Fiber Optic Cables- connecting the world at a faster pace by Anie Bates

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Communication industry has been stormed by the advent of fiber optic cabling. The key advantages that are offered by these cables include greater bandwidth, light in weight, small size and definitely has more flexibility. In addition to it, the core reason behind its popularity is that advanced technology used by these cables.

As a matter of fact, the whole fiber optic technology makes use of optical fibers. These optical fibers are thin, ultra-flexible and transparent and transmit the light between two ends of the fiber quality as compared to copper wire. So, with their superior technology these are more appropriate for smooth communication between far distances. In addition to it, the usage of these cables results in much less loss of signals which means uninterrupted and smooth communication. To tell you the truth, currently more than 80% of far distance data traffic is transmitted by using this smart optical fiber technology. â€œTotal internal reflection through a light source transmitted by a fiber cableâ€• is the main principal on which whole fiber optic communication is based. Mainly, quality plastic material is used for making these cables. However, these can be made from plastic clad silica or glass in accordance with the budget and application for which these cables are being used. Copper wires used electronic signals to transmit signals whereas light pulses are being used in fiber optics cables to transmit signals.

Other advantages of fiber optic cables include it is inexpensive and suits properly to extremely thin diameters in the range between 0.8mm to 40mm. Being extremely thin, a number of fibers can be joint together letting many connections to run in the same cable. It provides clearer phone connections as well as TV receptions, as the light signals which are in the same cable do not hamper each other's functioning. This ultimately results into much less loss of signals. These cables can also be called as the safer ones because no electricity passes through these cables and hence there will not be any fire issues.

In comparison with other wires like copper wires, these cables are definitely the superior ones because these are light weighted and small sized. With above mentioned advantages, itâ€™s evident that why fiber optics cables are being used in many telecommunications and computer networks. These cables are regarded as the most trusted and best replacement of copper wires.

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Anie Bates writes articles for consumer electronics and categories. He has vast exposure in writing for electronics products. For more information on a fiber optic cables, fiber optic cables, cable fiber optic, optic cables, digital camera cables, smart board cables and cat6 patch cables visit: a http://www.cables.com/.

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