

W2 applies the most advanced mechanical processing method for manufacturing lensed fiber. The geometrical parameters can be well controlled in order to reach the best performance. AR Coating and metallization are also available.

**Features:**

- High coupling efficiency
- Various far field beam shapes available
- Metallization
- Anti-reflection coating

Tapped Lensed fiber: Tapered lensed fiber enlarges the numerical aperture of the fiber and increases the light collection capacity, so it is very suitable for coupling with LD, DFB, SLD lasers or VCSELs whose output beam cross-section is circular or approximately circular. High-precision tapered lensed fiber is also used in the medical laser micro-surgery systems and micro-illumination systems. In addition, the increasingly matured optical fiber waveguide coupling, and silicon integration inevitably uses the tapered lensed fiber to improve coupling efficiency.



Beveled Lensed Fiber: Beveled lensed fibers are mainly divided into two types: one is  $6^{\circ} \sim 10^{\circ}$ , which is used to prevent interference or damage caused by reflected light from the surface of the fiber when returning to the optical path, the other is  $40^{\circ} \sim 50^{\circ}$  or even Larger, this kind of beveled lensed fiber can change the optical path and even cause a large-angle, total reflection of the optical path, and can also increase the light-receiving area of the optical fiber so that more light enters into the optical fiber.

