



ASHIRVADCAB®

PVC AND XLPE INSULATED
WIRES AND CABLES

PRODUCT CATALOGUE



YOUR SAFETY OUR PRIORITY

Dear Valued Customers,

As the Chairman and Managing Director of **ASHIRVADCAB®**, it gives me immense pride and gratitude to reflect on our journey over the past two decades. From our humble beginnings to becoming a trusted name in wire and cable solutions, our mission has remained unchanged—to deliver world-class quality, reliability, and service that empowers your success.



We believe that excellence is not an act, but a habit. We have consistently invested in advanced technology, top-tier manufacturing processes, and most importantly, people—our team and our customers. Our growth is a testament to the trust you've placed in us, and we never take that for granted.

In a world that's constantly evolving, one thing remains constant: our unwavering commitment to your safety. Guided by our motto, "**YOUR SAFETY OUR PRIORITY**", we continue to push boundaries, raise standards, and strive for nothing less than perfection.

Thank you for making us a part of your journey. With your continued support, I am confident that **ASHIRVADCAB®** will not only meet but exceed expectations in the years to come.

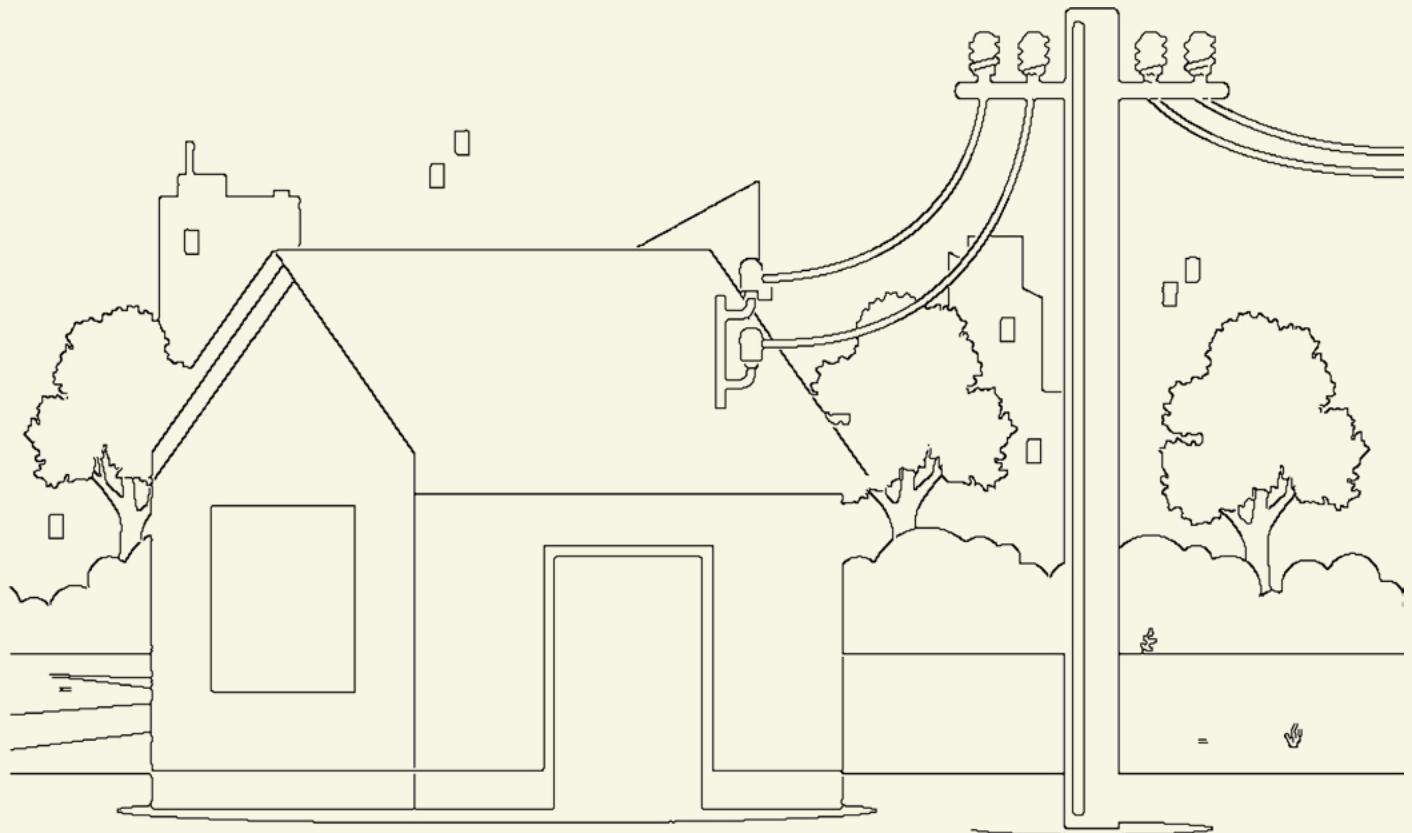
Together, let's build a safer and stronger future.

Warm regards,

Sushil Kothari

CMD

ASHIRVADCAB



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ASHIRVADCAB®, was incorporated in the year 2001 as one of the leading manufacturer of domestic wires and cables, heavy duty industrial cables and transmission cables. We manufacture a wide ranges of wires and cables such as *Domestic and FR-LSH wires and cables, Underground cables, Power cables, Control cables, Aerial Bunch cables, Submersible cables, Instrumentation cables, Co-axial cables, Telephone cables, EPR/Silicone high temperature cables, Welding cables, Mining cables, LAN cables, Solar cables and XLPE insulated cables*. We supply any range of customized wires and cables as per standard. With the pan India presence, our team is committed to produce quality products ensuring safe and reliable wires and cables for the Indian as well as International markets.

The company has acquired a number of test standards and quality certifications such as IS 694, IS 7098, IS 14255 and IS 1554. We have in-house testing laboratory with various testing equipment which contribute towards quality products. We have modernized production facilities and stringent quality control measures at all levels to produce quality products which is also customized as per Indian and International customer requirements. Which aims to overall customer satisfaction.



Mr. Sushil Kothari, CMD of **Arihant Cablez Corporation**, is a visionary leader who founded the **ASHIRVADCAB®** brand in 2001. With over two decades of dedicated involvement, he has played a pivotal role in shaping the brand into a symbol of safety and trust in the wires and cables industry. His unwavering focus on enhancing product and service quality, safety, and value has been instrumental in establishing **ASHIRVADCAB®** as a reliable name in the market. Under his guidance and leadership, the company has achieved significant milestones and continues to grow, reaching new heights of success.

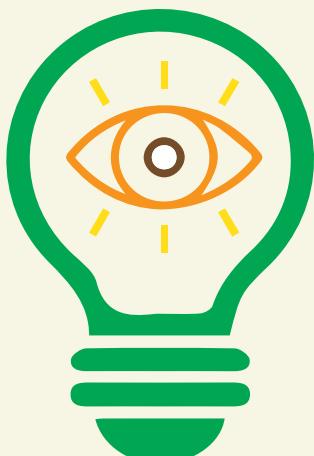
VISSION AND MISSION

ASHIRVADCAB aspires to be trusted leader in providing safe, sustainable, and innovative wires and cables solutions that power progress and connect lives. Our one of the core purposes is to light up every home and power every dream with safe, reliable, and long-lasting cables.

Our mission is to manufacture and deliver superior-quality wires and cables that exceed industry standards, ensuring safety, durability, and performance. We strive to empower residential, commercial, and industrial sectors through reliable products, continuous innovation, and a commitment to customer satisfaction.

Our moto is:

“YOUR SAFETY OUR PRIORITY”

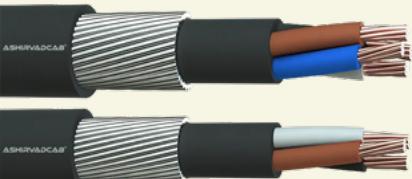




Domestic & FR-LSH
wires and cables

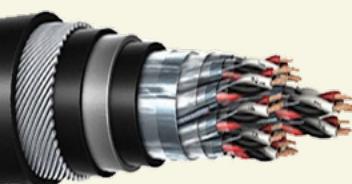
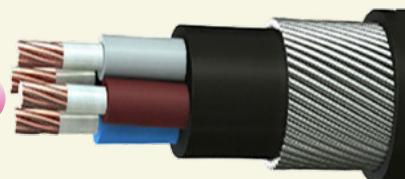


Underground
cables



Power cables

Control cables



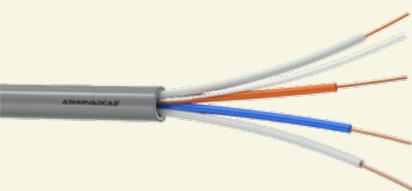
Instrumentation cables

Aerial Bunch Cable



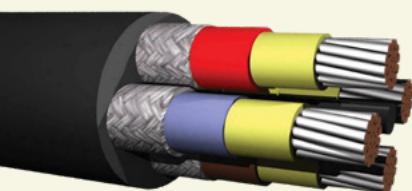
Submersible cables

Co-axial cables



Telephone Cables

EPR/Silicone &
Welding Cables



Mining Cable

LAN Cables



Solar cables

Railway signaling cable



We manufacture high quality, safe and reliable cables following the IS and as per the customer requirements. After each step of process, our quality team performs quality check. A general overview of the process of manufacturing of wires and cables as per IS may be outlined as;

CONDUCTOR

The most acceptable metals for conductors are copper and aluminium due to their higher conductivity and ductility.

As copper has got higher affinity for sulphur, it corrodes in the atmosphere where sulphur fumes are present. In these conditions tinned copper conductors are used. Aluminium oxide film which is always present on Aluminium conductor surface acts as barrier and it protects the Aluminium conductor from corrosion in fumes laden atmosphere.

CONDUCTOR CONSTRUCTION

The most economical construction for conductor is solid conductor i.e. conductor is made of one single wire. As the area of conductor increase, solid conductor becomes more stiff and hence difficult to handle. In this case stranded construction is adopted. Here the conductor is made of number of strands. The strands are arranged in spiral layers in 1+6+12+18+... formations. This construction provides more flexibility. Where crimping of lugs are required, the conductor has to be of stranded construction only.

To economise in insulating material, weight and overall diameter, shaped conductors are employed in bigger sized cables. Here the stranded conductor is shaped in to a segment of a circle so that when all the cores are laid, they form a complete circle. These segments are identified as 2 Core – 180°, 3 Core – 120°, 4 Core – 90° and 3.5 Core – 100°/60°. IS 1554 permits solid conductor construction upto 10 mm² in Aluminium and upto 6 mm² in copper. It permits the use of shaped conductors for sizes from 16 mm² onwards.

INSULATION

The PVC covering over conductor is called insulation and is provided by extrusion process only. The insulated conductor is called core.

IS 1554 permits two types of PVC insulation as follows:

1. Insulation with TYPE A PVC compound as per IS 5831 which is suitable for 70 °C continuous operation.

2. Insulation with TYPE C PVC compound as per IS 5831 which is suitable for 85 °C continuous operation.

The following colour code is used for identification:

Single Core: Red, Black, Yellow or Blue.

Two Cores: Red and Black

Three Cores: Red, Yellow and Blue

Three & Half: Red, Yellow, Blue and Reduced neutral Black

Four Core: Red, Yellow, Blue and Black.

Five Core: Red, Yellow, Blue, Black, & Grey

Six Cores: Two adjacent cores.

Blue and Yellow

(Counting and direction core)

And remaining Grey in each layer. OR By printing numbers on each core.

LAYING UP

The cores are laid up with suitable lay. The final layer always has a right hand lay i.e. if you look along the cable, the cores move to your right hand.

INNERSHEATH

Innersheath is provided over the laid up cores. It is provided to give circular shape to the cable and it provides bedding for the armouring.

IS 1554 permits following two methods of applying the innersheath of any thermoplastic material i.e. PVC, Polyethylene, etc.

a) **EXTRUDED INNERSHEATH**: Here the innersheath is provided by extrusion of thermoplastic over the laid up cores. This type of the innersheath is generally provided in cables having round cores i.e in control cables and in power cables upto 10 mm² size. This type of the innersheath also acts as a water barrier between cores.

b) **TAPPED INNERSHEATH**: Here the innersheath is provided by wrapping a thermoplastic tape over the laid up and outersheath. In case of a puncture in the outersheath the water can not reach to the cores and hence we recommend that cables for outdoor underground uses should have extruded innersheath.

Cores – It is generally employed in cables having sector shaped cored i.e. multicore cables of 16 mm² and above.

This method saves a process and hence manufacturers always provide this type of innersheath unless the purchase specifications ask for extruded innersheath.

ARMOURING

In case of armoured cables, generally galvanized steel wire/strip armouring is provided over the innersheath in multicore cables and aluminium round wire or strip over the insulation in single core cables. It provides mechanical protection to inside cores and it carries earth return current in case of a short circuit of a core with armour.

As per IS 1554 (Part I) 1988, round wire armouring is provided in cable, where calculated diameter under armour is upto 13 mm. Above this the armouring is either with round wire or strip of size 4 mm x 0.80 mm. As strip construction is economical, we provide steel strip armouring unless wire armouring is specially specified by the customer.

In long run of cables and in case of mines, round wire armouring is must, as strip construction provides higher resistance to earth fault current and sometimes this current may not be sufficient to operate the circuit breaker in case of earth fault.

In mines, the resistance of the armour in no case should exceed the resistance of the main core by more than 33% for safety reasons. To achieve this, sometimes tinned hard drawn copper wires are required to be used along with galvanized steel wires. Sometimes two layers of round steel wire or steel strip are applied in opposite direction with barrier tape in between are provided to give extra protection.

In case of single core armoured cables for use in AC circuits, the material for armouring has to be non magnetic, as in this case, the return current is not passing through the same cable and hence it will not cancel the magnetic lines produced by the current. These magnetic lines which are oscillating in case of AC current will give rise to eddy current in magnetic armouring and hence armouring will become hot, and this may lead to the failure of the cable. Generally hard drawn aluminium wires/strip are used for armouring in this case.

OUTERSHEATH

The PVC covering over the armouring in case of armoured cables and over the innersheath in case of unarmoured cables is called outersheath.

IS 1554 specifies nominal and minimum thicknesses of outer sheath for unarmoured cables and only minimum thickness of outer sheath for armoured cables.

It permits the following types of outer sheath PVC

compounds.

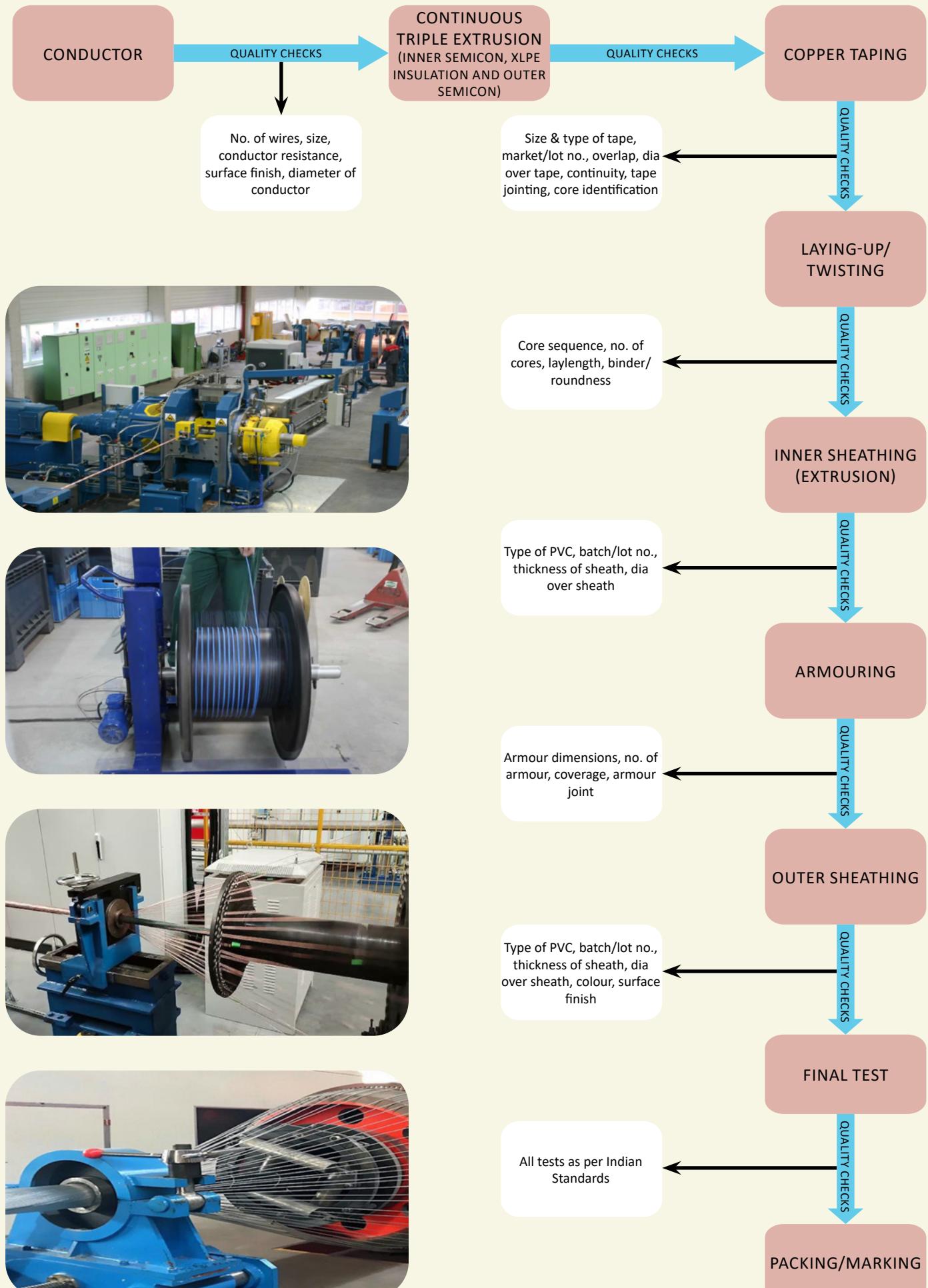
1. Outer sheath with ST1 type PVC compound as per IS-5831, which is suitable for 70 °C continuous operation.
2. Outer sheath with ST2 type PVC compound as per IS 5831, which is suitable for 85 °C continuous operation.

PVC has got fire retardant properties due to its halogen content. The fire in the cable gets extinguished immediately on removal of the fire source.

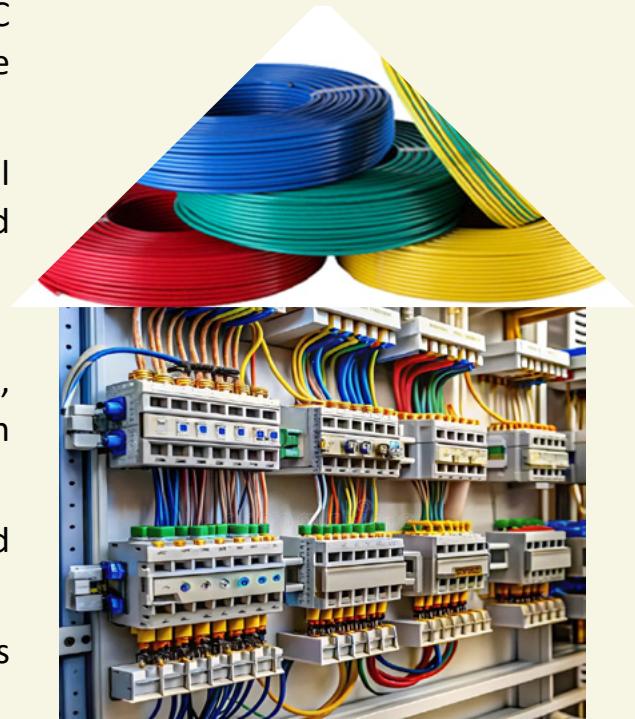
In the modern power, chemical, fertilizer and cement industries, many PVC cables are bunched in the cable shaft or on cable trays. In case of fire in these cables, the fire becomes self sustaining. Moreover due to the burning of PVC a dense corrosive smoke is emitted which makes fire fighting very difficult, due to poor visibility and toxic nature of the smoke. HCL content of the smoke, not only damages other costly equipment lying nearby, but also penetrates the RCC and corrodes the steel reinforcement. Due to this there is an extensive damage to the property.

To overcome these deficiencies FRLS i.e. Fire Retardant Low Smoke PVC is used for sheathing.

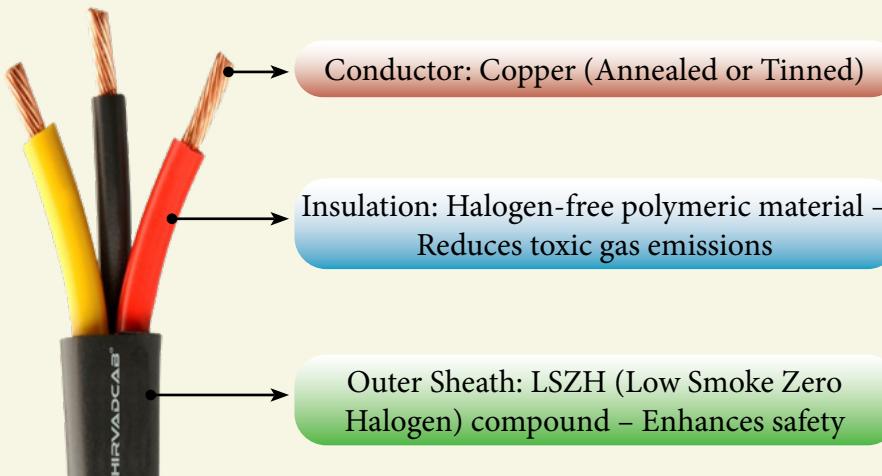
If required, we can provide Fire Retardant Low Smoke (FRLS) PVC Inner sheath and/or outer sheath. This PVC compound, apart from meeting the requirements of Type ST2 as per IS-5831, has got better fire retardant properties and it emits lower smoke and acid fumes when it catches fire. (For more information please refer our catalogue on FRLS cables).



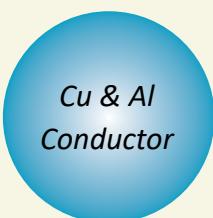
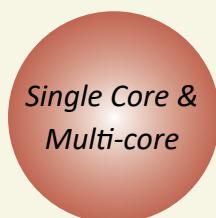
- **ASHIRVAD CAB®** offers premium range of PVC insulated single and multicore rigid and flexible domestic wires and cables.
- Domestic wires and cables are used for electrical wiring in residential buildings, apartments, and small commercial spaces.
- Our domestic wires and cables are designed to safely transmit electricity for lighting, appliances, and other household electrical needs with minimum loss.
- Our wires can be used upto 1100 V for AC and 1250 V DC to earth.
- We also offer fire performance wires and cables in FR, FR-LSH and LSZH category.
- We use 100% **ecolytic** grade copper in conductor.



CONSTRUCTION



- Our wires and cables ensure safe, durable and efficient power transmission.
- We use high quality insulation material to prevent leakage and short-circuit.
- We use annealed Copper for flexibility and easy installation.
- Our wires and cables are tested at 3 KV AC for quality and safety.
- Available in multi-cores, multi-colour, and customized packaging.





- FR-LSH (Flame Retardant, Low Smoke, and Halogen-Free) cables are specially designed electrical cables that prevent fire spread, emit minimal smoke, and do not release toxic halogen gases when exposed to fire.
- Ideal for applications where fire safety and low toxicity are critical.

| Available Size | Core Options | Voltage | Conductor Material | Insulation Material | Outer Sheath | Operating Temperature |
|---------------------------|--------------|-------------|--------------------|---------------------|--------------------|-----------------------|
| 0.5 - 630 mm ² | 1C/Multicore | upto 1100 V | Copper/ Aluminium | PVC | PVC/FR/ FRLSH/LSZH | Upto +90 °C |

Available Ranges

- House Wiring Cables (Single-Core & Multi-Core)

Used for general electrical wiring inside homes.

Made of copper and aluminium with PVC insulation.
- Flexible Cables

Used for appliances like fans, refrigerators, and washing machines.

Highly flexible with annealed copper strands for easy bending.
- Fire-Resistant Cables (FR, FR-LSH, LSZH)

FR (Flame Retardant): Resists fire spread.

FR-LSH (Flame Retardant Low Smoke & Halogen): Reduces smoke and toxic gas emission.

LSZH (Low Smoke Zero Halogen): Ideal for safety in enclosed spaces.

- Single core rigid and flexible.
- Multicore rigid and flexible with sheathing.
- All sizes in above all variations as per IS 694 are available.



Flame Retardant Low Smoke (FRLS)

Low Smoke Zero Halogen (LSZH)

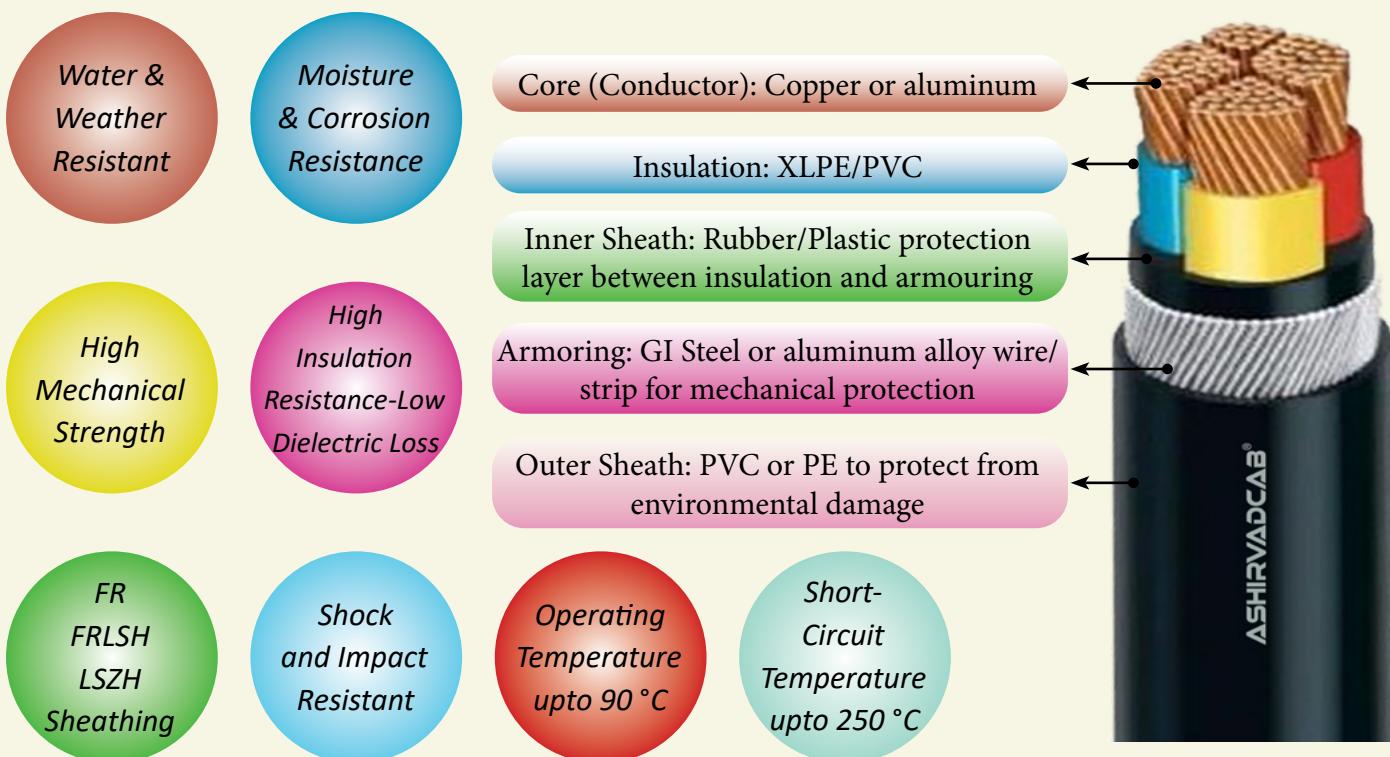
Halogen Free Fire Survival

Short-circuit Temperature upto 250 °C



- Our underground cables are specially designed for safe and efficient transmission of power through underground network.
- The cables are engineered to withstand moisture, chemical exposure, stress and soil condition ensuring long lasting performance in power distribution systems across industrial, residential and infrastructure projects.
- PCV/XLPE insulated for high dielectric strength suitable upto 1100 V working AC voltage and DC 1500 V to earth.

CONSTRUCTION



| Available Size | Core Options | Voltage | Conductor Material | Insulation Material | Inner Sheath | Armour | Outer Sheath | Operating Temperature |
|-------------------------|-------------------------|-------------|--------------------|---------------------|--------------|-------------------|--------------|-----------------------|
| 4 - 630 mm ² | 1C/2C/3.5C/4C/Multicore | upto 1100 V | Copper/Aluminium | PVC/XLPE | PVC/Rubber | GI Steel/Al Alloy | PVC/PE/TP | Upto +90 °C |

- All possible customization available as per IS and customer requirements.
- High strand count for flexibility and uniform insulation thickness for better performance.
- Consistence quality tested under stringent conditions.
- Custom length and packaging available.



- Power cables are used for the transmission and distribution of electrical energy at low voltage.
- ASHIRVADCAB's manufactures all ranges and variations of power cables which can be use upto 1100 V AC and 1500 V DC to earth.
- These cables are commonly used in residential and commercial buildings, industrial wirings, where low voltage is required for lighting and instruments.

CONSTRUCTION

| | |
|----------------------------|-----------------------------|
| Core Options | 1C - 4C |
| Available Size | 1.5 - 1000 mm ² |
| Voltage Grade | upto 1100 V |
| Conductor Material | Annealed Stranded Copper/Al |
| Insulation Material | PVC/XLPE |
| Inner Sheath | ST1/ST2 PVC/FR/FR-LSH/LSZH |
| Armour | GI Steel (Strip/Round) |
| Outer Sheath | ST1/ST2 PVC/FR/FR-LSH/LSZH |

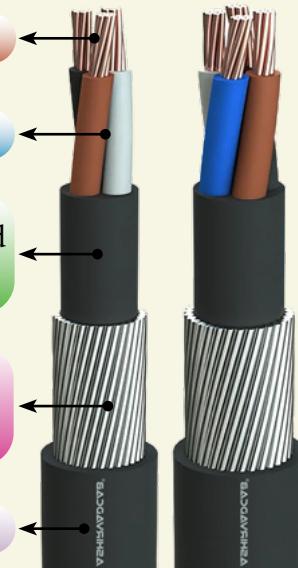
Conductor: Copper or aluminum

Insulation: PVC, XLPE

Inner Sheath: Protects the insulation and provides mechanical strength

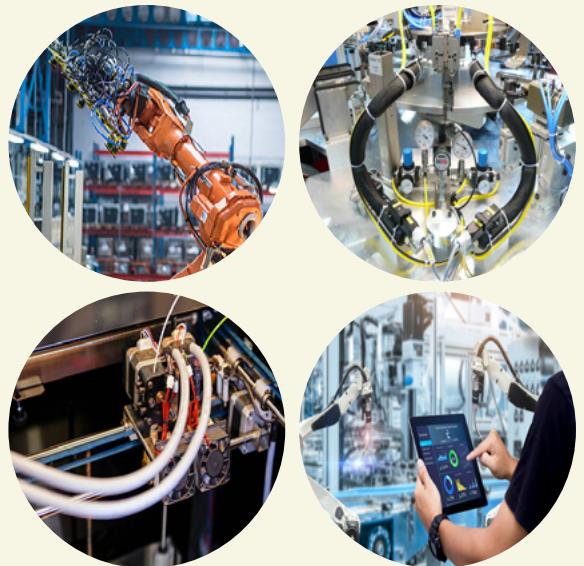
Armoring: Steel or aluminum wire for mechanical protection

Outer Sheath: ST1/ST2 PVC

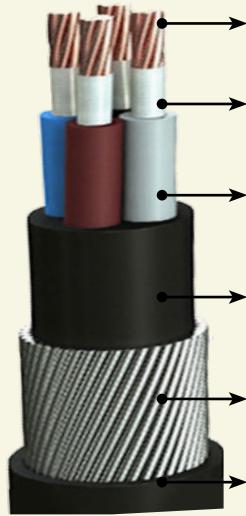


- ASHIRVADCAB provides all possible customization as per IS and customer requirements.
- High strand count for flexibility and uniform insulation thickness for better performance.
- We use copper or aluminium conductors along with PVC or XLPE insulation to ensure effective power transmission and safety up to 1100 V.
- Our power cables design protects the conductor from electrical leakage and enhances durability.
- Available in different configurations, such as single-core, multicore, armoured, and unarmoured to suit various applications and environments.
- Designed for DC systems with rated voltage upto and including 1500V to earth.

- **ASHIRVAD CAB**® manufactures high quality control cables for transmitting signals to control electrical systems, automation systems, machinery, instrumentation and industrial equipment.
- We offer control cables ranging from single-core, twin-core, three-core and multi-core.
- Our cables are suitable for use upto 1100 V.
- We offer in both armoured and unarmoured configurations as per requirement.



CONSTRUCTION



Conductor: Stranded Copper

Shielding (Optional): Metallic foil for EMI protection

Insulation: PVC/XLPE

Inner Sheath (Optional): ST-2 PVC/FR/FRLS/FRZH

Armoring (Optional): GI steel (Strip/Round)

Outer Sheath: ST-2 PVC/FR/FRLS/FRZH

Controlled
Signal
Transmission

Flame
and Fire
Retardant

Durable &
Long Lasting

High Signal
Efficiency

FR/
LSZH/
FRLSH
Coating

Zero Halogen

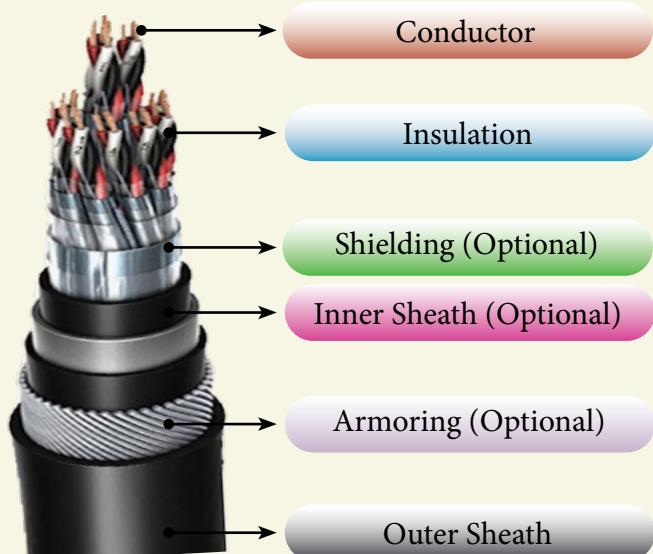
| Core Options | Available Size | Voltage | Conductor Material | Insulation Material | Inner Sheath | Armour | Outer Sheath |
|--------------|---------------------------|-------------|--------------------|---------------------|-----------------------|------------------------|-----------------------|
| 1C - 61 C | 1.5 - 2.5 mm ² | upto 1100 V | Stranded Copper | PVC/XLPE | ST-2 PVC/FRLS/FR/LSZH | GI Steel (Strip/Round) | ST-2 PVC/FRLS/FR/LSZH |

- We offer different ranges of control cable as per standard and requirement
- We provide custom solutions for control cables as per standard and requirement.
- Shielded Control Cables: Have a metallic shield to protect against electromagnetic interference (EMI).
- Unshielded Control Cables: No shielding; used where EMI is not a concern.
- Flexible Control Cables: Designed for applications requiring frequent bending and movement.

- Instrumentation cables are used to transmit low-level, often analog signals, of physical parameters such as temperature, pressure, flow, and level from sensors to control systems.
- We offer instrumentation cables ranging from single-core, twin-core, three-core and multi-core.
- Our instrumentation cables are suitable for use upto 500 V.



CONSTRUCTION



| | |
|----------------------------|--|
| Core Options | 1C - 37C |
| Available Size | 0.5 - 2.5 mm ² |
| Voltage Grade | upto 500 V |
| Conductor Material | Annealed Tinned/Plain Stranded Copper |
| Insulation Material | PVC/XLPE/XLPO/SiR/EPR |
| Screening | Al-mylar Tape with Tinned Copper Drain Wire/ATC Braiding |
| Inner Sheath | ST1/ST2 PVC/FR/FR-LSH/LSZH/PCP/CSP/CPE |
| Armour | GI Steel (Strip/Round) |
| Outer Sheath | ST1/ST2 PVC/FR-LSH/LSZH/FR/PCP/CSP/CPE |



- ASHIRVAD CAB®** provides solutions for various ranges of instrumentation cables as per standard and requirements.
- Shielded Instrumentation Cables: Have a metallic shield to protect against EMI.
- Unshielded Instrumentation Cables: No shielding; used where EMI is not a concern.
- Flexible Instrumentation Cables: Designed for applications requiring frequent bending and movement.
- Paired Instrumentation Cables: Twisted pair cables that reduce EMI.

ASHIRVAD CAB®

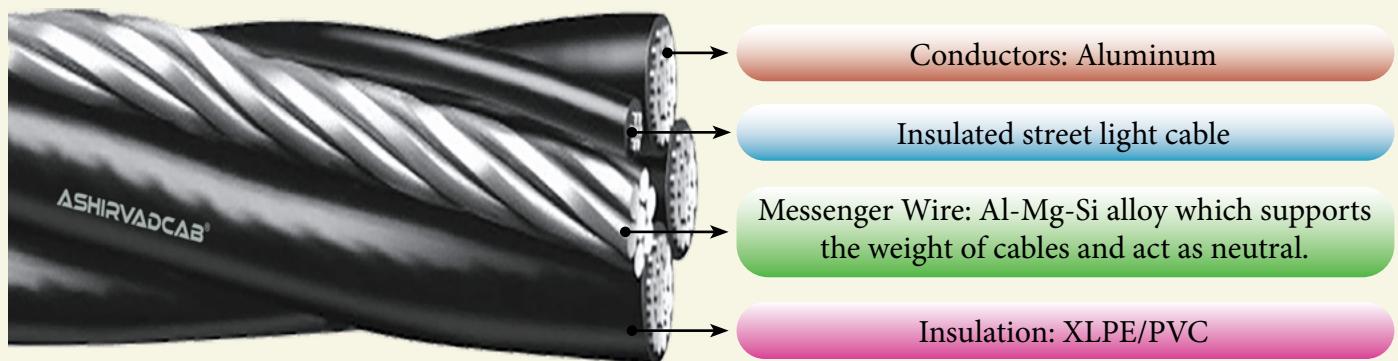
Serving from decades through
manufacturing quality
WIRES AND CABLES
with
SAFETY AND RELIABILITY



- Our Aerial Bunched Cables (ABC) are overhead power cables consist of multiple insulated conductors bunched together and twisted over a central bare/insulated (Al-Mg-Si alloy) messenger wire.
- These cables offer a safer, more reliable and theft resistant alternative to traditional bare conductor lines.
- These cables are suitable for use on 3-φ AC supply for rated voltage upto 1100 V.



CONSTRUCTION



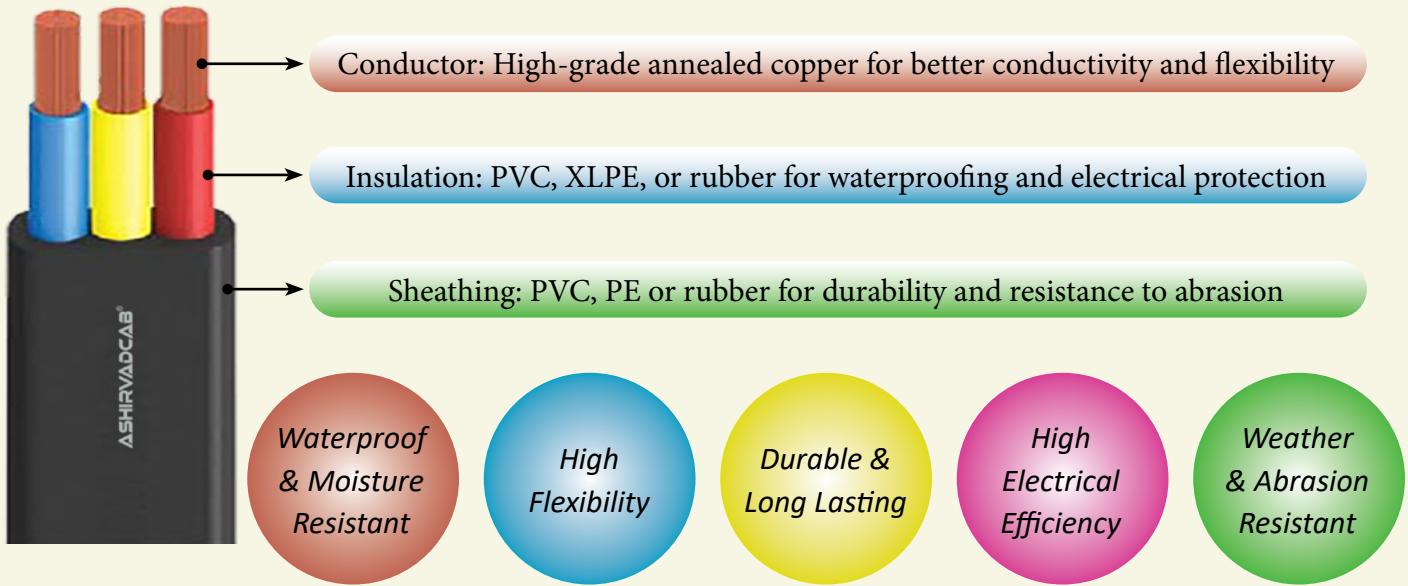
| Core Options | Available Size | Voltage | Conductor Material | Insulation Material | Messenger Wire | Operating Temperature |
|---|--------------------------|-------------|--------------------|---------------------|----------------|---|
| 2 - 5 C (with or without street light core) | 16 to 95 mm ² | upto 1100 V | Aluminium | XLPE/PVC | Al-Mg-Si Alloy | Upto 90 °C continuous, 250 °C short circuit |

- Durable performance with harsh weather conditions.
- Ideal for theft-prone and maintenance-challenged areas.
- Insulated messenger wire option available upon customer requirement.
- Technical supports and customized solutions available.
- Trusted by **DISCOMs, ESCOMs, MSEB** etc. contractors and public utilities.
- Consistency quality tested under stringent conditions.

- We manufacture high performance submersible cables specially designed for continuous operation to supply power to submersible pumps, motors, and underwater equipment.
- Our cables are built to withstand continuous immersion in water, high moisture levels, and harsh environmental conditions ensuring safety.



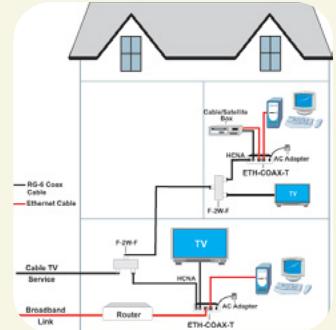
CONSTRUCTION



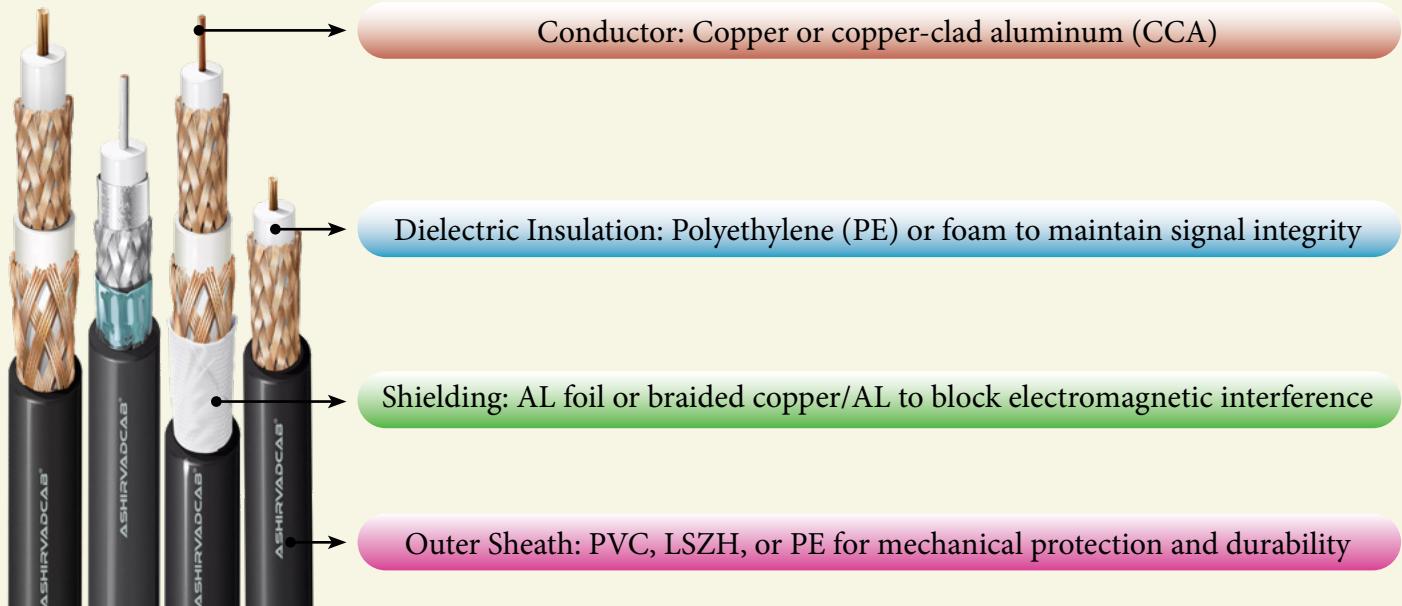
| Available Size | Voltage | Conductor Material | Core Construction | Insulation Material | Outer Sheath | Operating Temperature |
|----------------------------|-------------|--------------------|-------------------|---------------------|--------------------------------|-----------------------|
| 1.5 to 150 mm ² | upto 1100 V | Annealed Copper | 3/4 Core (Flat) | PVC/ Rubber | PVC Compound - Water Resistant | -40 °C to +90 °C |

- Flat Submersible Cables: Suitable for borewell and deep well pumps having three cores (for three-phase systems) or two cores (for single-phase systems). Easy to install in narrow spaces.
- Heavy-Duty Submersible Cables: Suitable in sewage treatment plants, irrigation systems, and offshore drilling. Resistant to oil, grease, and chemicals.
- High strand count for flexibility and uniform insulation thickness for better performance.
- Consistency quality tested under stringent conditions.
- Custom length and packaging available.

- Our coaxial cables are designed to transmit high-frequency signals with minimal loss and interference.
- They are commonly used in television, internet, radio, computer networking and communication systems.



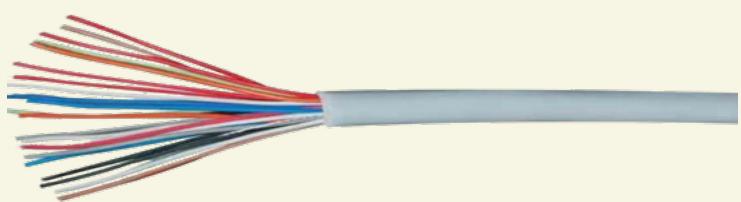
CONSTRUCTION



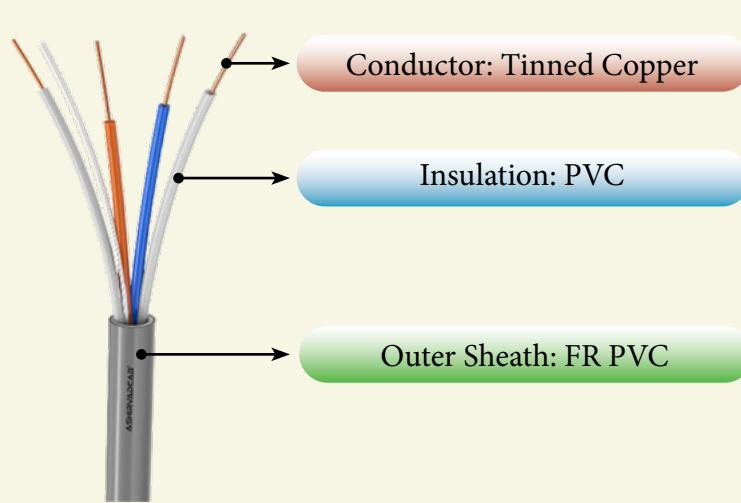
| Category | Conductor Material | Insulation Material | Outer Sheath | Operating Temperature |
|--------------------|--------------------|---------------------|--------------|-----------------------|
| RG-6, RG-11, RG-59 | Annealed Copper | PE/Foam | PVC/PE | -15 °C to +70 °C |

- RG-6: Used for cable TV, satellite, and internet connections.
- RG-11: Thicker and offers lower signal loss over long distances.
- RG-59: Used for CCTV and low-frequency applications.
- ASHIRVADCAB's coaxial cables are technologically superior and provide a smooth high frequency signal transmission to CATV network.
- Our Coaxial cables are suitable to use in external as well as in internal installation for low power video signal and broad band signals.

- We manufacture Telephone cables used for indoor telephones, telephone exchanges, telephones networks for offices and businesses, telecommunication networks, industrial plant communication systems, EPBAX systems, closed circuit security systems.
- These cables may be used in In-House Telephone wiring and various other equipments involving telephones.



CONSTRUCTION



*Uninterrupted
Signal Quality*

*Low
Interference*

*Long Distance
Transmission*

Long Lasting

| Available Size | Configuration | Conductor Material | Insulation Material | Outer Sheath | Operating Temperature |
|--------------------------------|---------------|--------------------|---------------------|--------------|-----------------------|
| 0.4 - 0.9 mm (single solid) | 1P - 20P | Tinned Copper | PVC | FR PVC | -20 °C to +70 °C |

- We provide customize solutions for telephone cables as per standard and requirement.
- Our cables are designed to ensure minimum cross talk by staggered lays of twisted pairs.
- We use high grade PVC insulation for long life and stable properties of cables.
- Sizing and processing of conductor and insulated cores is done in precisely controlled manner on automatic modern machines to have optimum values of capacitance, capacitance unbalance, image and cross talk attenuation and characteristic impendence.
- We **prove** shielding options to protect from outside/inter pair interference as per customer requirement.

- ASHIRVADCAB's high-temperature signalling cables are designed to operate in extreme heat conditions where standard cables would degrade.
- These cables use special insulation materials like EPR (Ethylene Propylene Rubber) or Silicone Rubber, making them suitable for applications requiring heat resistance, flexibility, and durability.
- Due to the robust and flexible design, these cables are highly suitable for use in industries like mines, textile, wind power mills, steel mills, ships, construction machines and turbines.

CONSTRUCTION



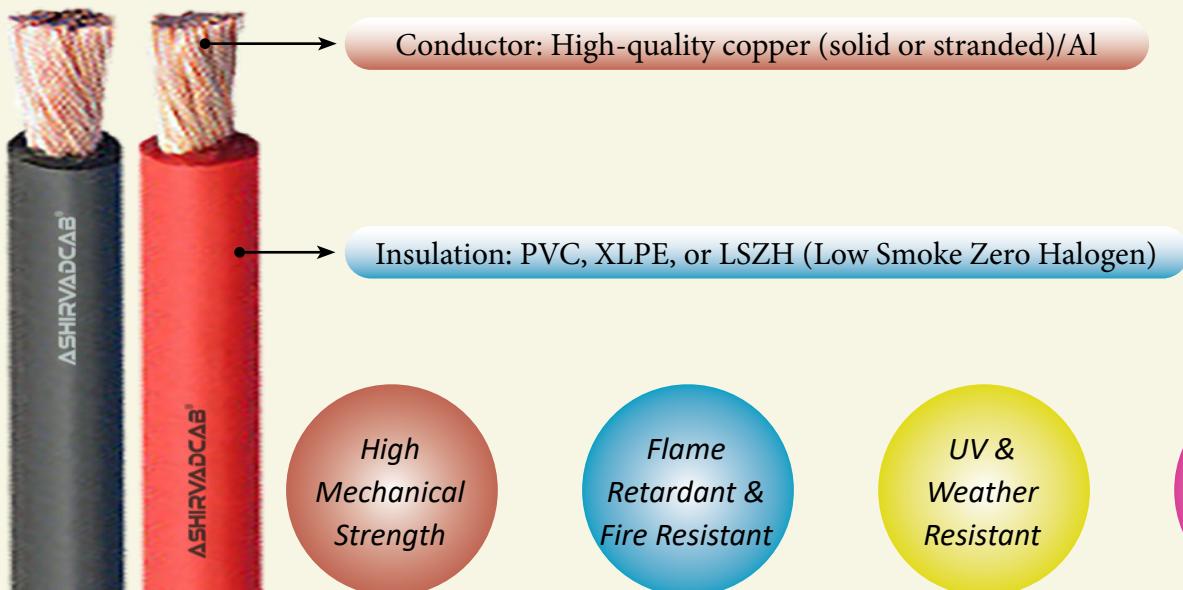
| Available Size | Core Options | Conductor Material | Insulation Material | Outer Sheath | Operating Temperature |
|---------------------------|---------------|---------------------|---------------------|---------------|-----------------------|
| 1.5 - 400 mm ² | 1C/Multi-core | Tinned/Plain Copper | EPR/Silicone | EPER/Silicone | -20 °C to +250 °C |

- EPR-Insulated Signalling Cables: Can be operated at temperatures of up to 90 °C and short circuit temperature of 150 °C. Provides excellent electrical insulation and moisture resistance. Suitable for railways, industrial automation, and power plants.
- Silicone-Insulated Signalling Cables: Can be operated at temperatures of up to 180 °C and short circuit temperature of 250 °C. Offers excellent thermal stability, flexibility, and fire resistance. Used in aerospace, furnaces, and high-temperature industrial environments.
- These cables are designed for high-voltage power transmission and signaling, using EPR or Silicone rubber as insulation to withstand the high voltage and environmental conditions.
- We offer various configurations in cables, including multi-core versions with different sheath materials for specific applications.
- UV Resistance: They are resistant to the harmful effects of ultraviolet radiation.

- ASHIRVADCAB's welding cables are flexible, durable cables used to connect welding machines to electrodes and grounding systems.
- They are designed to carry high current at low voltage for welding applications.
- These cables are designed to use in machine welding and hand welding to work at dry and wet locations as well as outdoor use.
- The cables are also suitable for automatic welding.
- Can be operated upto 1100 V.



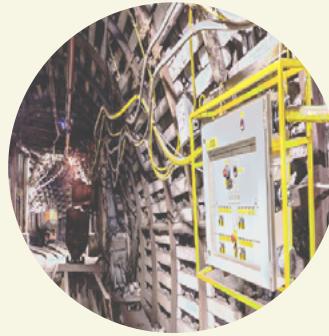
CONSTRUCTION



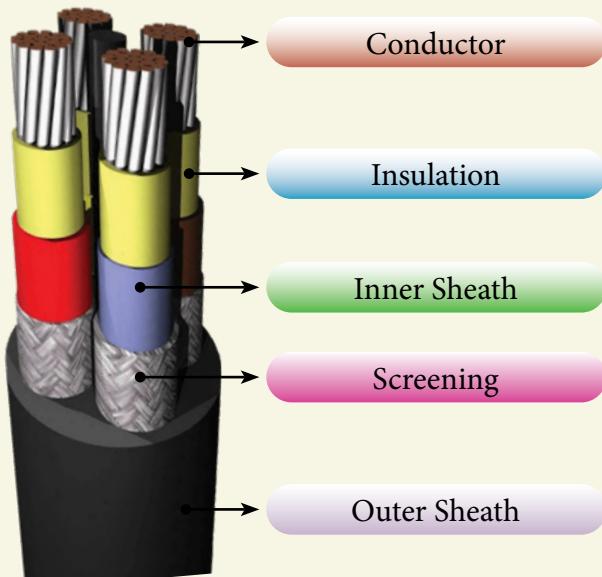
| Available Size | Voltage | Conductor Material | Insulation Material | Operating Temperature | Standard |
|--------------------------|-------------|---|---------------------|-----------------------|----------|
| 16 to 95 mm ² | upto 1100 V | Annealed Plain Electrolytic Copper/Aluminum | PVC | Upto 250 °C | IS 9857 |

- We offer various sizes and colour options as per standard and requirement.
- High grade annealed plain electrolytic copper conductor.
- Available in aluminium conductor also.
- High grade insulation material for heat resistance and robust use.

- **ASHIRVADCAB®** offers heavy-duty mining cables designed for use in underground and surface mining operations.
- Our mining cables are built for **continuous** operations in harsh environments including moisture, extreme temperatures, mechanical stress, and exposure to chemicals.
- Our cables are designed to withstand mechanical loads such as abrasion, impact, vibration, tension and contact with mud and soil.
- These mining cables are endure exposure to oil, grease and water.



CONSTRUCTION



| | |
|---|--|
| Core Options | 1C/Multi-core |
| Available Size | 25 - 120 mm ² |
| Voltage Rating | upto 1100 V |
| Conductor Material | High Grade Tinned Copper |
| Separator (B/W Conductor & Insulation) | Polyester Tape |
| Conductor Screening | Semi-conducting Material |
| Insulation Material | XLPE/EPR |
| Insulation Screening | Semi-conducting Material |
| Inner Sheath | XLPE/EPR |
| Outer Sheath | XLPE/EPR |
| Operating Temperature | upto +90 °C - continuous & +250 °C - short circuit |

Resistant to Abrasion & Tension

Resistant to Impact & Vibration

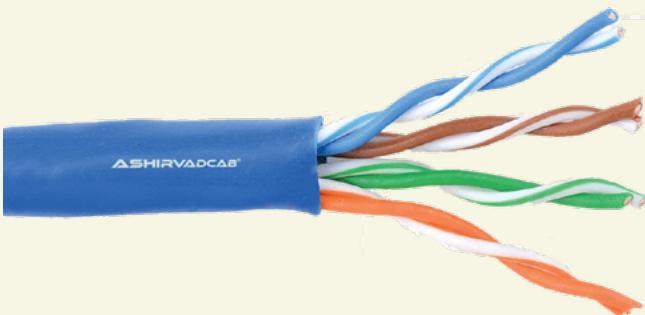
Resistant to Acids & Alkaline

Chemical, Oil & Grease Resistant

Highly Flexible for Constrain Space Use

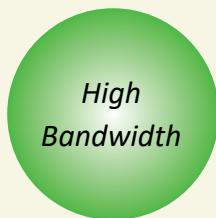
- **ASHIRVADCAB®** provides solutions of mining cables with custom ranges as per IS and customer requirement.
- The construction of mining cables are based on the requirements of the user and applications confirming to IS 14494.

- LAN (Local Area Network) cables are used for wired networking to connect computers, routers, switches, and other devices.
- ASHIRVADCAB's LAN Cables allows device to access high-speed networks/internet data.
- The most common types are CAT5e (Category 5e) and CAT6 (Category 6) cables, which differ in speed, bandwidth, and interference resistance.
- These LAN cables are suitable for Data Center Applications to transfer high speed data of current digital world and AI systems.



| COLOUR CODES | |
|--------------|---------------------------|
| Pairs | Colours |
| Pair 1 | White – Blue and Blue |
| Pair 2 | White – Orange and Orange |
| Pair 3 | White – Green and Green |
| Pair 4 | White – Brown and Brown |

| Category | Configuration | Conductor Material | Insulation Material | Outer Sheath | Bandwidth | Data Speed | Operating Temperature |
|----------|----------------------------------|--------------------|---------------------|--------------|-----------|---------------------------------|-----------------------|
| CAT5e | Twisted Pair Insulated Conductor | Copper | HDPE | PVC | 100 MHz | Upto 1 Gbps for short distance | -20 °C to +70 °C |
| CAT6 | Twisted Pair Insulated Conductor | Copper | HDPE | PVC | 250 MHz | Upto 10 Gbps for short distance | -20 °C to +70 °C |

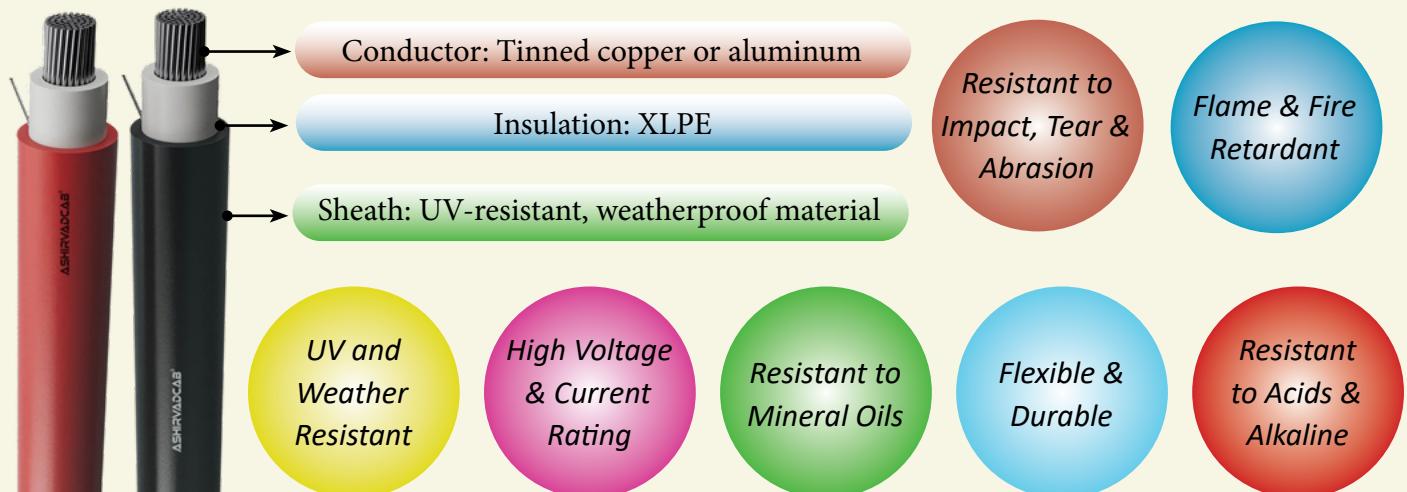


- We provide customization in various colours, FR/FRLSH/FRZH PVC jacket as well as armouring as per requirements and standard.
- CAT6 cables consist of four pairs of twisted copper wires which reduce EMI and crosstalk between the wires, allowing for higher bandwidth and faster data transmission.

- ASHIRVADCAB's solar cables are specially designed electrical cables used in photovoltaic (PV) systems to connect solar panels, inverters, and other components.
- Our solar cables are built to withstand harsh environmental conditions such as UV radiation, extreme temperatures, and moisture.



CONSTRUCTION



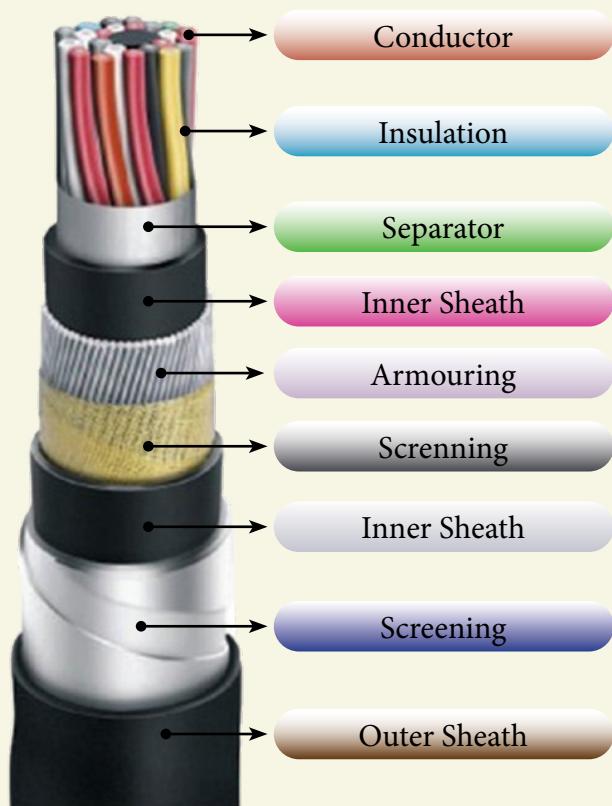
| Core Options | Available Size | Voltage | Conductor Material | Insulation Material | Outer Sheath | Operating Temperature |
|--------------|----------------------------|-------------|---------------------------------|---------------------|--------------|-----------------------|
| 1C/Multicore | 1.5 to 240 mm ² | upto 1200 V | Flexible Annealed Tinned Copper | EPR/XLPE | XLPE | -40 °C to +120 °C |

- We provide all possible customization as per standard and requirement.
- Halogen-free: Low Smoke Emission and Low Toxicity/Corrosivity during fire.
- Fully recyclable: In accordance with new environmental regulations.
- Lifetime reliability: Our solar cable lasts up to 25 years even under tough external conditions.
- ASHIRVADCAB's solar cables are highly robust, capable of performing efficiently in exposed weather conditions with long-term durability and reliability.
- Solar cables are Resistant to Ozone.
- Flexibility and stripability: For fast and easy installation.
- Easy installation with color identification (black, red).
- Suitable to common connector types.

- Railway signalling cables play an essential role in controlling and transmitting signals in railway networks.
- ASHIRVADCAB's railway signaling cables ensure safe and reliable train operations by connecting signaling equipment, control centers, and trackside infrastructure with their unique specifications and design.
- The cables ensure the transmission of signals and a continuous power supply across all trackside signalling equipment applications.



CONSTRUCTION



| | |
|------------------------------|--|
| Core Options | 2C - 30C |
| Available Size | 1 - 50 mm ² |
| Voltage Rating | upto 1100 V |
| Conductor Material | High Grade Tinned Copper |
| Insulation Material | XLPE/EPR |
| Separator | Polyester Tape |
| Sheathing | PVC |
| Armouring | GI Steel (Strip/Round) |
| Screening | Semi-conducting Material |
| Inner Sheath | PVC |
| Screening | Semi-conducting Material |
| Outer Sheath | PVC/FR/FRLSH/FRZH |
| Operating Temperature | upto +90 °C - continuous & +250 °C - short circuit |

ASHIRVADCAB® provides customize solutions to various ranges of railway signaling cables as per IS and requirements including:

- Power Signalling Cables: Supply power to railway signaling systems.
- Control & Data Transmission Cables: Carry low-voltage control signals for automation.
- Axle Counter Cables: Used in train detection systems for track occupancy monitoring.
- Telecommunication Cables: Transmit voice and data between railway stations.
- Screened (Shielded) Signalling Cables: Provide protection against EMI.
- Armored Signalling Cables: For mechanical protection in harsh environments.

At **ASHIRVAD CAB**®, quality is not just a goal—it's a guarantee. Our wires and cables products are manufactured and tested under stringent quality assurance protocols to ensure they meet or exceed Indian standards for safety, performance, durability and reliability.

In the manufacturing of cables, our team put intelligent efforts to achieve quality. For a quality end products, control starts from proper design of the product. All raw materials are selected carefully and only materials of high quality are used in production. Having done this, stage wise inspection is done to ensure conformity with the requirements of relevant IS.

All our products conform to relevant IS, including:

- IS 694
- IS 7098
- IS 1554
- IS 14255
- IS 10810
- All the tests performed in a well **equiped** laboratory

Raw Material Inspection

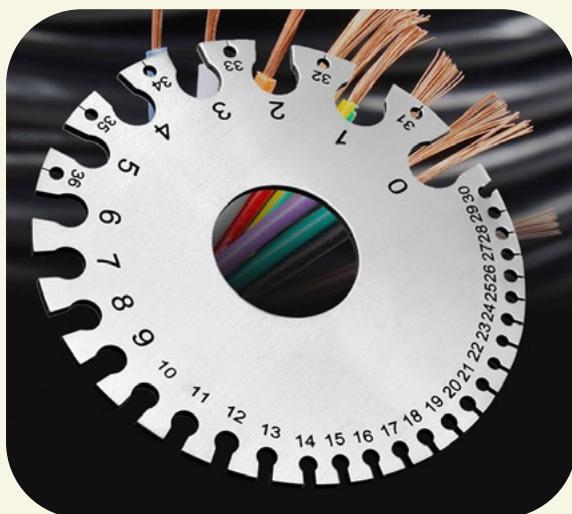
Every batch of raw materials including copper, aluminum, PVC, XLPE, and sheathing compounds are inspected for quality and consistency. Only approved materials proceed to production.

- IS 8130 - for aluminium and copper conductor
- IS 5831 - for PVC compound
- IS 3975 - for armouring material

In-Process and Final Inspection

Our quality control team monitors every stage of production:

- IS 10810
 - Continuous in-line monitoring of insulation and conductor dimensions.*
 - Spark testing and fault detection.*
 - Final inspection and batch testing before dispatch.*



IS : 694

CM/L-8812786



In-House Testing Facilities

We maintain fully equipped, state-of-the-art testing equipment to conduct:

- IS 10810

Electrical Tests (insulation resistance, high-voltage withstand, conductivity).

Mechanical Tests (tensile strength, elongation, abrasion resistance).

Thermal and Fire Performance Tests (flame retardance, temperature rating).

Aging and Weather Resistance Tests (UV resistance, moisture ingress).

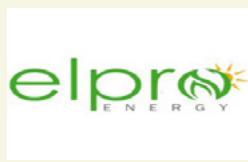


Traceability and Documentation

Each cable batch is fully traceable through a unique identification code. Comprehensive test reports and certificates of conformity are available upon request to support customer audits and regulatory compliance.

Customer Commitment

Our QA processes are designed with the end user in mind. We are committed to provide safe, reliable, and high-performance wire and cable solutions that meet the evolving demands of domestics and modern industries including power, telecommunications, automotive, construction, and renewable energy sectors.

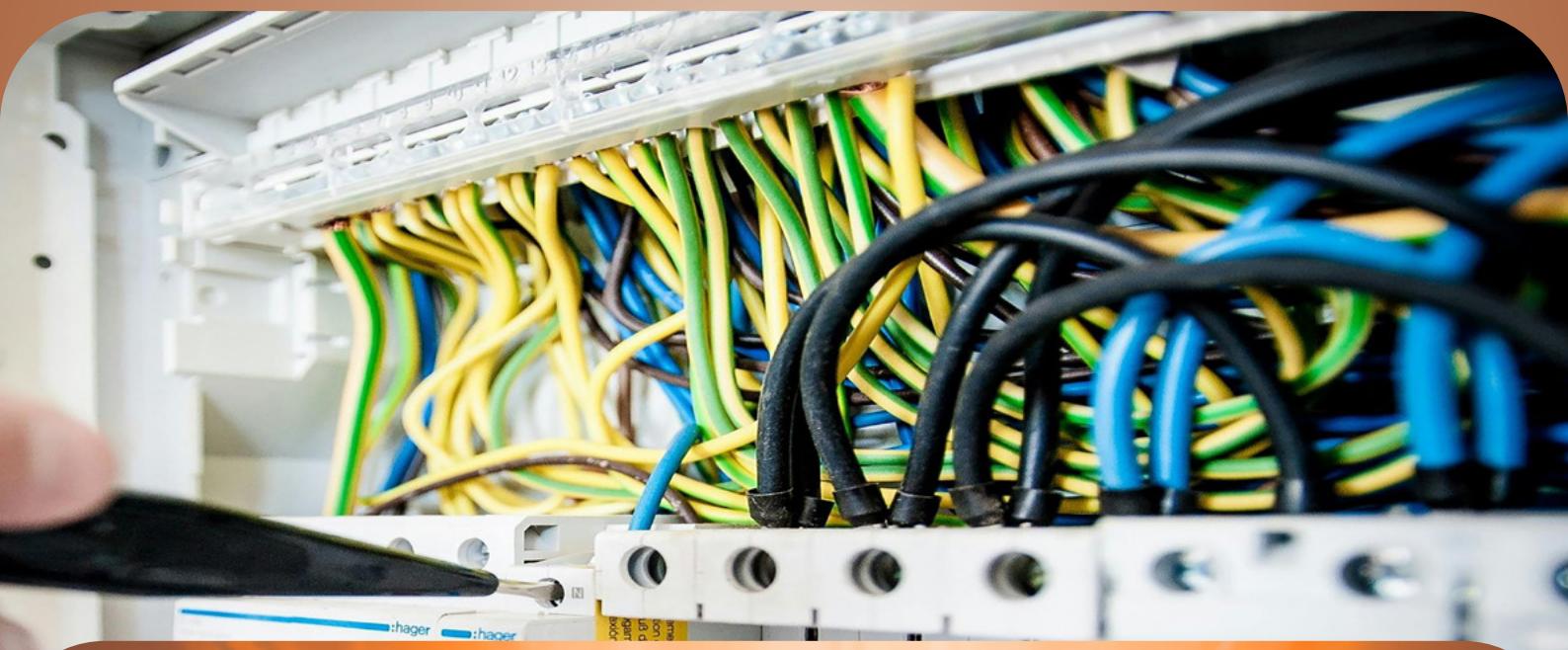


ASHIRVADCAB'S TEAM PRESENCE AT EXHIBITIONS





Elevate your wiring need with
our premium quality
WIRES AND CABLES
Explore our range today!





ASHIRVADCAB®

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YOUR SAFETY OUR PRIORITY