# Name: Transmission Methods

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| Transmission Medium | Description | Strengths | Weaknesses |
| Coaxial | This is a type of copper wire that is specially built to block interference with a metal shield. TV companies use them to carry data signals and videos from satellites. | Coaxial wires are seen as reliable and durable. They support high bandwidth and are easier to assemble then other wires. | Coaxial wires are quite expensive to install and maintain. They are also at risk of signal loss over long distances. In addition to this some people believe that they are too bulky. |
| Optical Fibre | Optical fibre cables are similar to electrical wires but unlike other wires they have one or more optical fibres. The job of these optical fibres is to carry light. These wires can be used over long distances for high performance. | Optical fibre wires are seen as easy to install because of their small size. They are also flexible with greater bandwidth. | Optical fibre wires cost more than coaxial wires to produce. Optical fibres are at risk of breaking if put under too much physical stress. |
| Unshielded Twisted Pair | Unshielded twisted pair cables are wires made from copper. They are used in local area networks and can often be found in telephone cabling. | Unshielded twisted pair cables are usually seen as a cheaper alternative to other networking media. They are easy to install because they are flexible. | Unshielded twisted pair cables are flawed because of their lower bandwidth and need for maintenance. |
| Shielded Twisted Pair | Shielded twisted pair cables are similar to unshielded twisted pair cables. The only difference is that the shielded twisted pair cables are encased in a plastic shell. | Shielded twisted pair cables have more protection against interference because of their casing. This type of wire can also be used across long distances. | The extra casing makes the wire thicker which reduces flexibility. It is also more expensive than unshielded twisted pair cables. |
| Radio | Radio is the technology that uses radio waves for sound communication. These electromagnetic waves can send signals over long distances. | Radio waves are able to travel long distances so their message can go far. They also have a lower cost than using your TV. | Radios lack the visual element a TV which can lead to less audience attention. |
| Satellite | Satellites have many purposes. They include internet communication and weather forecasting. They are mostly used for data collection. | Satellites make sure every side of the earth can be secure with their large distance. This system can be controlled by the users. | If it breaks it is hard to repair because satellites are in space. It will be costly to build |