



## Enhancement of the bandwidth of W-type glass optical fibers in the infrared wavelength region



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### ABSTRACT

Transmission characteristics (bandwidth and steady state loss) of multimode W-type glass optical fibers are investigated by solving the time-dependent power flow equation. Results show how the bandwidth in W-type glass optical fibers can be enhanced by shifting from the red to infrared wavelength region for different depths and widths of the intermediate layer as well as for different launch excitations. Such characterization of these fibers is consistent with their manifested effectiveness in reducing modal dispersion and bending loss.

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