ATC PRO
ACCURATE TRANSMISSION CABLE

Innovative Solutions,
Reliable Connections
ATC PRO Wires And Cables

Empowering The Future, Together



Manufactured by:

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An ISO 9001 Certified Company

IS:14255	IS:1554	IS:7098	IS:1554
Aerial Bunch Cables Conductors	Power Cables Control Cables	XLPE Insulated Power Cable	Appliances Power Cables Building wires

Dear Customers,

The jouney of over 4 decades would not have been as exciting and fulfilling without the unconditional support of all our customers& our sales partners, I would like to express our deep gratitude to you all have made **ATC Cable as one of the outstanding companies in our industry**.

The advent of the second millennium has brought in its Wake a transformation in the mindset of the customers. the expectation of customer has risen exponentially. this trend is here to stay and we have to gear up towards keeping our customers totally satisfed.

There are many new challenges the cable industry is facing with new market opportunities and product developments, due to thrust in renewable energy sector. We have enthusiastically achieved success towards developing and delivering products for this segment and at the same time ensured to be internationally competitive.

ATC Cable business model is evolving. We have identified focus area of growth over the next 5 years and beyond. ATC Cable will diversify into product categories such as **Lighting, Luminaires, Switches, Switchgear, Electric fans** and appliances in the near future.

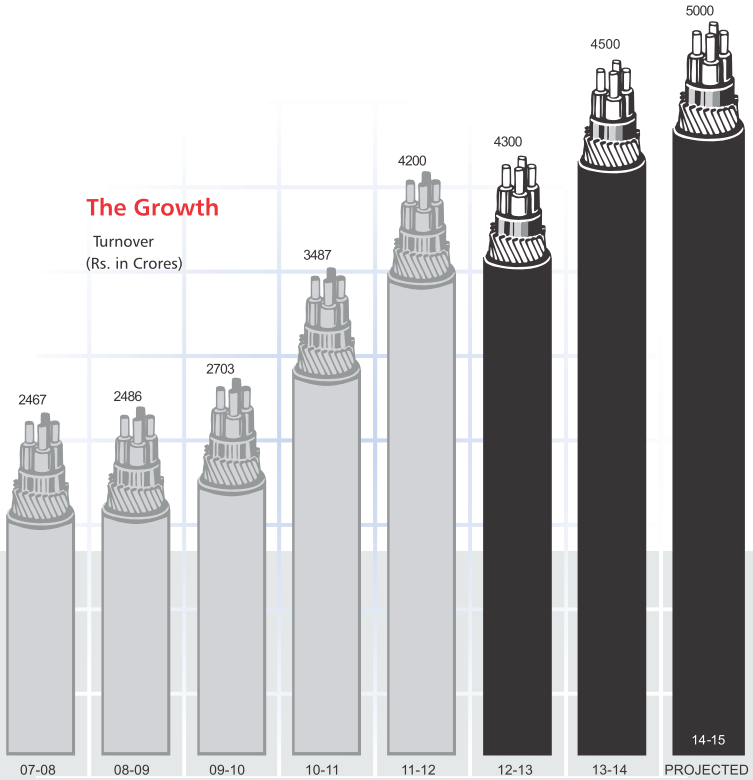
We take this opportunity to thank you and convey our gratitude for the unabated support and trust you have alaways reposed in ATC Cable and encouraged it to move a head confidently. I am confident that this will keep us ahead and winning in our constant endeavor to continue to be the preferres brand in this competitive market.

we hope to improve each day to serve you better and spread happiness.

Sunil Sood
Chairman & Managing Director

Company Profile

Started in **1991, ATC Cables Limited is India's largest leading electrical and telecommunication cables manufacturer**. ATC Cables has always believed in enhancing capabilities and augmenting the product basket. In the last few years, besides the cables business, the company has forayed into new segments and added new products under the ATC brand. The company offers complete electrical solutions with products like electrical wires, 3 core flat cables, communication cables, telecommunication cables, flexible cables, auto cables, copper rods, CFLS, led lighting range, electrical switches, switchgears, fans, and electric water heater range. Over the years, ATC has established itself as an innovator and leader by constantly upgrading their technology, modernizing facilities, and maintaining the highest standards in quality services. **ATC Cables Limited has manufacturing facilities viz. at Narela, New Delhi.**



CABLES & WIRES

About Us

Family-Owned Legacy:

ATC Cables began its manufacturing journey in **New Delhi**. Over the past 31 years, it has grown into formidable force, with four manufacturing plants across the city, all owned and operated by the family.

Our Strengths and Certifications:

ATC Cables proudly holds several certifications:

- **ISO 9001**: Ensuring high-quality products and services.
- **ROHS Compliant**: Committed to environmental safety.
- **CE Certified**: Meeting European standards.
- Various state government department approvals and central Government departments.

Licenses:

ATC manufactures products complying with relevant standards, including:

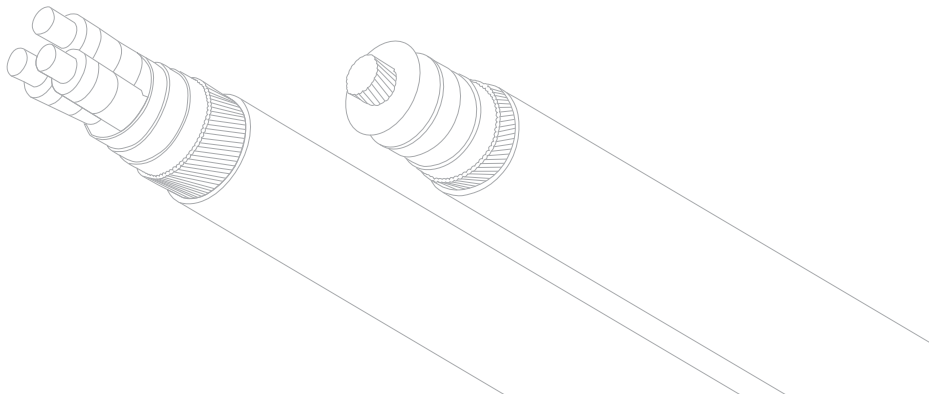
- **IS 694:2010**: PVC Insulated Building Wires copper and aluminium conductor.
- **IS 7098:1988**: Xlpe/Pvc insulated Power Cables Armoured/Unarmoured.
- **IS 14255:1995**: Aerial Bunch Cables
- **IS 1554:1988**: Power and control cables Armoured/unarmoured.
- **Led lighting** manufacturing registration with BIS in brand name ATCOM

Product Range:

- **PVC Insulated Building Wires**: Ideal for conduit wiring.
- **Panel Board Wiring**: Ensuring safety and reliability.
- **Submersible Cables:** Designed for submerged applications.
- **Round Flexible Wire:** Versatile and dependable.
- **Telecom Switch Board and Jumper Wire:** Connecting communication networks.
- **Power Cables:** Xlpe/Pvc Insulated copper/Aluminum/Alloy conductor cables for various used in Power department of Electricity Boards/distribution with minimum loss of transmission.
- **Aerial bunch cables:** For power transmission with minimum losses.
- **Medium Volt covered conductor (MVCC):** Medium Voltage Covered Conductors are developed to improve the reliability of the distribution of electricity. The concept of covered conductor has proven to be extremely functional and reliable with minimum transmission losses in HT

LED Lighting Product Range:

- Panel lights for indoor lighting
- Street lights, Flood lights and all our door lighting products
- Strip lights profiles for indoor and outdoor lighting
- Architecture and decorative lighting
- Tenchical lighting with app and mobile phone controls with automation.



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Quality Assurance:

Quality tests and safety-first policy

ATC ensures that you receive the best quality wires and cables. Their inherent toughness and flexibility make them ideal for a wide range of applications with rigorous testing ensures safety and reliability in all our products.



- **Insulation Excellence:** ATC cables are insulated with a special grade PVC compound, confirming to IS:5831/1984. Each meter of wire undergoes high-voltage spark testing to eliminate weak spots in the insulation.
- **Safety First:** The ISI approval means protection against electrical shocks, short circuits, and fires.
- **Energy-Saving Extrusion Lines:** ATC uses state-of-the-art extrusion lines, contributing to energy conservation.
- **Innovation:** We invest in research and development, staying ahead of industry trends. Our innovative designs enhance efficiency and durability.
- **Customer-Centric Approach:** Listening to our customers' needs and tailoring solutions accordingly is at the core of our business. Our responsive customer support ensures satisfaction.

Achievements:

- **ISO 9001 Certified:** Our commitment to quality management is recognized through ISO certification.
- **ROHS Compliant:** We prioritize environmental responsibility by adhering to ROHS guidelines.
- **CE Certified:** Our products meet European safety and performance standards.
- Appreciation from user of cables and lighting.

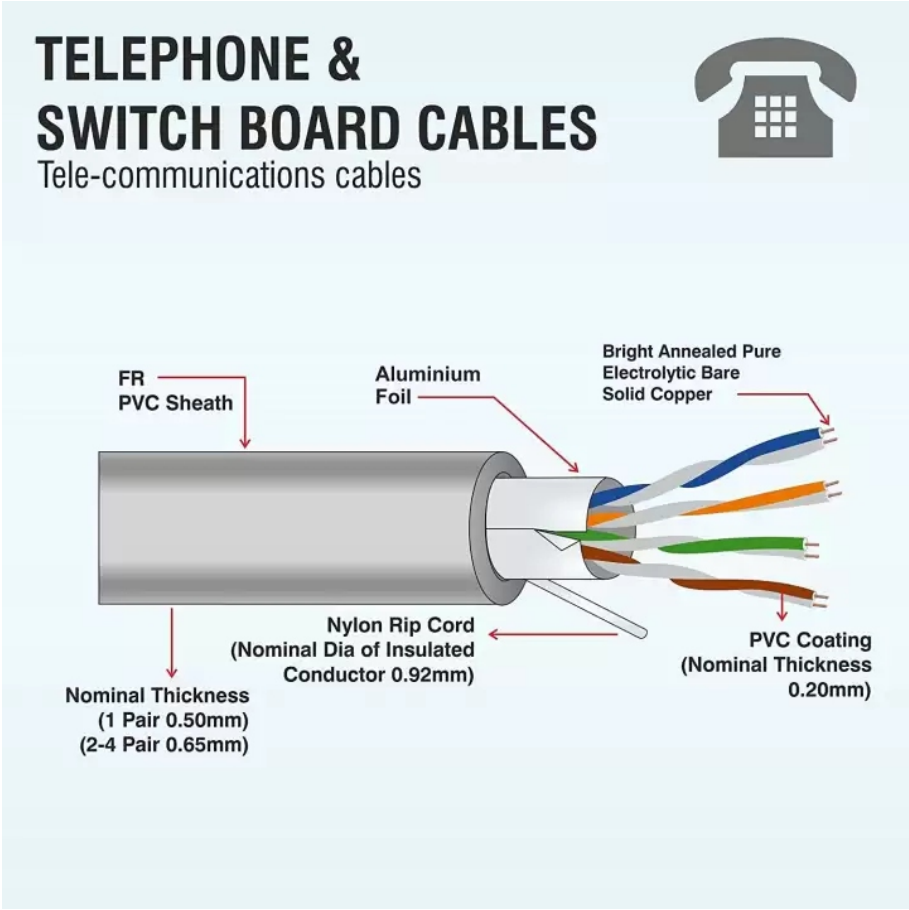
ATC (which stands for Advanced Technology Cables and Accurate Transmission Cables) is synonymous with quality, safety, and reliability. Just as a well-insulated cable ensures longevity and efficiency, ATC's commitment to excellence ensures that your buildings are constructed with the utmost care and durability. Whether it's a warehouse, office, school, or factory, ATC's cables contribute to the robustness and longevity of your projects.

For more comprehensive information, you can refer to the official website **www.bis.gov.in** All document avaliable from the bureau of Indian standards, It provides detailed specifications and guidelines for the manufacturing, chemical composition, physical properties, and testing of All cables mentioned above.

CABLES & WIRES

Telephone Swich Board Cables:

ATCPRO cables manufactures Telephone switch board cables. Let's know about telephone wiring cables with a questionare:-



- **What Are Telephone Cables?**

  Telephone cables transmit signals from one location to another. They consist of copper wire stwisted together and insulated with a plastic coating to prevent interference and damage.

- **Color Coding Scheme:**
  - Telephone cables typically have multiple pairs of wires.
  - The most common color coding scheme is **the "tip" and "ring" system:**
  - **Tip (Positive):** One wire in the pair.
  - **Ring (Negative):** The other wire in the pair.
  - Older cables may use red, green, black and yellow wires, while newer ones follow blue, orange, green and brown insulation colors.

- **Wiring Diagram for Standard Telephones:**

  The wiring diagram shows how telephone jacks are connected.

  Components include:

  - **Red Wire:** Connects to the tip (positive).
  - **Green Wire:** Connects to the ring (negative).
  - **Blue and White Wire:** Another pair for additional lines.
  - **White and Blue Wire:** Yet another pair for more lines.
  - **Quick Fix Tip:** If you get a dial tone but no tones when dialing, reverse the wire pair.

- **Installing a Telephone Wall Jack:**
  - Most wall phone jacks come configured for 2-line service (even for 1-line phones).
  - Spare pairs can be used for additional lines or backup.
  - Consider installing near an existing wall receptacble for low voltage transformers.

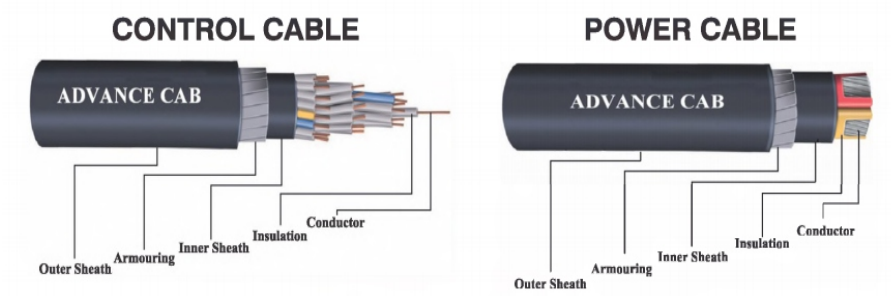
Remember, understanding telephone cable wiring ensures reliable communication. If you have any specific questions or need further details, feel free to ask!

CABLES & WIRES

CABLES & WIRES

Power and control cables:

ATC make Power and control cables as per **IS 1554:1988**, which pertains to **PVC Insulated (Heavy Duty) Electric Cables** for working voltages up to and including **1100 volts**:



Scope:

- This standard covers requirements and tests for armoured and unarmoured single-core, twin-core, three-core, and multi-core PVC insulated and sheathed cables.
- These cables are used for electric supply and control purposes.

Construction and Features:

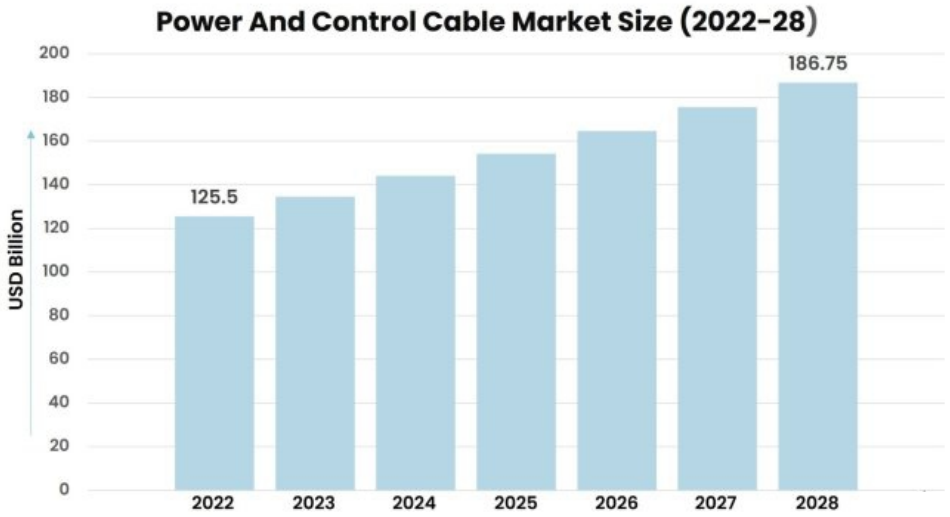
- **Conductor Material**: The conductors can be made f **aluminium** or **copper**.
- **Conductor Construction**: Conductor types include **solid (Class 1)** or **stranded (Class 2)**.
- **Number of Cores**: The cables can have **single-core to multicore** configurations.
- **Insulation Type**: The insulation can be either **Type A** or **Type C**.
- **Sheath Type:** The outer sheath is classified as ST1 or ST2.
- **Armoured/Unarmoured:** These cables can be armoured or unarmoured.

Operating Voltage:

These cables may be operated continuously at a power frequency voltage up to **10 percent higher** than the rated voltage.

Short Circuit Ratings:

The short circuit ratings of cables covered by this standard are under preparation.



Power cables with XLPE insulation: A reliable choice

Power cables with ISI mark as per **IS 7098:1988**, which covers **Crosslinked Polyethylene (XLPE) Insulated PVC Sheathed Cables** for working voltages up to and including **1100 volts**:

Scope:

- The standard applies to both **armoured** and **unarmoured** single, twin, three, four, and multi-core cables.
- These cables are designed for **electric supply** and **control purposes**.

Construction:

- **Insulation**: The cables feature **crosslinked polyethylene (XLPE)** insulation, which enhances their durability and electrical properties.
- **Sheath**: The outer sheath is made of **PVC** (polyvinyl chloride), providing additional protection.

Features of XLPE-Insulated Cables:

- **High Thermal Resistance**: XLPE does not melt like thermoplastics and remains thermally resistant even at elevated temperatures (up to 120°C for longer periods and up to 250°C for short durations without mechanical or electrical load).
- **Enhanced Properties**: Compared to ordinary polyethylene (PE), XLPE offers significantly improved properties.
- **Dielectric Excellence**: XLPE has excellent dielectric properties, making it suitable for medium and high-voltage cables (up to 380 kV AC and several hundred kV DC).
- **Rated Maximum Conductor Temperature**: XLPE-insulated cables have a rated maximum conductor temperature of 90°C and an emergency rating up to 140°C, depending on the standard used.
- **Shear Modulus:** Increasing crosslinking density enhances the shear modulus, especially in high-voltage cable applications.

Advantages of XLPE Insulation:

- **Cost Efficiency:** XLPE insulation provides cost-effective operation and procurement compared to older impregnated paper systems.
- **Environmental Friendliness:** It has lower environmental and maintenance requirements.
- **Wide Application Range:** Used in power transmission, distribution, and other critical systems.
- **Quality assurance:** All cables are ISI marks with BIS standards ISI:1554 (Part-1) 1988, ISI:7098/1990, ISI:14255 (Part-1)

Applications of XLPE-Insulated Cables:

- **Power Transmission and Distribution:** XLPE cables are widely used for power transmission and distribution purposes.
- **High Voltage Electrical Cables:** XLPE serves as insulation for high-tension electrical cables.
- **HVAC Industry**: Used on copper pipes, MS pipes, drainpipes, chilled water pipelines, AC ducts, and air handling units.

ATC (which stands for **Advanced Technology Cables**) is synonymous with **quality, safety, and reliability**. Just as a well-insulated cable ensures longevity and efficiency, ATC's commitment to excellence ensures that your buildings are constructed with the utmost care and durability. Whether it's a warehouse, office, school, or factory, ATC's cables contribute to the robustness and longevity of your projects.

CABLES & WIRES

Empowering Connections

ATC and ATC PRO MAKE Pvc Insulated copper conductor multi strand building wires and cables(IS:694/2010): A Comprehensive Overview **IS:694/2010**, also known as the **Indian Standard for Polyvinyl Chloride (PVC) Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductors for Rated Voltages up to and Including 1100 V**, outlines the specifications for electrical cables used in various applications. Let's delve into the details:

Standard Details:

- **Title**: Polyvinyl chloride insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V
- **BIS Number**: IS 694:2010
- **Scope:** This standard covers cables with circular copper conductors and rated voltages up to 1100v

Technical Specifications:

- **Conductors**: Conductor materials include solid, stranded, and flexible copper. Conformity with IS:8130-2013, Class I,II and V
- **Insulation**: Insulation materials include PVC, FR PVC, FR-LSH, LSZH, XL LSZH, and HRFR.
- **Rated Voltage**: Up to and including 1100 Volts.
- **Flexibility**: Excellent flexibility for ease of installation.

Sheath and Dimensions:

- The sheath shall be extruded in a single/double and triple layer on the core (single-core cables) or on the assembly of cores and fillers (other cables).
- The sheath does not adhere to the cores and may include a separator or talcum powder.
- The overall dimensions of the cables must meet specified limits, including ovality requirements.

Testing:

High Voltage Test (Water Immersion Test): A sample is immersed in a water bath at 60 ± 3°C.

- Voltage is gradually increased to 6 kV (rms) within 10 seconds and held constant for 5 minutes.
- The core must withstand this test without breakdown.
- Additional dc voltage testing is also performed
- Loss of mass testing
- Tensile testing for strength of cables enlongation.
- Conductor resistance testing for conductor purity.
- Thermal testing for check cable life in certain conditions.
- Flammability test for cables fire resistance capacity.
- Oxygen index testing for FRLS cables
- All types of cables testing is in-house in our state of art test laboratory.
- Spark testing of cables: To ensure quality every meter of wires under goes high voltage spark testing which eliminating weak spots of cables

Features of Pvc Insulated Copper multi strand cables:-

Constructon: These cables consist of multiple copper strands, enhancing flexibility and conductivity.

CABLES & WIRES

Flexibility: These wires are designed to bend, twist, and coil without compromising performance. Their inherent toughness makes them ideal for use over a wide range of applications.

Insulation: Each meter of wire is insulated with a special grade **PVC compound**, confirming to **IS:5831/1984** standards. This insulation offers high resistance and ensures safe electrical transmission.

Acid, Alkali, and Oil Resistance: ATC Round Flexible Wires resist acids, alkalies, oils, solvents, and fire, making them suitable for challenging environments.

Easy Installation: Their flexibility and ease of handling make installation hassle-free, especially in tight spaces. The multi strand copper cables are made with special skin coating pvc which helps to easy install cables in conduit wiring.

Application of cables :-

- **Domestic Wiring**: Use these wires for home electrical installations, including lighting, power outlets, and appliances.
- **Industrial Machinery**: Ideal for connecting motors, pumps, and other machinery where flexibility is crucial.
- **Automotive**: ATC Round Flexible Wires find applications in automotive wiring harnesses.

Quality Assurance:-

- **ISI Certified**: Our Round Flexible Wires meet **ISI:694/1990** standards, ensuring safety and reliability.
- **Spark Tested**: Each meter of wire undergoes high-voltage spark testing to eliminate weak spots in the insulation.
- Choose ATC Round Flexible Wires for seamless connectivity and peace of mind

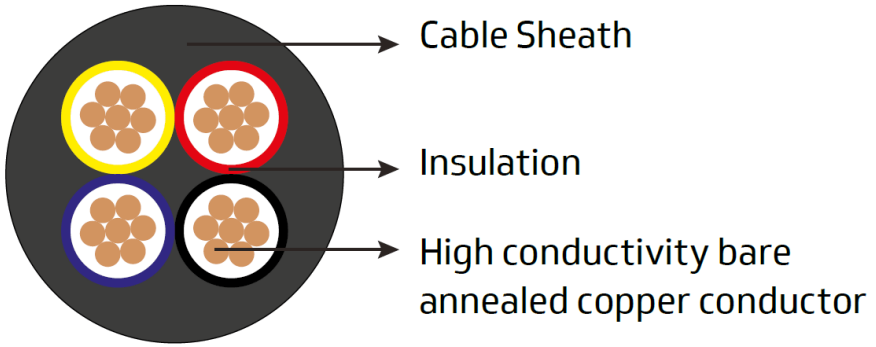
CABLES & WIRES

ATC Cables Round Flexible Wires: Versatile and Reliable

Introduction :

ATC Cables has been a trusted name in the cable industry since **1991**. Our commitment to quality and safety has made us a preferred choice for electrical solutions. Let's explore our **Round Flexible Wires**, which offer versatility and reliability for various applications.

Cable Cross Section View



ATC Round Flexible Wires and Submersible Cables

- **Flexibility**: These wires are designed to bend, twist, and coil without compromising performance. Their inherent toughness makes them ideal for use over a wide range of applications.

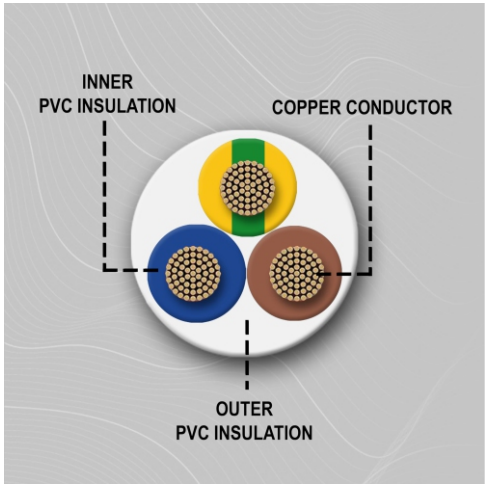
- **Insulation**: Each meter of wire is insulated with a special grade **PVC compound**, confirming to **IS:5831/1984** standards. This insulation offers high resistance and ensures safe electrical transmission.
- **Acid, Alkali, and Oil Resistance**: ATC Round Flexible Wires resist acids, alkalies, oils, solvents, and fire, making them suitable for challenging environments.
- **Easy Installation**: Their flexibility and ease of handling make installation hassle-free, especially in tight spaces.

ATC Aluminum Single and Twin core cables

Features of Al single core and Twin core cables:

- **Application:** Domestic wiring use for home industries and temporary wiring uses in construction sites and temporary structure wiring. Also uses from distribution electricity company poles to domestic meters.
- **All Weather Conditions:** ATC aluminum cables are also made for all weather conditions to install wires in outside against the sun and raining.

ATC Cables Private Limited is a reliable manufacturer of building wires that adhere to IS:694/2010 standards. These cables play a crucial role in electrical installations, ensuring safety and efficient power distribution with safety from fire. For more information, visit www.atccable.com



CABLES & WIRES

ATC Submersible Cables:

Introduction

ATC Cables is a name synonymous with quality and reliability. Our Submersible Cables are engineered to thrive in the depths, ensuring seamless electricity and data transmission even in the harshest aquatic environments. Let's dive into the world of submersible cables, exploring their construction, applications, and why ATC is a trusted industry leader.

Understanding Submersible Cables: Submersible cables are purpose-built to function underwater, making them indispensable in various sectors:

- **Agriculture**: These cables power submersible pumps for irrigation, ensuring a consistent water supply to farms.
- **Oil & Gas**: Vital for offshore drilling and underwater equipment in the oil and gas industry.
- **Marine Exploration**: Used in underwater research, helping scientists explore the ocean's depths.
- **Wastewater Treatment**: Critical for powering pumps and sensors in treatment plants.

Key Features of ATC Submersible Cables:

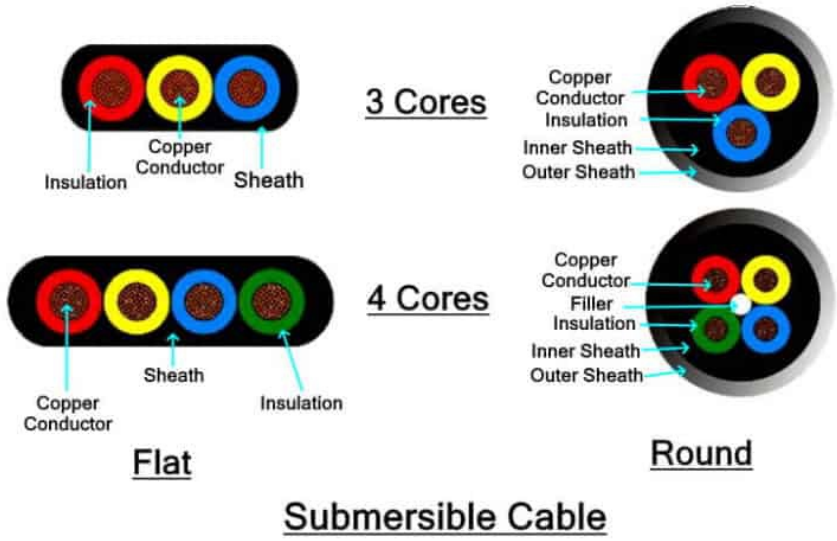
Our submersible cables stand out due to their exceptional features:

- **Waterproof Insulation**: ATC's submersible cables feature advanced waterproof insulation, protecting against water ingress even when fully submerged.
- **Robust Armor**: Equipped with sturdy outer armor, these cables withstand mechanical damage, making them ideal for challenging underwater environments.
- **Corrosion Resistance**: The materials used in ATC submersible cables resist corrosion, ensuring a long service life in harsh conditions.

Quality Assurance:

ATC, quality is paramount:

- **ISI Certified**: Our submersible cables adhere to international standards (ISI:694/1990).
- **Rigorous Testing**: Each meter of wire undergoes high-voltage spark testing to eliminate weak spots in the insulation.



Conclusion

Submersible cables are the unsung heroes that keep industries afloat, quite literally. Trust ATC Cables to deliver excellence beneath the surface. Explore our range of submersible cables and experience unparalleled performance in the depths!

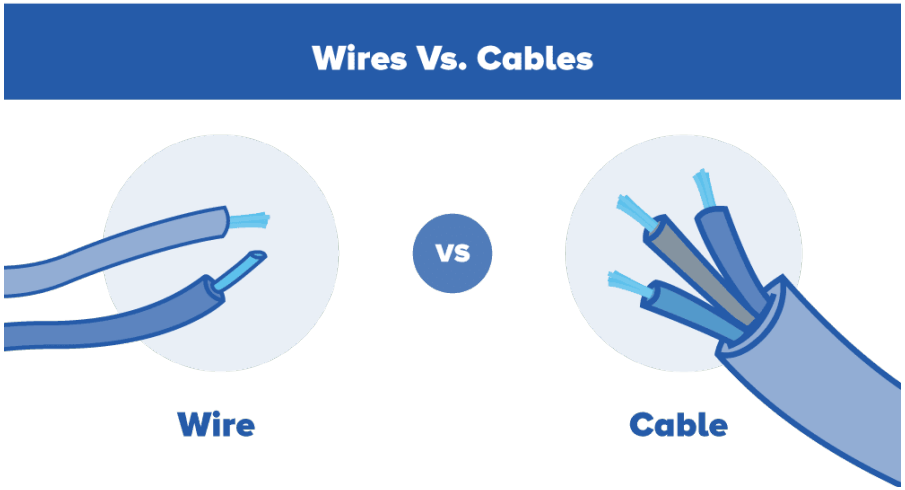
CABLES & WIRES

Electrical Wire vs. Electrical Cable

Homeowners and electricians alike casually use the term "wire" and "cable" interchangeably, but there is a significant difference.

The electrical code officially refers to wires as "conductors," but let's just call them wires to make it easy. Wires can be bare, such as for grounding and bonding electrical equipment and circuits. Or they can be covered with a material that only provides protection from corrosion and does not officially qualify as electrical insulation.

Most of you are probably familiar with the colorful wires encased in a code-recognized plastic insulating material. In the early years of electrical wiring, wires were insulated with black rubber. Today they're insulated various high-tech materials that can withstand harsh environments and conditions. These can be underground; submerged in water; or exposed to sunlight, vibration, chemicals or high temperatures.



Individual electrical wires are generally required to be installed in metal or plastic conduit. The combination of the wires and conduit results in a complete wiring system.

On the other hand, a cable is a factory assembly of two or more bare, covered or insulated wires, enclosed in an overall nonmetallic or metallic sheath for physical protection. Unlike individual wires, cables are a standalone wiring system and are generally not required to be installed in conduit.

Aerial Bunch Cables(ABC):Enhance safety and efficiency

ATC make Aerial Bunch Cables as per **IS 14255:1995**, which pertains to **Aerial Bunched Cables (ABC)** for working voltages up to and including **1100 volts**:

Scope:

- This standard outlines the requirements for **Polyethylene/crosslinked polyethylene insulated cables** with **aluminium conductors**.
- These cables are designed for use as **overhead distribution feeders**.

Construction and Features:

- **Insulation**: The cables have **polyethylene (PE)** or **crosslinked polyethylene (XLPE)** insulation UV rays protected.
- **Conductors**: They feature **aluminium conductors**.
- **Twisting Design**: The insulated conductors (usually 3 or 4 in number) are twisted around a **high-strength aluminium alloy bearer wire**.
- **Earth-Cum-Neutral Wire**: The bearer wire serves as both the **earth** and **neutral** wire and with street light conductor (optional).
- **Safety and Fault Minimization**: The ABC system ensures safety, practically eliminates low-tension (LT) faults, minimizes supply interruptions, reduce transmission losses and extends the life of transformers.

CABLES & WIRES

Advantages of Aerial Bunched Cables (ABC):

- **Safety:** The phase conductors are not under tension, making it a safe system.
- **Fault Reduction:** LT faults are significantly reduced compared to bare conductors.
- **Tree Clearance:** The problem of tree clearance is minimized.
- **Practical Elimination of LT Faults:** Interruptions of supply are minimized due to the system's design.
- **Power saver:** reduced the transmission losses and theft proof cables.

Reduction in Power Losses:

- The bundled configuration of ABC reduces power losses, enhancing the overall efficiency of the power distribution system.
- Closer proximity of conductors minimizes electromagnetic fields and reduces energy losses through induction and radiation.

Resistance to Environmental Factors:

- ABC is designed to withstand UV radiation, moisture, temperature variations, and chemical exposure.
- The insulation materials used provide excellent resistance to weather conditions, preventing degradation and ensuring long-term performance.

Improved Reliability and Performance:

- The bundled configuration enhances the reliability of power distribution networks.
- ABC is less prone to damage from tree branches, birds or external disturbances, reducing downtime and improving overall network performance.

Cost-Effectiveness:

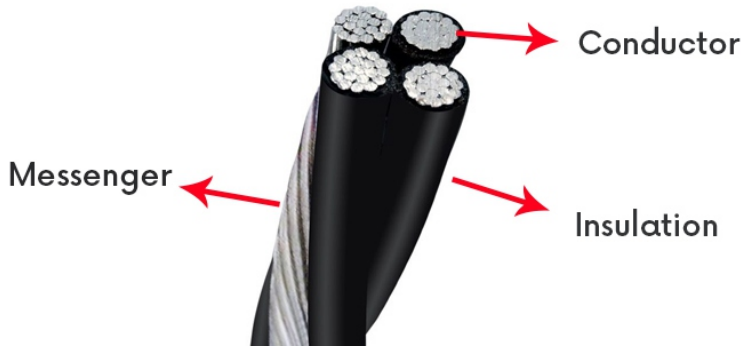
- ABC eliminates the need for separate insulators, reducing installation and maintenance costs.
- Fewer supporting structure(poles and towers) result in reduced infrastructure expenses1.

Easy Installation and Maintenance:

- ABC is relatively easy to install compared to bare conductor systems.
- The bundled configuration simplifies installation, reducing labor costs.
- Minimal maintenance is required due to its durable construction and resistance to environmental factors1.

Compatibility with Existing Infrastructure:

- ABC seamlessly integrates into existing power distribution infrastructure.
- It is compatible with various pole-mounted or overhead line systems allowing for upgrades or replacements without significant modifications.

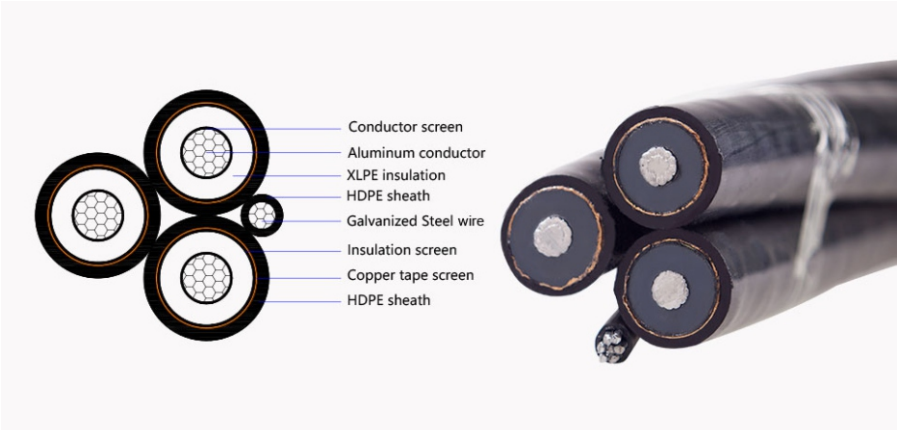


Application:

ABCs are commonly used for **overhead distribution** in various settings.

Standard Details:

Title: Aerial Bunched Cables for working voltages up to and including **1100 Volts** IS:14255/1995.



In conclusion, Aerial Bunch Cables are a reliable and cost-effective alternative for overhead power lines. They withstand harsh weather conditions and provide better protection against electrical faults and short circuits2. Whether in rural areas, urban settings, or industrial zones, ABC ensures efficient and safe electricity distribution.

CABLES & WIRES

Shed some light on **ATCOM LED Lighting**, proudly crafted by **ATC Cables Private Limited**.

ATCOM LED Lighting: Where Quality Meets Illumination

ATCOM and ATCOM MEGHA renowned under the brand name **ATC**, stands as a beacon in the world of designer decorative lighting solutions. Here's why our lighting products are more than just design; they boast **uncompromising quality**:

Diverse Range:

- Our extensive range covers everything from ambient ceiling lights to vibrant LED strips.
- Whether you seek elegance, functionality, or artistic flair, ATCOM has a solution for every space.

In-House Manufacturing and Global Sourcing:

- ATCOM not only manufactures its own lighting products but also collaborates with renowned solution providers worldwide.
- We curate the best, ensuring that each product meets our stringent quality standards.

Mega Waterproof LED Strip Lights:

- The **Atcom Mega Waterproof LED Strip Lights** are perfect for decoration.
- With multicolor options, these corded electric strips add vibrancy to any setting.

ATCOM LED Product Range:

- Illuminate your spaces with our decorative and designer **Ceiling Lights**.
- Decorative and designer wall lighs
- Street Light out door lighting
- Flood lights outdoor lighting
- Strip Lights for home office
- Led Panel lights for home and office indoor lighting
- Garden lighting
- Technical lighting solutions for home office farm houses and shopping malls.

ATCOM's Legacy:

- **Year of Establishment**: 2011
- **Sister concern**: All True Components
- **Nature of Business**: Manufacturer, Importers

Visit Us: **Location**: Display at Pitam Pura, New Delhi-10034

ATC® ACCURATE TRANSMISSION CABLE

ATCOM MEGA

ATCOM LIGHTING

ATC PRO ACCURATE TRANSMISSION CABLE

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