BARE FIBER ADAPTER

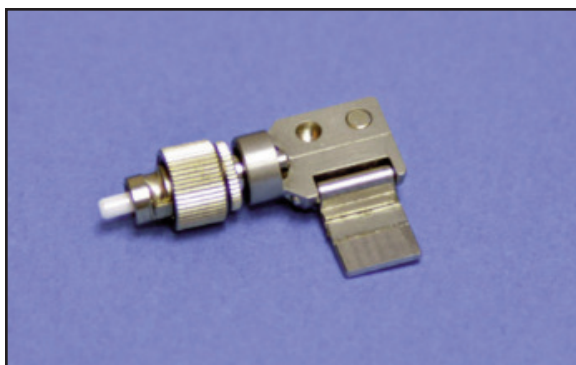Bare Fiber Adaptors with Magnetic Clamp

Bare Fiber Adaptors with Spring Clamp

Features:

- Easy to use
- Low cost
- Variety of connector types (FC, SMA, LC, ST, SC, E2000)
- Variety of ferrule hole sizes, from 80 to 1040 microns

Bare fiber adapters provide a simple and effective way to use unterminated fibers with commercial receptacles. Simply strip and cleave your fiber and insert into the bare fiber adapter. Broken fibers are easily removed with piano wire, allowing hundreds of insertions. They are recommended for power meter hook-ups, temporary system repairs or wherever a quick fiber connection is required. Standard adapters accommodate 81 micron, 125 micron or 140 micron cladding fibers with a typical insertion loss of less than 1dB.

OZ Optics has recently improved the bare fiber adapter design to now use a magnetic clamping mechanism. The new design gently yet firmly holds the fiber in place without harming soft acrylate coatings, and is even easier for operators to use. Bare Fiber adaptors with magnetic clip only works with fibers with 0.25 or 0.4 mm OD jacketed fiber
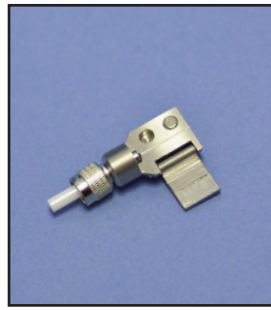

FC Bare Fiber Adaptor with Magnetic Clamp
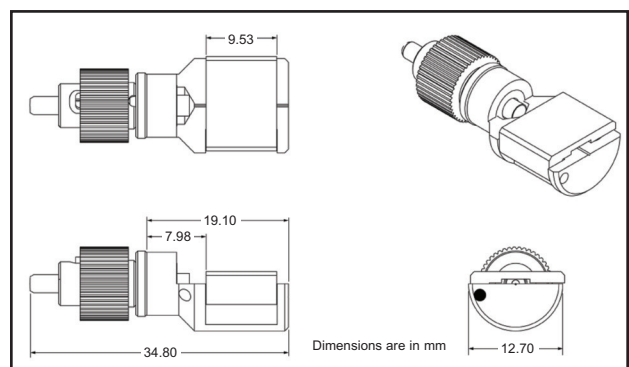
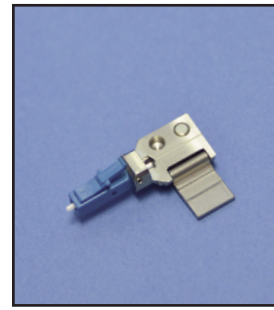FC Bare Fiber Adaptor with Magnetic Clamp
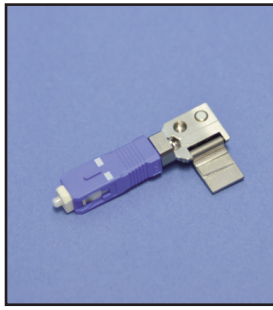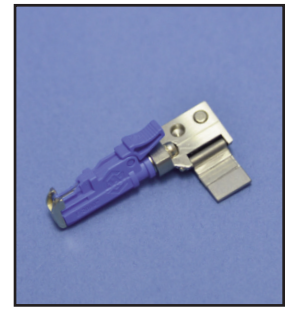
| SC Bare Fiber Adaptor with Magnetic Clamp | ST Bare Fiber Adaptor with Magnetic Clamp | SMA Bare Fiber Adaptor with Magnetic Clamp | ST Bare Fiber Adaptor with Magnetic Clamp | E-2000 Bare Fiber Adaptor with Magnetic Clamp |

Bar Code	Part Number	Description
44190	BARE-03-125-M	Bare Fiber Adaptor with FC connector, for 125 micron diameter fibers, magnetic clamp
47508	BARE-05-125-M	Bare Fiber Adaptor with SMA 905 connector, for 125 micron diameter fibers, magnetic clamp
47507	BARE-08-125-M	Bare Fiber Adaptor with ST connector, for 125 micron diameter fibers, magnetic clamp
47511	BARE-SC-125-M	Bare Fiber Adaptor with SC connector, for 125 micron diameter fibers, magnetic clamp
47510	BARE-LC-125-M	Bare Fiber Adaptor with LC connector, for 125 micron diameter fibers, magnetic clamp
47509	BARE-E-125-M	Bare Fiber Adaptor with E2000 connector, for 125 micron diameter fibers, magnetic clamp

ORDERING INFORMATION:

BARE FIBER ADAPTER:

BARE-0X-b(-M) ← Add "–M" to the part number for magnetic clamp version

X: Connector type:

- 3 = FC connector
- 5 = SMA 905 connector
- 8 = ST connector
- SC = SC connector
- LC = LC connector
- E = E2000 connector

b: Ferrule hole size, in microns.

80micron - 1040 micron

Ask factory for standard and custom hole sizes.

Ordering Example: An FC style Bare fibre adaptor for 125 micron fiber with standard spring clamp. Part #: **BARE-03-125**.

Same part with magnetic clamp, Part #: **BARE-03-125-M**

OPERATING INSTRUCTIONS:

Note: When using alcohol and acetone, carefully follow all safety, health and disposal information given on the container label, and on any material safety data sheets.

1. If you are using the bare fiber adapter with uncabled fiber, proceed to step 2. If you are using cabled fibers, strip at least 3 inches of the cable's outer jacket and cut away the exposed strength members (usually Kevlar fibers near the stripped edge).

2. Strip a sufficient amount of the buffer to allow for fiber cleaving. The length of buffer stripped from the fiber will depend on the type of cleaving tool used. (Usually 2.5cm to 5cm is adequate)

3. Cleave the fiber, leaving approximately 12mm to 15mm of exposed fiber. (See the illustration above).

4. Clean the exposed cladding with acetone and/or isopropyl alcohol (reagent grade).

5a. Magnetic clamp: Flip open the magnetic clamp. Push the fiber through until the cleaved fiber end is flush with the ceramic ferrule end face. At this point flip shut the magnetic clamp to hold the fiber in place.

5b. Spring clamp: Depress the spring-loaded buffer clamping mechanism and insert the cleaved fiber into the acceptance hole.

Push the fiber through until the cleaved fiber end is flush with the ceramic ferrule end face. At this point release the buffer clamping mechanism, to hold the fiber in place.

6. Inspect the end face with an eye loop and if necessary, adjust the fiber until it is flush.

7. Clean the surface of the ceramic ferrule with a lint-free, alcohol dampened cloth and blow dry with compressed air.

8. The fiber is now ready for use. Insert the adapter into the optical test equipment's receptacle.

70-80mm

12-15mm

Kevlar

Cleaved Fiber End

3mm OD Jacket

0.9mm OD Fiber Buffer

Exposed (Bare) Fiber

Bare Fiber Preparation of 3mm OD Jacketed Fiber For Bare Fiber Adapters With Springs