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RG 59 is among the most used types of cable. Majority of the RF signal and video transmission makes use of RG 59 cables for transmission signals. It is a single conductor wire which is used with a copper shield. This shield is connected to make a ground connection in order to protect the radiation of the electrical signal. You will also find a single centre conductor in this coax cable which is surrounded by an insulator that helps to prevent the loss of power. RG 59 coax cables have got wide applications from cable TV to VCR. Until recently, it was used almost in every TV to antenna connection. You will also find this coax cable being used in majority of the security cameras as the video cable that connects the camera to the system. This type of cabling is highly effective in case of security cameras, as it helps to transmits quality videos over large distances. In majority of the cases this cable is terminating with a BNC type or F type connector. The BNC connectors are used in security cameras and related transmissions, whereas the F Type is used for cable TV or connecting with antenna. In some cables, you will find the inner conductor made up of the copper plated iron wire.

Nowadays almost all the video and audio antenna makes use of coax cables. With thousands of designs and size, you may face a tough time in finding the right one for you. Apart from budget, you need to decide on the amount of acceptable loss that you can bear in these cables. Always go for a branded cable which is certified by some authority.

If you want a high performance communication, then you have to use the most sophisticated technology. Coaxial cables or coax cables play a vital role in providing reliable and high performance cabling systems. HDTV, VSAT, SATV etc are something which requires high quality coax cable. For them, the coax cables that are usually used are RG 6, RG 59 and RG 11. These cables have an impedance of around 5 ohms. No matter whatever type of coaxial cables you are using, it will have a certain amount of resistance and dielectric loss. These losses may vary depending upon the diameter of the conductor apart from few other things. You will find RG 59 coax cable almost everywhere.

It also finds if used in baseband video frequencies, like the composite video. In some cases, it is used for the purpose of broadcasting frequencies, but the losses are too high when it is used for longer distance, thus itâ€™s better to use the RG 11 and RG 6 cables.

The design of the coaxial cable will affect the power handling, cost, size, attenuation, flexibility as well as the performance of the cable. The cables, in which the inner conductor is silver plated, have got a much better performance.

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