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Sharing of files and information enables the smooth functioning of our lives as that is what helps us connect with people or run devices that are immensely useful to us. If we want information, we browse the internet, use the telephone or switch on the TV. When we use DVD players, sound systems, projectors, what we are essentially doing is transmitting information from one device (input device) to another (output device). These look simple to us. But there are complex connections that are required to facilitate sharing of this magnitude. This article tells you about the cables required in different forms of data transmission.

Category 5 (cat5 100 ft) cables are those cables that are used to carry and transmit signals and that is what establishes a connection between devices. They are widely used in Ethernet (local area networks for internet connection), telephone networks, entertainment systems, etc. Category 5e (Cat5e 1000ft), where 'e' stands for 'enhanced', is an advanced cable that is more widely used these days. Cat5e 1000ft are more widely used because they carry signals at a faster speed, up to 1000mbps, as compared to Cat5's speed of up to 100mbps. This cable is of the same make as Cat5, with 4 pairs of twisted wires. It is compatible with cat5 when delivering signals, not while receiving them.

These cables are extremely important because of the importance of Ethernet (local area networks) and telephone networks. The more advanced cable enables data transmission between longer distances at a faster speed. With cat5 cables, we would require the use of repeaters every 100 feet, which results in a delay in transmission; it is significantly different with cat5e, which would require a repeater every 1000 ft. If you look at the back of your modem, you will see the cat5e cable.

HDMI cables (high definition media interface) are those that transmit uncompressed audio/ video/ graphic data from an input device to an output device. It helps connect your camera to the PC, the CPU to the monitor, the PC to a projector, etc... These cables transmit audio, video, graphic content. Introduced in 2003, these HDMI cables are widely used in a range of electronic devices used for entertainment.

HDMI connectors have 19 pins and there are different types of connectors that support different bandwidths. A Micro HDMI cables (type D connector of the HDI connectors) resembles a USB connector; it has 19 pins like an ordinary HDMI connector, but is smaller in size. Micro HDMI cables are used in smart phones that support HDMI playback and transmits audio/ video content in the bandwidth 1440p.

The two cables mentioned in this article are the latest in their range and are replacing the older generation cables for their enhanced features. Both symbolize the fast paced innovation and transient environment in the field of technology.

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