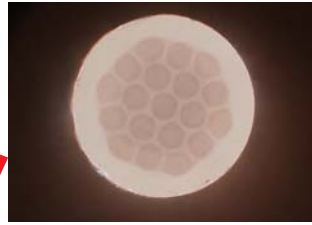
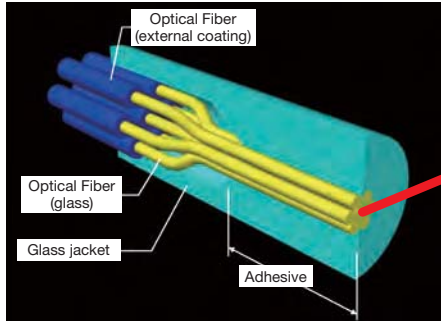


A fused bundle fiber that uses jacketing technology to bundle multiple optical fibers without the use of adhesive.

The heat source that is used when constructing fused bundle fiber is the same as jacketing technology: discharge, resistive-heating furnace, or microtorch. The heat source used for bundling differs to suit the outer dimensions. This technology does not use adhesive, and with excellent heat-resistance characteristics suited to high-temperature environments. Optical fibers can also be bundled in any desired layout.



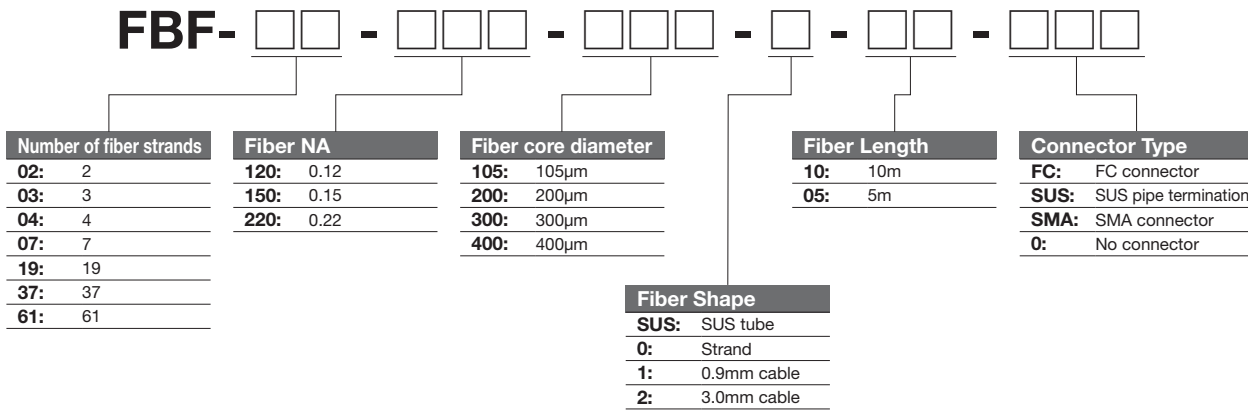
Bundled end face

- In addition to a hexagonal packed layout, optical fibers can be arranged in any desired layout using dummy rods
- Adjacent optical fibers are kept in place using hot-melt without the use of adhesive, giving it a high level of heat-resistance and reliability
- AR (non-reflective) and other coatings can be applied to the optical fiber ends

| Specifications            |   |   |   |   |    |    |    |
|---------------------------|---|---|---|---|----|----|----|
| Type                      |   |   |   |   |    |    |    |
| Nch Fiber Strands         | 2   | 3 | 4 | 7 | 19 | 37 | 61 |
| Fiber NA                  | 0.12, 0.15, 0.22                                    |   |   |   |    |    |    |
| Fiber core diameter       | 105µm, 200µm, 300µm, 400µm                          |   |   |   |    |    |    |
| Operating Wavelength      | 400 – 1700nm  |   |   |   |    |    |    |
| Fiber Shape               | SUS flexible tube, strand, 0.9mm cable, 3.0mm cable |   |   |   |    |    |    |
| Nch Fiber Connector Type  | SUS pipe termination, SMA, FC                       |   |   |   |    |    |    |
| Bundle End Connector Type | SUS pipe termination                                |   |   |   |    |    |    |

Note: If the optical fiber NA, core and cladding diameter to be bundled, the bundled number of fibers, jacket tube material, outer diameter and others are specified they can be custom-designed. Standard bundled strands are from 2 to 61 fibers. Please contact our International Sales Division if there will be more than 62 optical fibers, or if specifying the type of fibers being used. General purpose fibers packed with adhesive are also available.

Specifying Part Numbers



- Application Systems
- Optics & Optical Coatings
- Opto-Mechanics
- Bases
- Manual Stages
- Actuators & Adjusters
- Motoeized Stages
- Light Sources & Laser Safety
- Index
- Microscope Unit
- Alignment
- Interferometers
- Inspection/Observation
- Bio-photonics
- Laser Processing