CHANGE THE WORLD FOR A BETTER FUTURE





Perforated cable tray | Perforated accessories | Ladder type cable tray Ladder accessories | Wiremesh cable tray | Wiremesh accessories | Grating



Business Since 22 Year

We Are Manufacturers Of All Type Of Cable Tray And Grating An ISO 9001-2015 Certified Company

Abouts Us

Saar Industries is a leading manufacturer and supplier of high-quality cable tray systems, dedicated to delivering innovative solutions for cable management in industrial, commercial, and infrastructure projects. With years of expertise, we specialize in designing and producing cable trays that combine durability, functionality, and versatility, catering to a wide range of industries including construction, energy, telecommunications, and more.At Saar Industries, we are committed to excellence in every aspect of our business. Our state-of-the-art manufacturing facility, powered by cutting-edge technology and skilled professionals, ensures that our products meet the most stringent industry standards. We pride ourselves on offering a comprehensive product portfolio that includes perforated, ladder, wire mesh, and custom-designed cable trays, all crafted to meet the specific needs of our customers. We are more than a manufacturer—we are your reliable partner in ensuring efficient and safe cable management.

Quality Assurance

At Saar Industries, quality is the cornerstone of our operations. Our robust Quality

Assurance (QA) program ensures that every cable tray we produce adheres to international standards

and surpasses customer expectations.

Key Elements of Our QA Process:

✓ Material Excellence:

We source premium-grade raw materials to ensure long-lasting performance, corrosion resistance, and structural integrity.

✓ Advanced Manufacturing:

Our production processes are powered by advanced machinery and techniques, minimizing errors and ensuring precision in every product.

✓ Saar Industries:

Stands by its promise of delivering not just products, but trust and reliability. Our dedication to quality assurance is a testament to our mission of enabling efficient and safe cable management systems worldwide.

▼ Rigorous Testing:

Each product undergoes stringent quality checks, including load-bearing tests, corrosion resistance evaluation, and dimensional accuracy inspections, to guarantee reliability in real-world applications.

✓ Compliance with Standards:

All Saar Industries cable trays are designed and manufactured in compliance with global standards such as IEC, NEMA, and ISO, ensuring safety and compatibility across diverse projects.

Continuous Improvement:

We are committed to continuous improvement through feedback from clients and the integration of new technologies, ensuring our products remain at the forefront of innovation.







Industries We Serve

Applications of Cable Trays Cable trays are essential components in modern electrical and cable management systems. They provide a safe, organized, and efficient method for routing and supporting cables across various environments. Here are the key applications of cable trays:

1.

1. Industrial Facilities

Cable trays are widely used in industries such as manufacturing, automotive, oil & gas, and chemical plants. They help organize power and control cables, ensuring operational efficiency and safety.

- Applications: Routing cables for machinery, control panels, and industrial equipment.
- Benefits: High durability, corrosion resistance, and capacity to handle heavy loads.



3. Infrastructure Projects

Large infrastructure projects such as airports, railway stations, and highways rely on cable trays for seamless cable management.

- Applications: Power distribution, signaling systems, and communication networks.
- Benefits: Resistance to environmental factors and scalability for large-scale projects.



5. Renewable Energy Plants

In solar, wind, and hydroelectric power plants, cable trays are used to manage power cables, control cables, and instrumentation wiring.

- Applications: Supporting photovoltaic panel wiring and connecting turbines or generators to power grids.
- Benefits: Resistance to harsh environmental conditions and UV exposure.



7. Marine and Offshore Platforms

Cable trays are crucial for offshore oil rigs, ships, and marine applications, where exposure to corrosive environments is a concern.

- Applications: Routing power and communication cables across decks and structures.
- Benefits: High corrosion resistance, weather proofing, and robust construction.



From office complexes to retail centers, cable trays are integral for managing electrical wiring, data cables, and communication systems in commercial spaces.

- Applications: Supporting network cables, HVAC control systems, and lighting circuits.
- Benefits: Aesthetic appeal, ease of maintenance, and adaptability for future expansions.



Cable trays are essential in data centers, where efficient cable management is critical to maintaining system performance and reliability.

- **Applications:** Routing fiber optic cables, power cables, and network cables.
- Benefits: Enhanced airflow, reduced cable clutter, and simplified troubleshooting.



6. Healthcare Facilities

Hospitals and healthcare centers require reliable and organized cable management for medical equipment, communication systems, and power supply.

- Applications: Supporting medical imaging systems, lighting, and life-support equipment.
- Benefits: Hygienic and fire-resistant solutions for sensitive environments.

8. Educational and Public Buildings

Schools, universities, and government buildings use cable trays for managing power and communication cables efficiently.

- Applications: Supporting lighting systems,
 PA systems, and computer networks.
- Benefits: Cost-effectiveness and ease of maintenance *Why Use Cable Trays?
- Versatility: Suitable for various industries and applications.
- Durability: Resistant to environmental and mechanical stresses.
- **Scalability:** Easy to expand or modify as systems grow.
- Safety: Reduces risk of fire and electrical hazards by ensuring proper cable management.











PRODUCTS

Perforated Cable Trays:

Perforated cable trays are an essential component of cable management systems, designed to support and route cables efficiently in industrial, commercial, and residential setups.

The terms GI, HDG, and SS refer to the materials and finishes used for these trays.

1. GI (Galvanized Iron)

- ✓ Material/Finish: Made from steel sheets that are galvanized (coated with a layer of zinc).
- ✓ Properties: Corrosion-resistant to some extent.
 Economical and widely used in indoor environments.
 Suitable for areas with moderate exposure to moisture.
- ☑ Applications: Indoor installations like data centers, offices, and light industrial setups.

2. HDG (Hot-Dip Galvanized)

- ✓ Material/Finish: Steel is coated with a thicker layer of zinc by immersing it in molten zinc.
- ✓ Properties: Provides enhanced corrosion resistance compared to GI.
 Suitable for outdoor environments or areas with high humidity.
 Tougher and longer-lasting than pre-galvanized steel.
- ✓ **Applications:** Outdoor installations, industrial plants, marine environments, and places exposed to weathering.

3. SS (Stainless Steel)

- Material/Finish: Made from stainless steel alloys (commonly SS304 or Ss316).
- ✓ Properties: Excellent corrosion resistance, even in highly acidic or saline environments. High strength and durability.

More expensive than GI or HDG.

Applications: Food processing plants, chemical industries, pharmaceutical setups, and marine environments.

Key Differences:			
Feature -	GI	HDG	SS
Corrosion -	Resistance	Moderate High	Very High
Durability -	Moderate	HighVery	High
Cost Economical -	Moderate	Expensive	Very Expensive
Best for -	Indoor use	Outdoor use	Harsh environments





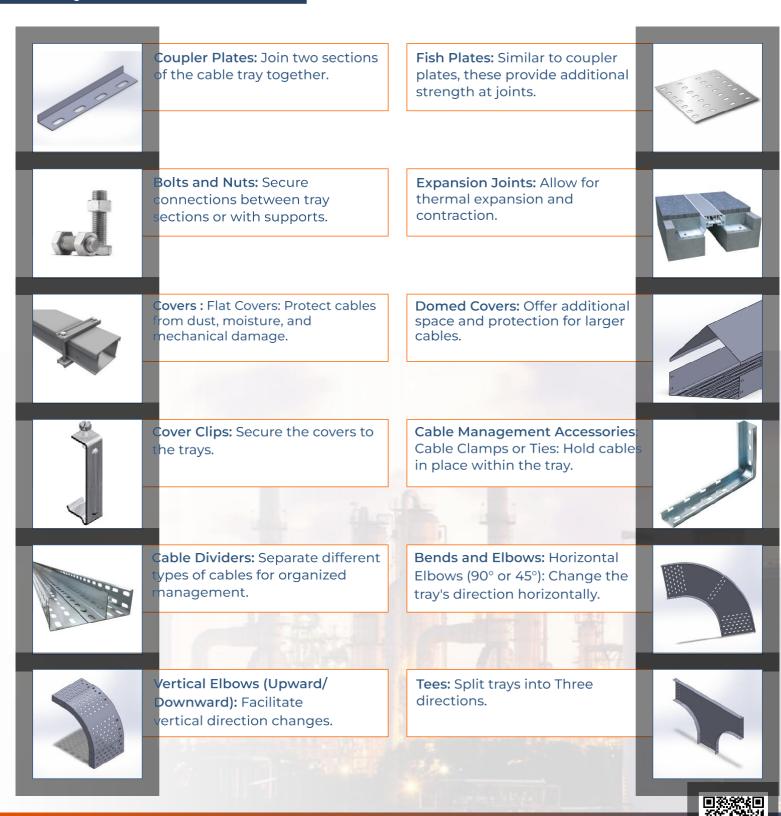


Perforated Cable Tray Accessories:

Perforated cable tray accessories add with this Accessories for Perforated Cable Trays are essential components that aid in the proper installation, support, and management of cables in industrial, commercial, and residential applications.

List of Common Accessories

1. Tray Connection Accessories:





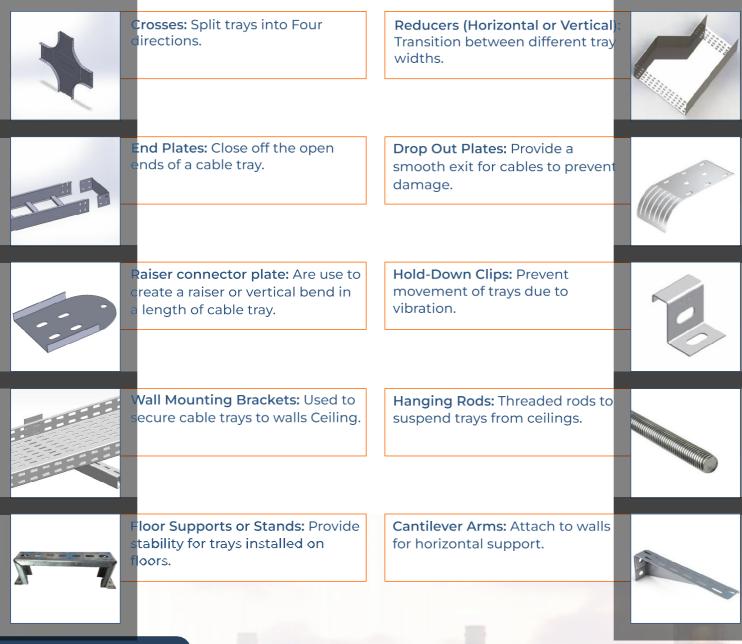




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3. Material Options:

- **✓ Galvanized Steel:** Commonly used for indoor installations.
- ✓ Hot-Dip Galvanized Steel (HDG): Best for outdoor or corrosive environments.
- **✓ Stainless Steel:** Offers superior corrosion resistance.
- ✓ **Aluminum:** Lightweight and corrosion-resistant for lighter-duty applications.
- **▼ Powder-Coated Steel:** Provides an aesthetically pleasing finish with additional protection.





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Ladder Type Cable Tray:

A ladder-type cable tray refers to a specific type of cable tray used for organizing, supporting, and protecting electrical cables in industrial, commercial, and utility applications.

1. GI (Galvanized Iron)

Refers to the material used for the cable tray. The tray is made from steel that is galvanized (coated with zinc) to enhance corrosion resistance.

2.HDG (Hot-Dip Galvanized):

✓ Specifies the galvanization process where the steel is submerged in molten zinc to form a durable, corrosion-resistant coating. Offers excellent protection in outdoor or humid environments.

3.Ladder Type Cable Tray:

Indicates the design of the tray, resembling a ladder. It consists of two longitudinal side rails connected by rungs at regular intervals.

✓ THIS DESIGN ALLOWS:

Better air circulation around the cables.

Easy access for maintenance.

Support for heavy-duty cables.

- ✓ **Applications:** Widely used in industries such as power generation, oil and gas, telecommunications, and manufacturing. Ideal for environments where strong support and resistance to environmental factors are required.
- Advantages: High load-carrying capacity. | Corrosion resistance due to HDG coating.

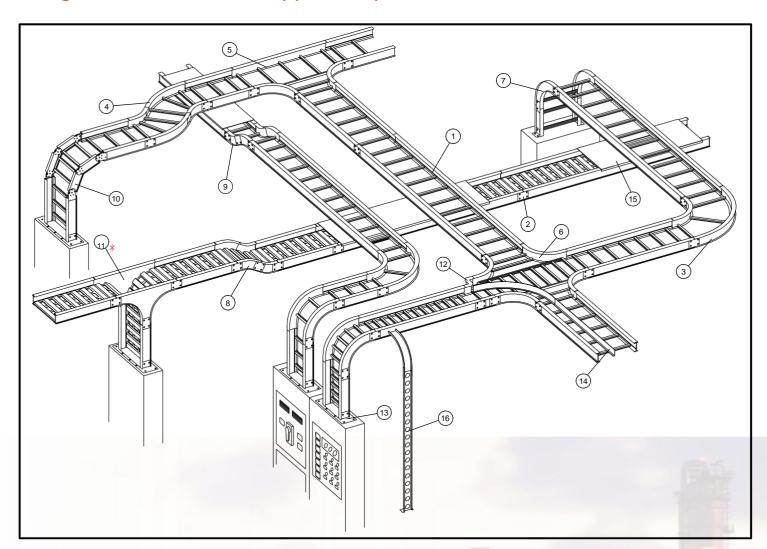
 Easy to install and maintain. | Allows for cable heat dissipation, preventing overheating.





Cable Tray Systems

Designed for Your Cable Support Requirements



Nomenclature

- 1 Ladder Type Cable Tray
- 2 Straight Splice Plate
- 3 90° Horizontal Bend, Ladder Type Cable Tray
- 4 45° Horizontal Bend, Ladder Type Cable Tray
- 5 Horizontal Tee, Ladder Type Cable Tray
- 6 Horizontal Cross, Ladder Type Cable Tray
- 7 90° Vertical Outside Bend, Ladder Type Cable Tray
- 8 45° Vertical Outside Bend, Ventilated Type Cable Tray

- 9 30° Vertical Inside Bend, Ladder Type Cable Tray
- 10 Vertical Bend Segment (VBS)
- 11 Vertical Tee Down
- 12 Left Hand Reducer, Ladder Type Cable Tray
- 13 Frame Type Box Connector
- 14 Barrier Strip Straight Section
- 15 Solid Flanged Tray Cover
- 16 Ventilated Channel Straight Section
- 17 Channel Cable Tray, 90° Vertical Outside Bend









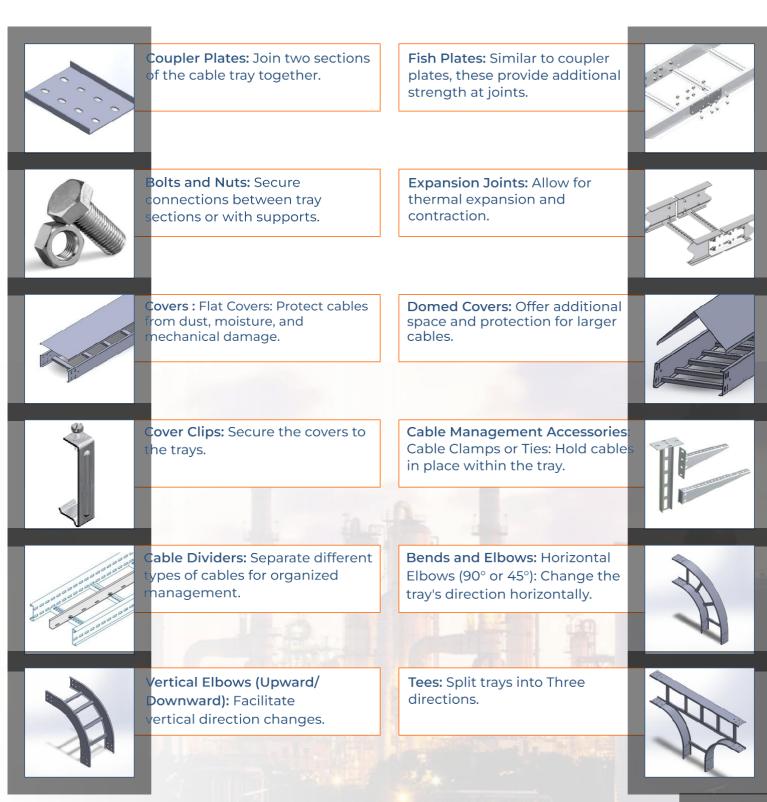


Lader Tray Cable Accessories

Ladder Tray Cable Accessories are essential components designed to enhance the functionality, safety, and ease of installation of ladder-type cable trays. Here's a detailed guide to the most common and important accessories for GI and HDG Ladder.

List of Common Accessories

1.Common Accessories for GI and HDG Ladder Trays:















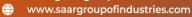
















Wire Mesh Type Cable Trays

A wire mesh cable tray is a versatile and lightweight cable management solution primarily used for supporting low-voltage, data, and communication cables in commercial and industrial settings.

1. Overview of Wire Mesh Cable Tray:

- Material: Typically made of steel wires that are welded into a mesh structure. Options include: Galvanized steel for basic corrosion resistance. Stainless steel for superior durability in harsh environments. Electroplated or powder-coated finishes for additional protection.
- Design: Open, grid-like design allows for, Easy cable installation and modification. Superior ventilation for heat dissipation. A lightweight and adaptable structure.

2. Advantages:

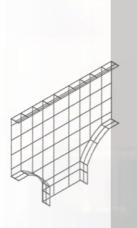
- Flexibility: Can be easily cut, bent, and shaped to fit around obstacles or complex layouts.
- Airflow and Heat Dissipation: Open design allows free airflow, preventing cable overheating.
- **Y** Ease of Installation: Lightweight and modular design makes it easy to install and reconfigure.
- ✓ Cost-Effective: Lower material usage compared to solid trays reduces costs.
- ✓ Corrosion Resistance: Available with coatings like galvanized or stainless steel for durability.

3. Applications:

- ✓ **Data Centers:** Supports structured cabling for IT systems.
- ▼ Telecommunications: Organizes fiber optic and low-voltage cables.
- ✓ Commercial Buildings: Ideal for lighting and data network cables.
- ✓ Industrial Facilities: Used in areas requiring frequent cable modifications. Comparison with Other Tray Types Feature Wire Mesh Perforated Ladder Airflow Excellent Good Excellent Ease of ModificationVery HighModerate Moderate Load Capacity Light to MediumMedium Heavy Cable Visibility High Moderate Moderate Applications Data/IT cables General purpose wiring Power/heavy cables.

4. Cost:

✓ Price Range: ₹100 to ₹500/meter (India) or \$5 to \$15/meter (international markets), depending on material and specifications.



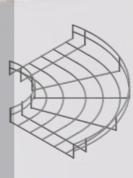


50 TRAY HOLDER



















RACEWAY



A GI (Galvanized Iron) or Aluminum raceway refers to a protective channel used in electrical systems to house and organize electrical wires or cables. These raceways provide mechanical protection, maintain neat wiring layouts, and ensure compliance with electrical codes.

Comparison of GI and Aluminum Raceway:

Key Differences:			
Feature	GI Raceway	Aluminum Raceway	
Material	Made of galvanized iron, offering corrosion resistance.	Made of aluminum, lightweight and corrosion-resistant.	
Weight	Heavier than aluminum.	Lighter, easier to install.	
Corrosion Resistance	Moderately resistant; can rust if the galvanization wears off.	Excellent resistance due to oxide layer.	
Cost	Generally cheaper than aluminum.	More expensive than GI	
Strength	High mechanical strength	Ideal for heavy-duty applications	
Applications	Industrial environments	Heavy-duty installations.	
Protection	Shields cables from physical damage, moisture, and chemical exposure.		
Organized Wiring	Keeps wiring neat and accessible for maintenance.		
Safety Compliance	Meets safety and fire code requirements.		

Types of Raceways:

- Surface-mounted raceways: Installed on walls or ceilings for visible wiring.
- **▼ Floor raceways:** Protect wires under floors.
- ✓ Conduits: Tubular raceways, flexible or rigid.

1. Material and Construction:

- ✓ GI Raceway: Made from galvanized iron with a zinc coating to prevent rust. Commonly available in rectangular or square cross-sections.
- Thickness: Ranges between 1.2 mm to 2.5 mm depending on load and application.
- Finish: Pre-galvanized or hot-dip galvanized for additional corrosion resistance. Suitable for industrial environments with heavy loads or high mechanical stress.
- Aluminum Raceway: Constructed from lightweight aluminum alloy. Natural oxide layer provides excellent corrosion resistance. Often available with anodized or powder-coated finishes. Commonly used in applications where weight matters or in environments exposed to moisture, like coastal areas.

2. Applications:

- ✓ GI Raceways: Heavy-duty environments, such as factories, warehouses, and power plants. Suitable for outdoor installations, provided additional coating is applied for severe weather. Frequently used in industries requiring high mechanical strength.
- ✓ Aluminum Raceways: Ideal for commercial buildings, retail spaces, and residential applications. Preferred for suspended ceilings, modular offices, and lightweight structures. Excellent for installations in damp or corrosive environments (e.g., chemical plants, coastal zones).





HANGER



CROSS













Gratings

Gratings are strong, durable, and corrosion-resistant grid structures commonly used in industrial and commercial applications.

1. What Are Gratings?

- Gratings: Made by welding flat steel bars (bearing bars) to crossbars, forming a rigid and strong structure. Designed to handle heavy loads with high durability.
- **✓** Galvanization:
 - GI (Galvanized Iron): Steel bars are galvanized with a zinc coating to provide basic corrosion resistance.
- HDG (Hot-Dip Galvanized): Steel is immersed in molten zinc, resulting in a thicker and more uniform zinc coating, offering superior corrosion resistance compared to GI.

2. Features of Gratings:

- ✓ **High Strength:** Welded construction ensures durability and the ability to support heavy loads.
- ✓ Corrosion Resistance: Zinc coating (especially HDG) protects against rust and environmental wear, suitable for outdoor use.
- ✓ **Ventilation and Drainage:** Open grid design allows airflow, drainage, and prevents debris accumulation.
- Slip Resistance: Available in plain or serrated designs for enhanced safety.
- ✓ Long Lifespan: HDG gratings can last for decades with minimal maintenance.

3. Applications:

- ✓ Industrial Use: Platforms and walkways in factories and power plants. Trench and drainage covers. Stair treads and mezzanine flooring.
- ✓ Commercial Use: Ventilation and air circulation grilles. Parking lot drains and floorings.
- ✓ Outdoor Use: Bridges, docks, and access ramps. Areas exposed to harsh weather conditions due to HDG's superior rust resistance.
- ✓ Special Environments: Chemical plants and wastewater treatment facilities, where corrosion resistance is critical.

4. Specifications

- ✓ Material: Mild steel or stainless steel (for additional durability in harsh conditions).
- ✓ Bar Thickness: Typically 3 mm to 10 mm, depending on load requirements.
- ✓ Bar Spacing: Common options are 30x100 mm, 40x100 mm, or customized as needed.
- ✓ Sizes: Standard panels: 1 meter x 3 meters or customized dimensions.
- ✓ Surface: Available in plain or serrated (for anti-slip applications).
- ✓ Load Capacity: Categorized as light-duty, medium-duty, or heavy-duty, based on the thickness of the bearing bars and spacing.





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Earthing

GI and Copper Earthing Flat Patti (strip) is used in electrical earthing systems to provide a low-resistance path for fault currents. These are flat metal strips made of either GI or Copper, chosen based on the application and budget.

1.GI (Galvanized Iron) Flat Patti:

- ✓ Material: Made from galvanized iron, coated with zinc to prevent corrosion.
- ✓ **Applications:** Commonly used in industrial, residential, and commercial earthing. Suitable for cost-effective installations where moderate corrosion resistance is acceptable.
- ✓ Advantages: Economical compared to copper. Decent durability in less corrosive environments.
- Limitations: Not ideal for highly corrosive or saline environments as zinc coating can wear out over time.

2.Copper Flat Patti

- **✓ Material:** High-conductivity electrolytic copper.
- ✓ **Applications:** Preferred in areas requiring high durability, conductivity, and corrosion resistance. Used in critical electrical and industrial setups, such as substations and data centers.
- ✓ **Advantages:** Excellent conductivity and low resistance. Superior corrosion resistance.
- ✓ Limitations: Higher cost compared to GI.

2.GI and Copper Earthing Electrodes:

Electrodes are essential components of earthing systems, buried in the ground to provide an efficient connection to the earth.

GI (Galvanized Iron) Electrodes

- ✓ Material: Mild steel with a zinc coating.
- ✓ Applications: Widely used for standard earthing purposes in residential and commercial projects.
- Advantages: Cost-effective. Moderate life span in non-corrosive soil conditions. Types: Solid rod or pipe electrodes.
- ✓ Limitations: Less effective in highly corrosive soil or environments with high moisture content.

Copper Electrodes.

- ✓ Material: Pure copper or copper-bonded rods.
- Applications: Used in environments requiring superior conductivity and corrosion resistance, such as power plants and industrial zones.
- ✓ Advantages: Excellent performance in all soil types, including highly corrosive conditions. Long lifespan.
- ✓ Types: Solid copper rods. Copper-bonded rods (steel rods with copper coating for cost efficiency).
- ✓ **Limitations:** Higher initial cost.



















Our Clients





























































Brand Cretification & Approval









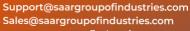


















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