
ABSTRACT

In a process of sending data or information, there is usually a failure where the data sent does not match. Analysis of failures that occur in fiber optic cables, where the failure cannot be seen directly must use tools. The search for failures during data transmission can use the OPM (Optical Power Meter) tool which is a tool used to measure the attenuation of fiber optic cables. Failed data or information transmission can be caused by several factors, namely damage to the patchcord cable, tilt of the pole and damage to the available ports. From the attenuation measurements on the first ODP-PBG-FV, the attenuation (in) was measured using a fiber optic patchcord cable connected to the OPM (Optical Power Meter). The results obtained are -6.19 dBm in attenuation, the cable attenuation value is 0.57715 dB, the connector value is 0.5 dB, the splicing attenuation is 0.3 dB, the 1/8 splitter attenuation is 11.4 dB, the maximum loss value is 12, 78 dB. In the attenuation measurement results (out) there is the largest value from port 1 is -17.71 dB, the smallest attenuation value is -17.32 dB from port 4. good because it does not exceed -20 dB which is the standardization of PT. Telkom.

Keywords: Attenuation, Optical Power Meter, Fiber Optic, Patchcord