



HOW DO THEY COMPARE?

higher bandwidth over longer distances, up to 400MHz/km signal can run for longer, and needs less boosting



SPEED

electrical signals stay electrical signals, no need to convert to light

can be submerged into H2O, less susceptible to temperature fluctuations



DURABILITY

less fragile/breakable, not many protective layers required around conductors

easier installation, smaller, more flexible, easier to pull; lighter, easier to transport, easier to test



INSTALLATION

cheaper and quicker installation, easier/quicker termination; much easier to split cable

cheaper/less maintenance required, less downtime/repair time, less networking hardware required



MAINTENANCE

easier termination/splitting; recabling needed for higher network performance

zero spark hazard, little or no metal - protects from voltage surges, and shorts



SAFETY

various smoke resistance levels & outdoor jackets available

no magnetic field around fiber, impossible to tap into signal unless physically cut into wire, tempering easy to detect; immune to EMI/RFI



SECURITY

braid and foil shielding can protect the signal from interference and shield in the cable's magnetic field

cheaper maintenance/less upgrades necessary



COST

cheaper installation, cheaper price, cheaper short term

INTEGRATION?

decreasing prices of media converters are making it easy to merge the two types of cable in the same network

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100% COPPER BULK CABLE



MEDIA CONVERTERS



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