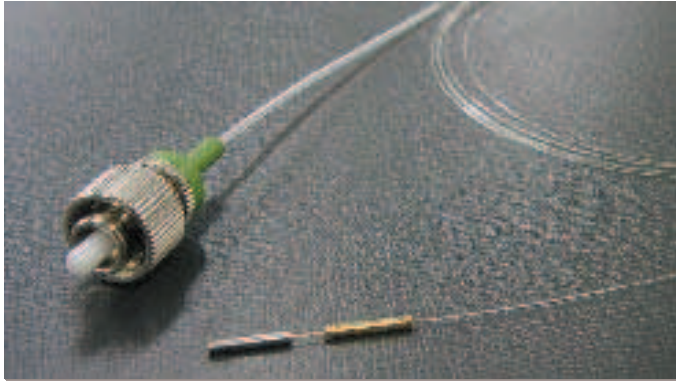


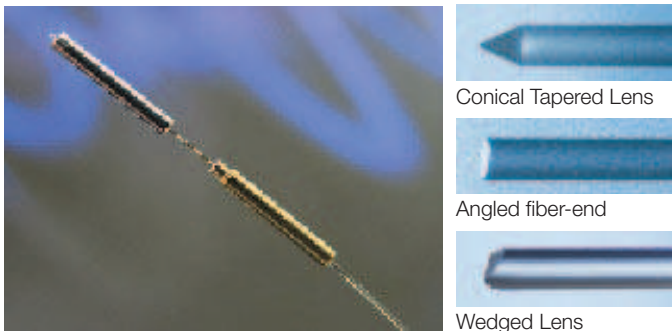
# [LENSED FIBER ASSEMBLY]

**Application:**

- Perfect for coupling fiber to LD's and PD's for various applications such as DFB Lasers, Pump Lasers or Receivers. Our high quality specialty pigtailed will improve coupling efficiency, increase product performance, and save you costs
- We offer the total solution for photonic packaging with our completed fiber to the chip assemblies



FC/APC Wedged Fiber Assembly For 980nm LD Coupling



Welding and hermetic ferrules

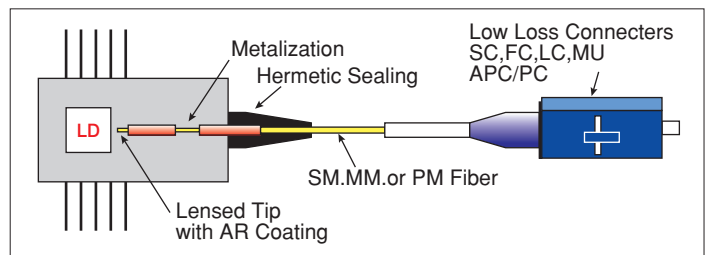
**Key Feature:**

- High precision fiber-end shaping
- Multiple lens shapes available for any application
- High quality AR coating for various wavelengths
- Kovar ferrules for welding and hermetic sealing
- Low Insertion Loss terminations
- Ni/Au Metalization for exceptional solderability

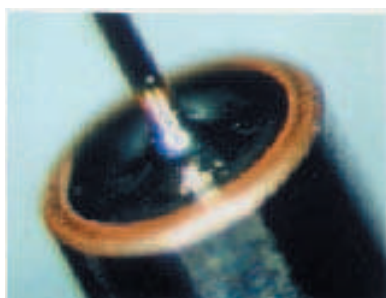
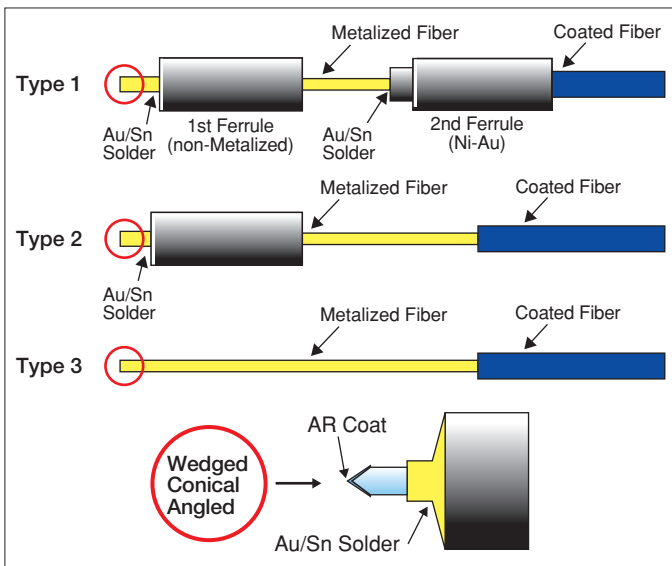
**Options**

Fiber to the Chip Assemblies May Include:

- Fiber end-shaping
- AR coating
- Bare fiber metalization
- Hermetic and Welding ferrules
- Low loss connector
- Singlemode, Multimode, and Polarization Maintaining Fiber



## BASIC CONFIGURATION



Soldering

**AR Coating :**

- Ion assisted deposition
- Low reflection
- Reflection ratio less then 0.3%, typically 0.1%
- High environmental stability
- Various wavelengths available 980nm,1310nm,1480nm,1550nm
- Single or broadband available

**Metalization :**

- Sputtering or plating process
- Ni based Au plating or sputtering
- High level of hermeticity and pull strength

**SPECIFICATIONS**

Fiber Tip Shape	Wedge	Conical	Angle
Fiber Type	SMF28, HI1060, PANDA, MMF		
Fiber Buffer O.D.	250 m, 900 m		
Taper Angle	90 deg	16-24deg	0, 8, 45 deg
Lens Radius	3-10 m	5-30 m	N/A
Metalization	Ni / Au		
Soldering & Hermeticity	Au/Sn $\leq 1 \times 10^{-10}$ Pa · m <sup>3</sup> /sec $\leq 1 \times 10^{-9}$ atm · cc/sec		
AR Coating	980, 1310, 1480, 1550 ± 20nm Available broadband coating Reflection Ratio $\leq 0.3\%$		