

# Connector requirements - 1 - Cost of ownership etc

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- ▢ Low cost (v important)
  - enables system (cable, connectors, any other necessary hardware installation) cost comparable to UTP-5
- ▢ Good for home wiring installation with 20 year lifetime,
  - transceiver upgrades for higher bandwidth
- ▢ Simple installation, suitable for domestic application
  - simple cable termination for wall plates etc
  - amateur installation, simple, economical tools
- ▢ Low to zero maintenance
  - amateur maintenance
  - no problem from dust etc
- ▢ Standardized or standardization in progress (EIA/TIA, ISO, IEC etc)
  - select, not invent
  - complies with IEEE patent policy

## Connector requirements - 2 - Function

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- ▮ Duplex, asymmetric, differentiated (keying etc)
- ▮ Support speeds from 125 MBaud up to 4GBaud
- ▮ Suitable for equipment, dongles and wall plates
  - allow any to any connection with patch cords
- ▮ OK to require pre-assembled patch cords
- ▮ Small size (e.g. RJ45 aperture compatible)
- ▮ Low loss
  - 1.5dB link connector budget - at least 2 passive connections, support for additional splices desirable
- ▮ Format suitable for MMF
  - suitable for POF may be desirable
- ▮ Support for eye-safety in normal use
- ▮ Assist physical safety