

ABSTRACT

Fiber optic cable as a transmission medium is able to increase the number of channels, large bandwidth, the ability to send data at high speed, guaranteed confidentiality of data sent, not disturbed by the influence of electromagnetic waves on data, voice and video communication system services. The advantages of fiber optic cable communication systems are factors that influence the level of efficiency or quality of performance of a fiber optic cable system, such as attenuation, dispersion, power loss, and so on. Damping can be caused by internal factors or external factors. This measurement refers to the activity of comparing the standard parameters of the manufacturer regarding the characteristics of the core (core) and other fiber-optic structures with the measurement results in the field. Coconut which is 11,570 km. In the Bekasi-Jatinegara link as many as 11 cores are 23,290 Km and the Bekasi-Coconut link is 14 cores which are 11,570 km, on the Bekasi-Jatinegara core 15 link have a loss value of 0.228 dB and on the Bekasi-Pondok Kelapa core 16 link has a value of losses which is 0.129 dB. Based on the results of measurements on core 11 and core 16 it can be concluded that this optical fiber is bending but is suitable to be used as a transmission medium in excess of the standard of PT. Telkom Bekasi so that repairs need to be done.

Keywords: Optical Fiber, Bending, Power Link Budget