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What is WIRING ????

ELECTRICAL WIRING

Electrical wiring is generally refers to insulated conductor used to carry current and associated device. This article describes general aspects of electrical wiring as used to provide power in buildings and structures, commonly referred to as building wiring.



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Points to be considered while selecting any system of wiring

- 1. life of installation
- 2. future extension or alterations
- 3. construction of building
- 4. fire hazards or other special conditions
- 5. corrosive fumes
- 6. dampness
- 7. type of wire and material used
- 8. nature of load (lighting of power)
- 9. safety of the system
- 10. cost of wiring system

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TYPES OF WIRING

DOMESTIC WIRING


COMMERCIAL WRING

INDUSTRIAL WIRING

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ELECTRICAL WORKING

The work being done generally falls into two categories: with tools or without tools. In either case, the worker should be protected by a circuit breaker or a fuse. The worker should also be protected by a circuit breaker or a fuse. The worker should also be protected by a circuit breaker or a fuse.



Types of working are according to the nature of the work.

- 1. Work on live
- 2. Work on dead
- 3. Work on earth

FACTOR AFFECTING THE CHOICE OF WORKING

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Three Core Wire

This is three core wire. It is pvc insulated wire.

Its used for 1-phase.

1. Blue wire for Neutral
(Returns current to power source)
 2. Brown for live wire
(Provides current to appliance)
 3. Yellow wire for earth
(Takes current to ground if appliance has fault)
- There is color code used for wiring & supply.



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CABLES VOLTAGE RATING

Shape

1. Flat
2. Round

Mechanical Protection

1. Unarmored
2. Armored

Voltage Rating

1. Low voltage cable.(1000V)
2. High voltage cable.(11KV)
3. Super tension cable.(upto 132kV)
4. Extra high tension.(132kV and more)
5. Ultra high voltage cables(400kV and more)

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Types of wiring

- Commonly used types of wiring systems for residential buildings ,commercial buildings etc.
- 1. Cleat wiring
- 2. Wooden casing and capping wiring
- 3. C. T. S or T. R. S. wiring
- 4. Metal Sheathed or Lead Sheathed wiring
- 5. Conduit wiring

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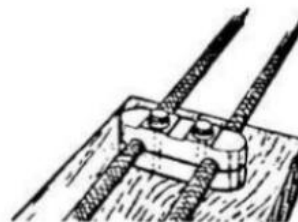
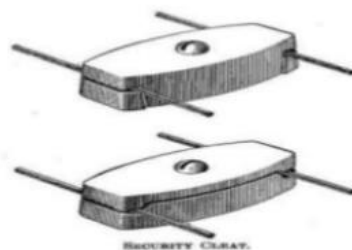
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Cleat wiring



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Cleat wiring


- ▶ Cleat wiring is normally used for temporary wiring purpose.
- ▶ Ex..functions, marriages...etc.
- ▶ In this type of wiring vulcanized india rubber(V.I.R) or polyvinyl chloride(PVC) insulated wires are used as conductors.
- ▶ Wires are held by the help of porcelain cleat which are placed 6mm off the walls or ceilings.



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Metal Sheathed Wiring



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Metal Sheathed Wiring

- ▶ **Field of application**
- ▶ This wiring system is suitable for low voltage (up to 250V) installations.
- ▶ It may be used in places exposed to sun and rain provided no joint is exposed.
- ▶ It may be used in damp placed with a suitable protective covering.
- ▶ This type of wiring is very common in use these days except for some small installations and distribution boards etc.

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Conduit Wiring



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Conduit Wiring

- ▶ **Field of application**
- ▶ 1. places where considerable dust of puff is present such as textile mills, saw mills, flour mills etc.
- ▶ 2. damp situations
- ▶ 3. in workshops for lighting and motor wiring
- ▶ 4. places where there is possibility of fire hazards such as in oil mills, varnish factories, etc.
- ▶ 5. placed where important documents are kept such as record room
- ▶ 6. residential and public buildings where the appearance is of prime importance

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Types of ELECTRICAL CONNECTIONS

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The first step is always to make sure that the circuit is safe. This means that the power should be turned off before any work is done. It is also important to use the correct tools and equipment for the job. For example, if you are working with live wires, you should wear insulated gloves and use insulated tools.


Types of wiring according to use

- 1. Power wiring
- 2. Control wiring
- 3. Signal wiring

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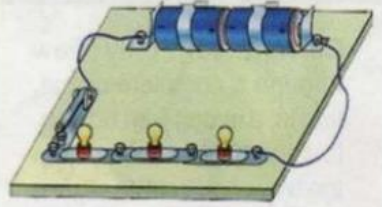
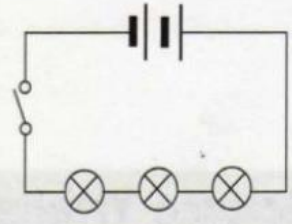
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Series Circuit

A series circuit is one that connects an electrical source with its components one after another, forming one single loop.




A series circuit

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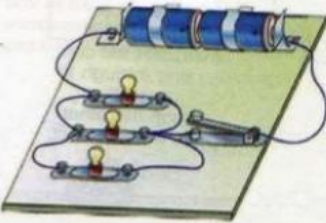
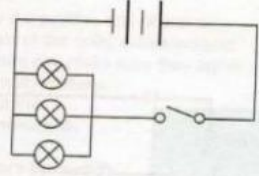
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Parallel circuit

A parallel circuit is one that splits into two or more branches.



A parallel circuit

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- A series circuit has only one path for the current to flow.
- The current is the same throughout the circuit in a series circuit.
- A parallel circuit has more than one path for the current to flow.
- The current, in general is different at different points for a parallel circuit.

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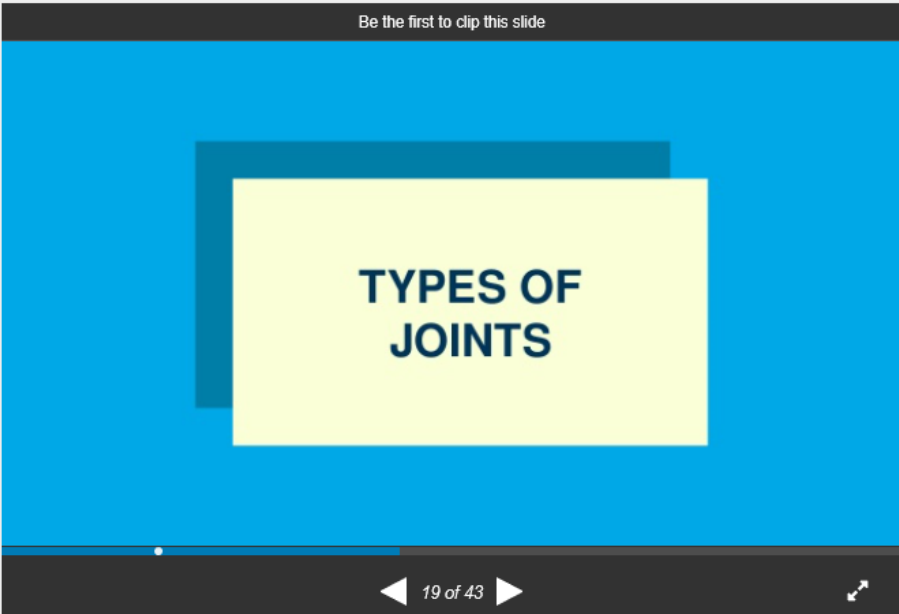
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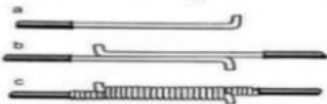
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DIFFERENT TYPES OF JOINTS

- Britannia Joint
- Straight Joint
- Tee Joint
- Western Union Joint

1. Britannia Joint : The Britannia joint is a form of electrical joint used for bare overhead wires where great tensile strength is required. The two wires are each tinned, and then each have a short shoulder bent in them, and are then bound together with tinned wire before the whole is



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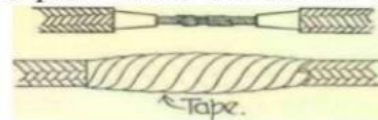
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2. Straight Joint

- The braiding is cut back to a distance of about 6 inches, and a shoulder is neatly formed with a sharp knife. The rubber insulation is also cut back and neatly tapered to a conical form about 1 1/2 inch in length. The copper wires are separated for a length of about 2 inches from the end, and carefully cleaned with emery cloth. The remainder of the exposed copper wires are twisted tightly together, and the central strand is cut out as close as possible to the point where the strands commence to



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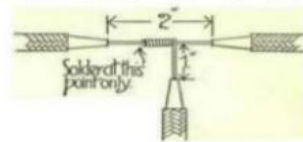
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3. T Joint

- When a tee joint is to be made in single wires, about 2 inches of the main cable and 2 inches of the branch cable are bared, the insulating material being treated as before described. The wires are cleaned, and about 1 inch of the branch is wound round the main cable, and soldered to it at the extreme end.



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4. Western Union Joints

The wires are crossed positioned to make a long twist or bend in each wire. One end of the wire is wrapped and then the other end four or five times around the straight portion of each wire The ends of the wires are pressed down as close as possible to the straight portion of the wire.



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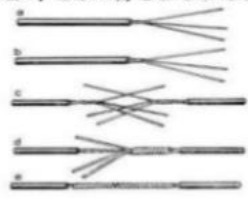
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5. Married Joint

- The married joint is an electrical joint used for joining multi-strand cables. The wires are unstranded, then interlaced with the wires of the other cable, and then married (twisted) together before finally being soldered.



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Wiring systems in a single family home or duplex, for example, are simple, with relatively low power requirements, infrequent changes to the building structure and layout, usually with dry, moderate temperature and non-corrosive environmental conditions

Heavy industries have more demanding wiring requirements, such as very large currents and higher voltages, frequent changes of equipment layout, corrosive, or wet or explosive atmospheres. In facilities that handle flammable gases or liquids, special rules may govern the installation and wiring of [electrical equipment in hazardous areas](#).

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ELECTRICAL WIRING

Before doing a wiring job, you must understand the code and the rules that govern the work. The code is a set of rules that govern the way in which electrical work is done. It is a set of rules that govern the way in which electrical work is done. It is a set of rules that govern the way in which electrical work is done.

Types of wiring according to use

1. Power wiring
2. Communication wiring
3. Signal wiring

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ELECTRICAL WIRING

The most wiring is generally done in residential and light commercial buildings. The wiring is done in a way that is safe, efficient, and meets the requirements of the National Electrical Code (NEC). The NEC is a set of rules that govern the installation of electrical wiring in buildings. It is published by the National Fire Protection Association (NFPA).

Types of wiring according to use

1. Power wiring.
2. Communication wiring.
3. Signal wiring.

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Modern non-metallic sheathed cables, such as (US and Canadian) Types NMB and NMC, consist of two to four wires covered with **thermoplastic** insulation, plus a bare wire for grounding (bonding), surrounded by a flexible plastic jacket. Some versions wrap the individual conductors in paper before the plastic jacket is applied.

Generally, single conductor building wire in small sizes is solid wire, since the wiring is not required to be very flexible. Building wire conductors larger than 10 **AWG** (or about 6 mm²) are stranded for flexibility during installation, but are not sufficiently pliable to use as appliance cord.

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Cables for industrial, commercial and apartment buildings may contain many insulated conductors in an overall jacket, with helical tape steel or aluminium armour, or steel wire armour, and perhaps as well an overall PVC or lead jacket for protection from moisture and physical damage. Cables intended for very flexible service or in marine applications may be protected by woven bronze wires. Power or communications cables (e.g., computer networking) that are routed in or through air-handling spaces (plenums) of office buildings are required under the model building code to be either encased in metal conduit, or rated for low flame and smoke production

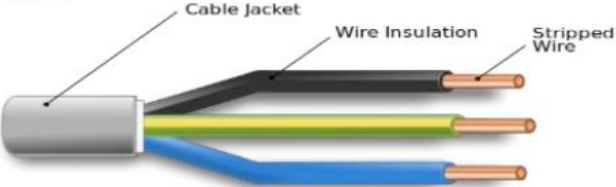


Diagram labels: Cable Jacket, Wire Insulation, Stripped Wire

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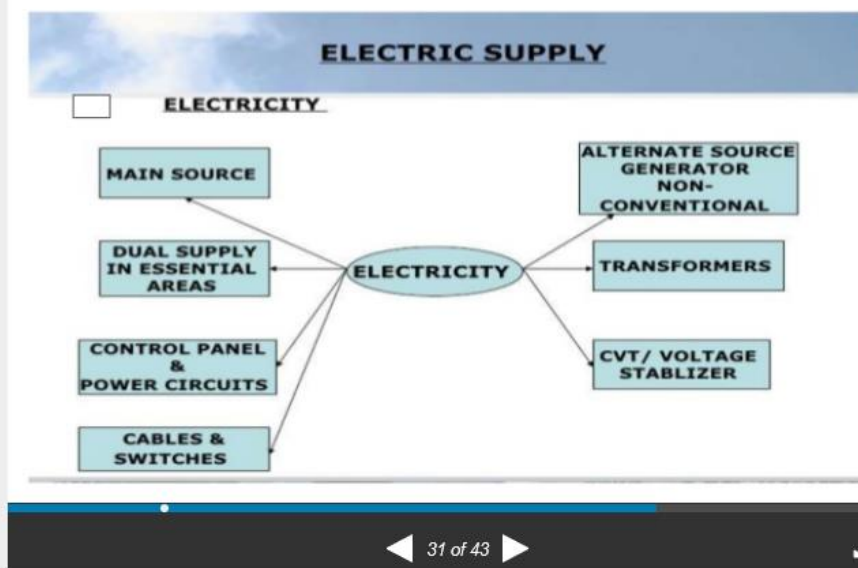
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In healthcare applications, people's bodies are often in direct contact with energized equipment thus provides **extensive grounding and bonding requirements-even for something as ordinary as a an electrical socket.**

- 1. Maximize the physical and electromagnetic protection of wiring by requiring metal wiring methods.**
- 2. Minimize electrical hazards by minimizing the voltage potential between patients and medical equipment.**
- 3. Minimize the negative effects of power interruptions with specific requirements for essential electrical systems.**

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ELECTRICAL WIRING

The first step in planning work in the home is to determine the electrical wiring and equipment that will be needed. This includes the type of wiring, the size of the wires, and the type of equipment. The next step is to determine the location of the wiring and equipment. This includes the type of wiring, the size of the wires, and the type of equipment. The final step is to determine the cost of the wiring and equipment. This includes the type of wiring, the size of the wires, and the type of equipment.

Types of wiring according to use

1. Power wiring.
2. Control wiring.
3. Signal wiring.

FACTOR AFFECTING THE CHOICE OF WIRE NO.

Essential electrical system (EES) has the mission of ensuring continuity of electrical power to specific functions and areas of a healthcare facility

Emergency system. This is limited to circuits essential to life safety and critical patient care.

Equipment system. This supplies major electrical equipment necessary for patient care and basic hospital operation.

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The wiring of the EES must be mechanically protected, per one of the following wiring methods:

- (1) Non flexible metal raceways, Type MI cable, or Schedule 80 rigid nonmetallic conduit.
- (2) Schedule 40 rigid nonmetallic conduit or flexible nonmetallic raceways listed for installation in concrete (where encased in not less than 50 mm (2 in.) of concrete).
- (3) Flexible power cords of appliances or other utilization equipment connected to the emergency system.
- (4) Secondary circuits of Class 2 or Class 3 communication or signaling systems.

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- (4) Flexible metal raceways and metal sheathed cable assemblies as follows:
 - a. When used in listed prefabricated medical headwalls,
 - b. When used in listed office furnishings,
 - c. Where fished into existing walls or ceilings (not otherwise accessible and not subject to physical damage), or
 - d. Where necessary for flexible connection to equipment.
- (4) Flexible power cords of appliances or other utilization equipment connected to the emergency system.
- (5) Secondary circuits of Class 2 or Class 3 communication or signaling systems.

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ELECTRICAL WIRING

Before doing any electrical work on a motor vehicle, it is important that you understand the basic principles of electricity. This will help you to understand the wiring system of a vehicle and to be able to diagnose any faults that may occur.

Types of wiring according to use

1. Power wiring
2. Signal wiring
3. Grounding

FACTOR AFFECTING THE CHOICE OF WIRING



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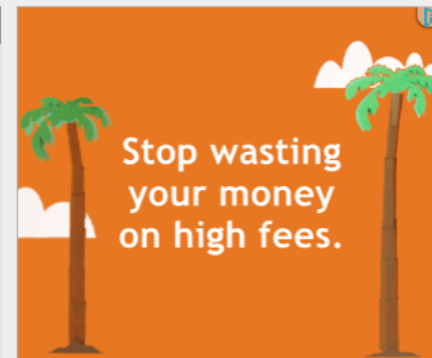
Patient Care Area Receptacle Rules

- EMT or Armored Cable are used
You must install all branch circuits so they have a ground path for fault current. This means installation in a metal raceway system or a cable armor or sheath assembly-each of which must qualify as an effective ground-fault current path.
- AC cable is listed as a suitable ground-fault path because it contains an internal bonding strip of aluminum in direct contact with the outer metal sheath of AC cable.
- Any receptacle supplied by an emergency circuit must not use Type AC, MC, FMC, or any other flexible cable. Emergency circuits must have a non flexible metal raceway-or MI cable with an additional insulated copper equipment grounding (bonding) conductor.

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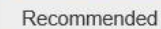
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General care areas have three requirements:

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Hospital power sources and alternate power sources shall be permitted to serve the essential systems of contiguous or same site facilities. Wiring Requirements.

- **Separation from Other Circuits.** The life safety branch and critical branch of the emergency system shall be kept entirely independent of all other wiring and equipment and shall not enter the same raceways, boxes, or cabinets with each other or other wiring.

Exception: Service switchboard and transfer switch equipment.

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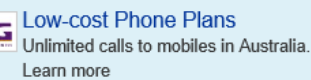
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- **Mechanical Protection of the Emergency System.**

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Hospital wiring SYSTEM

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Electrical wiring

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ELECTRICAL WELDING

The heat energy is generated when an electrically conductive path is established between the electrode and the work piece. The heat energy is used to melt the work piece and the electrode, forming a weld pool. The weld pool is then cooled and solidified, forming a weld joint.



The types of electrical welding are as follows:

- 1. Shielded metal arc welding
- 2. Gas metal arc welding
- 3. Gas tungsten arc welding
- 4. Plasma arc welding
- 5. Laser beam welding
- 6. Friction stir welding
- 7. Resistance spot welding
- 8. Resistance seam welding
- 9. Cold-chamber die casting
- 10. Hot-chamber die casting
- 11. Sand casting
- 12. Investment casting
- 13. Lost foam casting
- 14. Shell molding
- 15. Die casting
- 16. Centrifugal casting
- 17. Continuous casting
- 18. Direct chill casting
- 19. Induction casting
- 20. Vacuum casting
- 21. Electromagnetic casting
- 22. Laser assisted casting
- 23. Additive manufacturing
- 24. 3D printing
- 25. Powder bed fusion
- 26. Direct metal laser sintering
- 27. Selective laser melting
- 28. Electron beam powder bed fusion
- 29. Laser powder bed fusion
- 30. Laser powder bed fusion with gas
- 31. Laser powder bed fusion with powder
- 32. Laser powder bed fusion with wire
- 33. Laser powder bed fusion with wire and powder
- 34. Laser powder bed fusion with wire and powder and gas
- 35. Laser powder bed fusion with wire and powder and gas and powder
- 36. Laser powder bed fusion with wire and powder and gas and powder and gas
- 37. Laser powder bed fusion with wire and powder and gas and powder and gas and powder
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
FACTOR AFFECTING THE CHOICE OF WELDING:


ELECTRICAL WIRING
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- The essential electrical system shall have adequate capacity to meet the demand for the operation of all functions and equipment to be served by each system and branch.
- The generator sets shall have sufficient capacity and proper rating to meet the demand produced by the load of the essential electrical systems at any one time

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ELECTRICAL WIRING

Electrical wiring is generally done in accordance with local codes and standards. The following are the factors affecting the choice of wiring:



Types of wiring according to use are

1. Power wiring
2. Communication wiring
3. Signalling wiring

FACTOR AFFECTING THE CHOICE OF WIRING:


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Hospital wiring SYSTEM


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