10Gb/s on FDDI-grade MMF Cable

Objectives

SG Objectives (adopted 1/34/04)

– Use the existing 10GBASE-R PCS

– Support a BER of better than or equal to 10^{-12}

– Support fiber media selected from IEC 60793-2-10: 2003

- 62.5µm
    - 160/500 MHz*km (A1b, 60793-2-10: 2003)
    - 200/500 MHz*km (A1b, 60793-2-10: 2003)
- 50µm
    - 500/500 MHz*km (A1a.1, 60793-2-10: 2003)
    - 400/400 MHz*km (A1a.1, 60793-2-10: 2003)
    - 1500/500 MHz*km (A1a.2, 60793-2-10: 2003)

– Provide a Physical Layer specification which supports link distances of:

- At least 220 meters on installed 500MHz*km multimode fiber
- At least 300 meter on multimode fiber