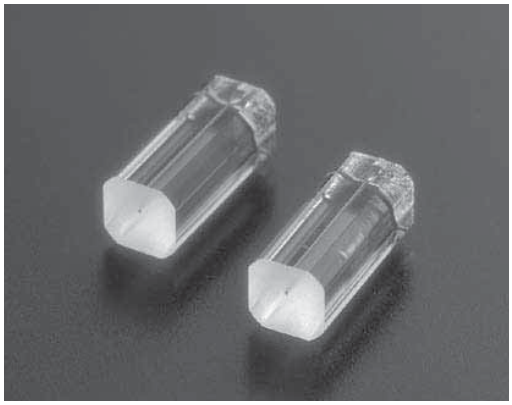
Polygonal Capillary

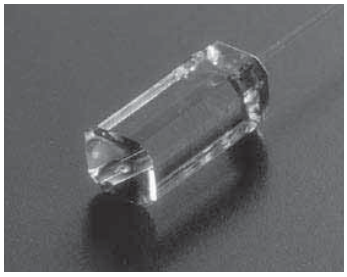
Polygonal capillary enables reduction of single fiber assembly costs while maintaining high reliability. Conventional assembly requires the use of two parts (a V-groove substrate and a lid), but with the polygonal capillary, no further components are necessary.



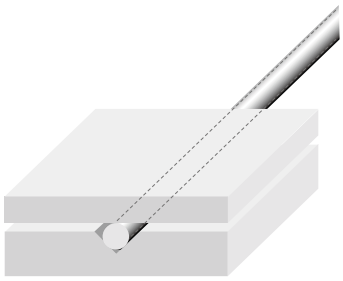
Features

- Low cost
- Easy assembly
- High reliability

Assembly (example)



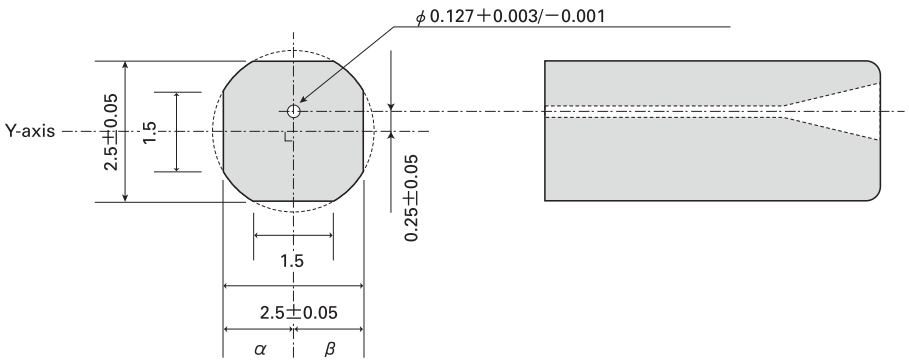
Polygonal capillary



Conventional structure

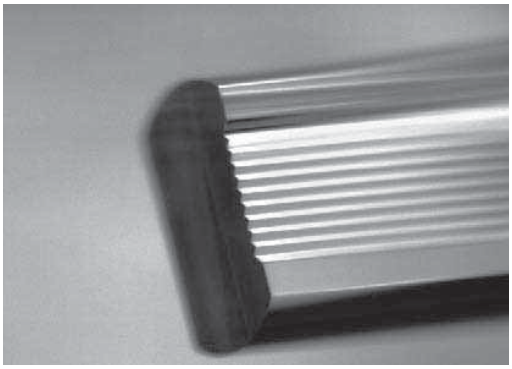
Dimensions

(mm)



V-Groove Substrate

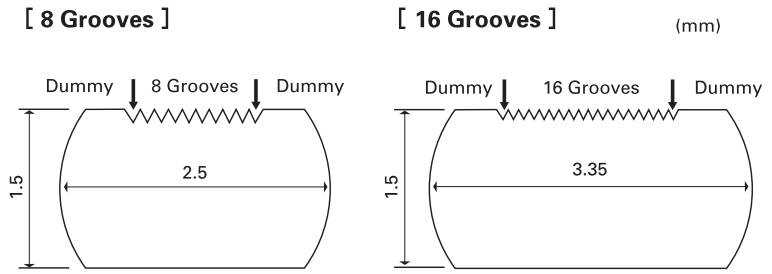
With the high demand for broadband and high speeds in optical fiber networks, optical devices of the optical fiber array type are in the spotlight.
The V-groove substrate is used for arranging and aligning multiple optical fibers.
NEG provides a highly-precise glass V-groove substrate at a low price with the drawing process.



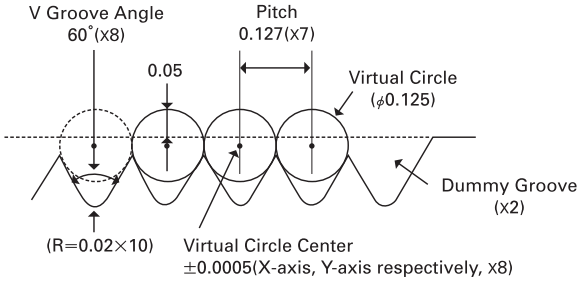
Features

- Low price due to drawing process
- Sub-micron precision
- Smooth groove surface due to heating process

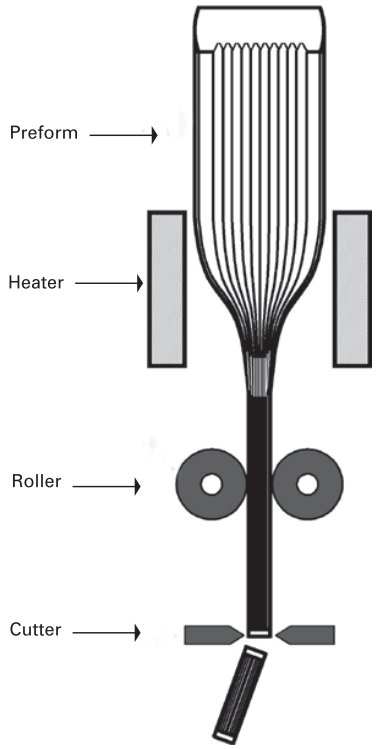
Cross section of V-groove Substrate



V-groove Details



Drawing Method



Each fiber (virtual circle) center is positioned with ± 0.5 μm (X-axis, Y-axis, respectively) absolute error.