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| --- | --- | --- | --- |
|  | **Copper** | **Fibre** | **Wireless** |
| **Bandwidth** | Fast | Fastest | Slower |
| **Security** | Can be tapped | Almost impossible to tap | Can be tapped |
| **External factors** | Affected by external factors | Not Affected | Affected by external factors |
| **Attenuation** | Suffers from attenuation | Least attenuation | Suffers from the most attenuation |
| **Cost** | Cheaper | Expensive | Cheapest |
| **Breaking (Physical)** | Break easily | Does not break so easily | Does not break || N/A |
| **Medium** | Uses electricity to transmit | Uses light to transmit | Uses radio waves to transmit |
| **Convenient** | Wired | Wired | Wireless, so most convenient to use |
| **Bend radius** | Large bend radius | Smaller bend radius | N/A |
|  | Although copper is perfectly adequate for a voice signal, it has very limited | bandwidth – while fiber provides standardized performance up to 10 Gbps and beyond. |  |
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