technology and advanced manufacturing processes for insulation, pair screening, cable laying, comprehensive screening, inner sheathing, armoring, outer sheathing, final testing, and packaging — ensuring

that our conductors and cables are tailored to meet diverse customer requirements.

With a customer-centric approach, we meticulously oversee every stage of production—from the procurement of raw materials to the final dispatch of finished goods. Our unwavering focus on precision, durability, and compliance enables us to meet the evolving demands of the industry while upholding the highest quality standards.

Sagar Industries stands as a trusted name for the conductors & cables in the power & energy sector, delivering cutting-edge solutions that drive efficiency and excellence in transmission & distribution networks across the country.



MISSION AND VISION

At Sagar Industries, we are driven by a relentless pursuit of excellence and market leadership in every aspect of our business. Our vision is to be the “Natural Choice” for our customers by consistently delivering exceptional quality, innovation, and reliability. Through a customer-centric approach and a commitment to exceeding expectations, we aspire to build lasting relationships and establish ourselves as a trusted industry leader.

We believe that true success lies in accountability, dedication, and customer satisfaction. At Sagar Industries, we take personal responsibility for honoring our commitments, ensuring that every product and service we deliver upholds the highest standards of quality and performance. By continuously evolving, embracing innovation, and prioritizing customer needs, we strive to create value, drive growth, and set new benchmarks of excellence in the industry.



Powering Trust Across Industries

At Sagar, we take pride in delivering high-quality cables and conductors that meet the diverse needs of industries worldwide. Our commitment to excellence has earned us the trust of leading organizations across various sectors. Here are some of the names who rely on us for their critical infrastructure needs:

OUR PARTNERS



Together, we are building a connected future with reliability, innovation, and uncompromising quality at its core.

Powering the Renewable Transition

At Sagar, we're proud to support India's clean energy growth. Our conductors and cables help power solar, wind, and renewable infrastructure projects nationwide. Here are some of the renewable energy organizations who partner with us:

OUR RENEWABLE ENERGY PARTNERS



Uvm Aditya Renewable

**PURVAH
GREEN**

WAAREE®
One with the Sun

ReNew
POWER



BluPine
Energy



OLITEC



svaryu
ENERGY

TORRENT
POWER



ampin [®]
energy

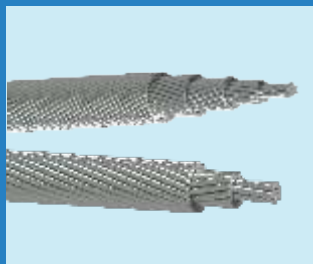
Together with our renewable energy partners, we are helping build a cleaner, more sustainable power infrastructure for India.

OUR PRODUCTS RANGE

1. AAC Conductor



2. AAAC CONDUCTOR



3. ACSR CONDUCTOR



4. AL 59 CONDUCTOR



5. AERIAL BUNCHED CABLES



6. XLPE POWER CABLE



7. PVC POWER CABLES



7. XLPE / PVC SERVICE CABLE

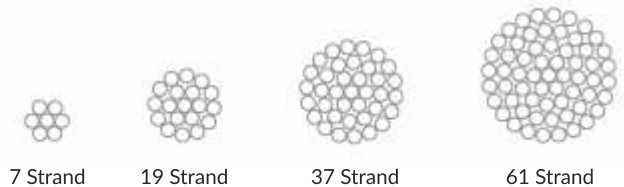


1. AAC Conductor

These conductors are formed by several wires of aluminium, stranded in concentric layers. All the wires have the same nominal diameter. Most common constructions consist of 7, 19, 37 and 61 wires.

Application

- 2 Busbars at H.V. Substations
- 2 L.V. distribution lines
- 2 Conductors for insulated cables (compacted)

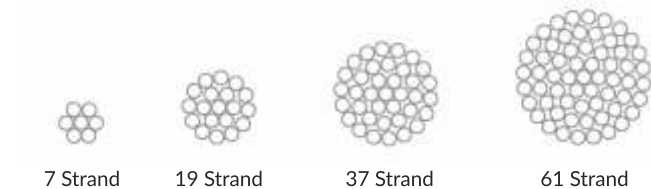


2. AAAC CONDUCTOR

These conductors are formed by several aluminum magnesium silicon wires stranded in concentric layers. All the wires have the same nominal diameter. Most common constructions consist of 7, 19, 37 and 61 wires.

Application

- 2 Busbars at H.V. Substations.
- 2 H.V. overhead lines.



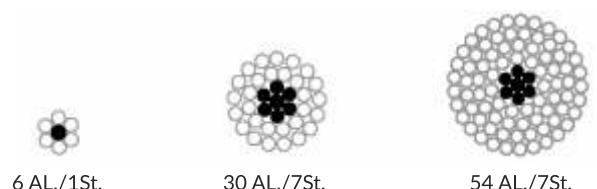
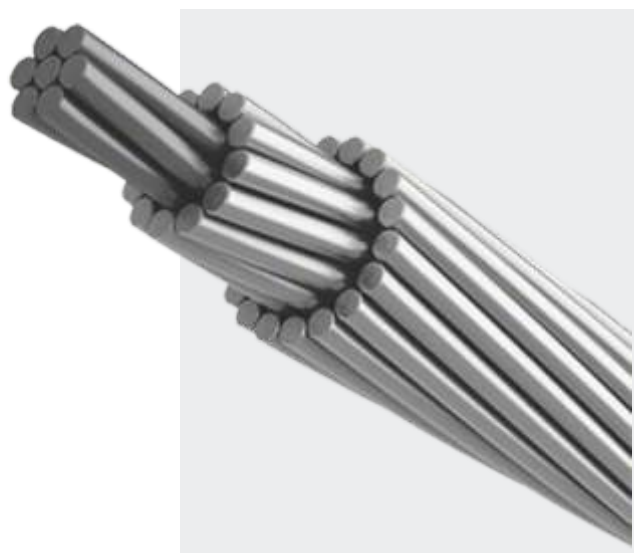
3. ACSR CONDUCTOR

These conductors are formed by several wires of aluminum and galvanized steel, stranded in concentric layers.

The wire or wires which form the core, are made of galvanized steel and the external layer or layers, are of aluminum. Galvanized steel core consist normally of 7, 19, 37 and 61 wires. The diameters of steel and aluminum wires can be the same, or different.

Application

- Overhead transmission and distribution lines medium, high and extra high voltage.

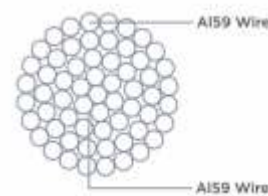


4. AL 59 CONDUCTOR

These are homogenous alloy conductors of Aluminium + Magnesium + Silica Alloy type. These conductors have a conductivity of 59% and hence have lesser DC resistance and higher current carrying capacity.

Application

AL59 alloy conductors are used in power transmission and distribution lines for a wide voltage range (low to ultra-high voltage). These conductors have higher current carrying capacity and lower losses due to DC resistance. AL59 conductors have high corrosion resistance, making them most suited for deployment in coastal regions.



5. LT AERIAL BUNDLED CABLES

LT Aerial bundled cables (simply ABC) are overhead power lines using several insulated phase conductors bundled tightly together, usually with a bare neutral conductor. This contrasts with the traditional practice of using un-insulated conductors separated by air gaps. This variation of overhead power lines utilizes the same principles as bundled conductors, except that they are closer together to the point of touching but each conductor is surrounded by an insulating layer (except for the neutral line).

Application

2 LV distribution lines.

Advantage

LT Aerial bundled cables (simply ABC) are overhead power lines using several insulated phase conductors bundled tightly together, usually with a bare neutral conductor. This contrasts with the

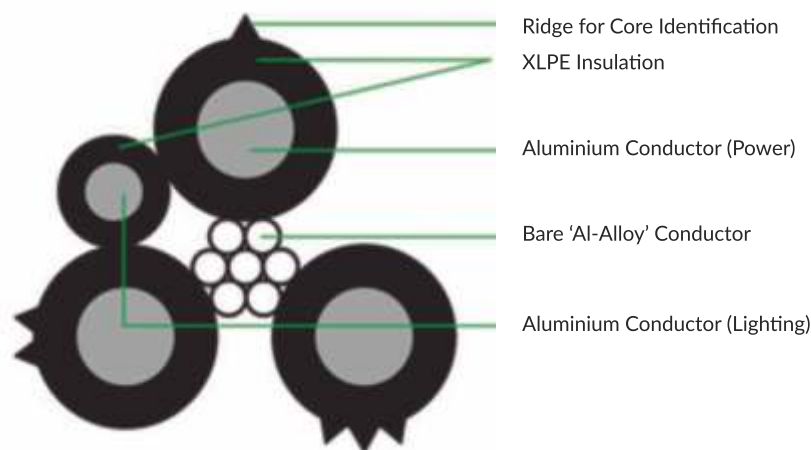
traditional practice of using un-insulated conductors separated by air gaps. This variation of overhead power lines utilizes the same principles as bundled conductors, except that they are closer together to the point of touching but each conductor is surrounded by an insulating layer (except for the neutral line). Improved reliability in comparison with both bare conductor overhead systems and underground systems. Insulated conductors prevent accidental contact

and supply can be maintained temporarily in the event of a suspension system collapse. Can be installed in a narrower right of way. Ease of erection and stringing, less labor intensive, less construction resources needed. Can stand in close proximity to trees/buildings and will not generate sparks if touched.

Applicable Standards

IS-14255, IS 8130, IEC 60502 etc.

Construction:



6. XLPE POWER CABLE

Application

XLPE Insulated Electric Power Cables are suitable for power transmission and distribution systems at rated voltage up to 15kV. For fixed installation in the open air, direct burial in cable ducts. Steel tape armoured (STA) cables can withstand mechanical force but not allow to bear large pulling tensile. Steel wire armoured (SWA) cables can withstand mechanical force and pulling tensile.

Rating voltage: 0.6/1kV, 1.8/3kV, 3.6/6kV, 6/6kV, 6/10kV, 8.7/10kV, 8.7/15kV

Minimum Bending Radius

unarmoured cable: 20D (single core) 15D (multi core)

armoured cable: 15D (single core) 12D

(multi core).

Construction:

Conductor: Annealed copper or tinned copper

-Round solid copper wire IEC 60228 Class 1(RE)

-Round stranded copper wire IEC 60228 Class 2(RM)

-Sector-shaped stranded copper wire IEC 60228 Class 2(SM)

-Round flexible copper wire IEC 60228 Class 5

Conductor screen: semi-conducting tape or semi-conducting extruded

Insulation: XLPE

Insulation screen: Semi-conducting tape or semi conducting extruded or / and

copper tape.

Inner covering: Filling and tape wrapped or Extruded

Metallic Armor: Galvanized steel tape (STA) or Galvanized steel wire(SWA).

Sheath: PVC or PE



7. LT PVC POWER CABLES

LT Power cable Insulated - higher current rating and emergency overload rating; Superior short circuit rating; Low dielectric loss much better insulation resistance; Resistant to chemical & corrosive gases etc.; Better resistance to surge currents much longer life of the cables.

LT Power cable PVC Insulated High dielectric strength & resistance to D.C. voltage effects, High mechanical strength & resistance to abrasion, vibration & ageing: Resistant to most acids, alkalies, to temporary contact with solvents, oils and liquid fluids: Flame retardant.

Applications

LV distribution system.

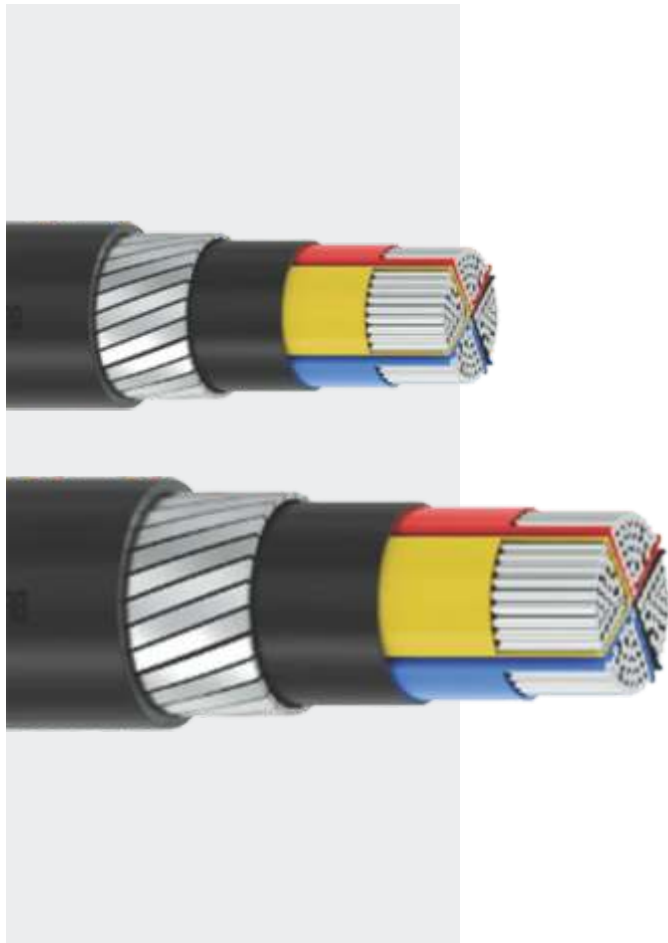
Applicable Standards

LT Power cable PVC Insulated: IS 1554/Part 1/1988 LT Power cable Insulated: IS 7098/Part 1/1988

Construction

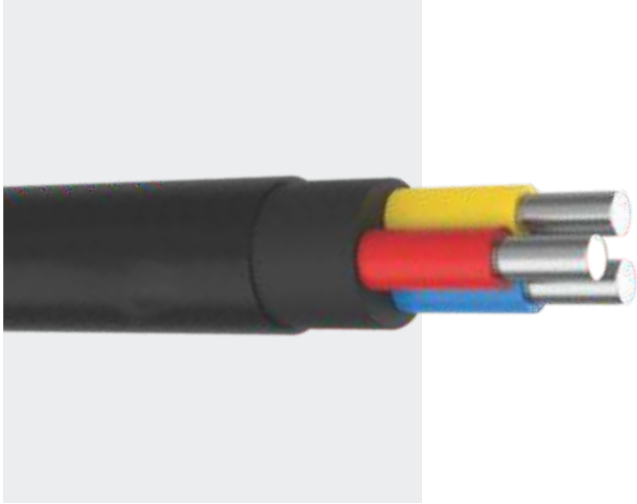
1. Conductor 2 IEC 60228 specifies four different classes of conductors; classes 1, 2, 5 and 6. Power and control cables normally have conductors of class 1 (solid conductors) or class 2 (stranded conductors).

2 Conductor forms: circular solid, circular stranded, sector shaped solid, sector



shaped stranded

2.The insulating materials for power and control cables are poly vinyl chloride (PVC)



8. XLPE/ PVC SERVICE CABLES

Single and multicore PVC-insulated cables for the application of local area networks. Used as lighting and power distribution cable. Installed in areas where severe mechanical stress is avoided. Can be laid indoors, outdoors, buried, or in cable trenches.

Specially used for power supply. Reduction of weight due to aluminium conductor.



ESTEEMED GOVERNMENT ENTITIES





**(AN ISO 9001: 2015, 14001: 2015 & ISO 45001:2018
CERTIFIED COMPANY)**

Corporate Office: A-129 (I), Road No. 9 (D), V.K.I. Area, Jaipur, Raj.- 302013

Works Unit I: A-128 (A), Road No. 9 (D), V.K.I. Area, Jaipur, (Raj)-302013

Works Unit II: SP 1, Industrial Area, Reengus, Sikar, (Raj)-332404

 **+91 141 4064876 | +91 80587 93358**

 **sales@sagars.in | inquiry@sagars.in**

 **www.sagars.in**