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if you re unsure which type of electrical wire you need it s helpful to consult a professional electrician before installing any sort of electrical lines in your home learn the different types of electrical wires and cables and how to identify each so you can choose the right ones for your next home project each electrical wire color identifies which wires are hot which are neutral and which are ground before you try to repair a faulty switch change an overhead light fixture or splice wires learn about the colorful and incredibly important world of electrical wiring a wire is made of a single electrical conductor while a cable is a group or bundle of multiple wires inside a common sheathing both of them are used for carrying electrical current nowadays due to the advancement in technology almost everything is powered by electricity the first number represents the gauge of the conductor of each wire in the cable the second number represents the number of conductors in the cable however most cables also include a bare copper wire to function as a ground wire so in effect there is an extra conductor in each cable wire size chart electrical current is measured in amps each wire size or wire gauge awg has a maximum current limit that a wire can handle before damage occurs it is important to pick the correct size of wire so that the wire doesn t overheat an electrical wire is a wire that contains a single conductor covered in protective plastic insulation that is used to distribute electricity it comes in many different sizes coverings and conductor types depending on the application and requirements wires and cables can be made from various materials such as copper gold and aluminum the materials each have different resistances thick wire will have a lower resistance than thin wire made from the same material resistance of the wire can change proportionally with change in temperature or length of the wire calculate the force of attraction or repulsion between two current carrying wires you might expect that two current carrying wires generate significant forces between them since ordinary currents produce magnetic fields and these fields exert significant forces on ordinary currents two parallel wires carry current in opposite directions as shown in figure pageindex 2 what force do they exert on each other there will be no force since the currents cancel there will be an attractive force between the wires there will be a repulsive force between the wires answer twisted pair wiring is a type of cable which uses eight individual wires in a bundle the eight individual wires are paired in sets of two and each pair is twisted around each other this creates four pairs of wire each of which serve as a channel through which data can be transmitted they remain idle however in a gigabit ethernet connection 1000base t all eight wires are used for data transmission providing a significant speed boost discover the purpose of each wire in an ethernet cable and how they contribute to data transmission from fast ethernet to gigabit connections the spruce margot cavin for example black and red wires or white wires taped with either of these colors are hot wires that carry current bare copper or green wires are used as ground wires white or gray indicates neutral wires each wire in the mains cable has an important function the wire covered in brown plastic

is the live wire this carries the 230 v alternating potential difference from the power supply the wire what emf is produced across a straight wire 0.50 m long moving at a velocity of 1.5 m/s through a uniform magnetic field 0.30 T the wire lies in the \hat{y} direction also which end of the wire is at the higher potential let the lower end of the wire be at $y = 0$ and the upper end at $y = 0.5$ m b d l $\int \mathbf{B} \cdot d\mathbf{l}$ figure 12.6.1 the current i of a long straight wire is directed out of the page the integral $\int d\theta$ equals 2π and 0 respectively for paths m and n with b given by equation 12.4.1 principle phase sequence advantages and disadvantages generation and distribution transformer connections three wire and four wire circuits balanced circuits wye or star Δ single phase loads unbalanced loads non linear loads three phase loads phase converters testing alternatives to three phase color codes see also either configurations wire the pins straight through i.e pins 1 through 8 on one end are connected to pins 1 through 8 on the other end provided you wire them the same at each end please do also check out the RJ45 pinout poem below which is easy to memorize with the aid of the diagram provided and it means you won't ever forget it americans are losing millions of dollars every year to criminals who steal money from their bank accounts through fraudulent wire transfers some u.s senators are now pressing major banks for troopers pulled the 33 year old cobb over on interstate 94 in minneapolis on july 31 because the lights were out on his car they found that the spring lake park man was wanted for violating a

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