

TIA Project - PN4657

A Physical Layer Specification for 1000Mb/s or greater operating over Category 6 Balanced Twisted Pair Cabling

- **Project was approved at the August TR- 41.5 meeting.**
- **Held first conference call on September 24.**
- **Objectives were established.**
- **Scheduled completion the end of 2000.**
- **Press Release from TIA on October 29th.**
- **First Draft available.**
- **Next meeting in February.**

Project Objectives

- **A physical layer specification that is low complexity, and that can be implemented at low cost and with low power.**
- **A MAC interface variant with 8 bit wide data bus, transmit/receive clock, error, and control.**
- **Support a 100 meter Category 6 cabling variant at a minimum of 1 Gb/s.**
- **A full duplex phy interface only.**
- **Forward Error Correction (Optional).**
- **A simple modulation scheme.**
- **A minimum 10^{-10} BER.**
- **Scaleable.**