818/918D-IG,IR: Fiber Adaptor and CORE-IR installation

Fiber optic adaptors for the 818/918D series detectors allow the user to perform optical power measurements when working with bare and connector terminated optical fibers.

FP3/FP4 series connector adaptors accommodate optical fibers terminated with SMA, ST and FC connectors. These adaptors can be easily attached to the 818-FA fiber adaptor mount with two screws, allowing for easier insertion and unplugging for fiber optic connectors. Also, when working with the small area detectors (818/918D-IG,IR), it is highly recommended to use an FP4-CORE-IR series adaptor core. The core allows the user to make accurate measurements from connectorized fibers regardless of input conditions by using collimating optics to collimate the beam and thus prevent detector overfill effects.

For example, the following components are required to take peak-to-peak power measurements of light coming from a FC-connectorized fiber with a wavelength of 1310 nm:

1. 818/918D-IR
2. 818-FA
3. FP4-FC
4. FP4-CORE-IR

The FP4-CORE-IR is inserted into the FP4-FC adaptor, see Fig. 1.

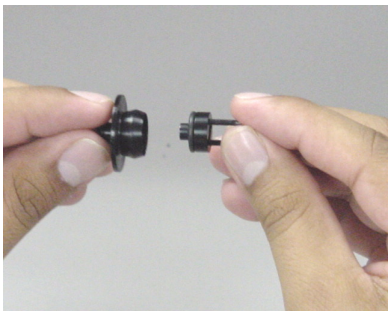

Figure 1. FP4-CORE-IR inserted into the FP4-FC adaptor.

Use the silver screws provided to tighten the FP4-CORE-IR in the FP4-FC adaptor, see Fig. 2.

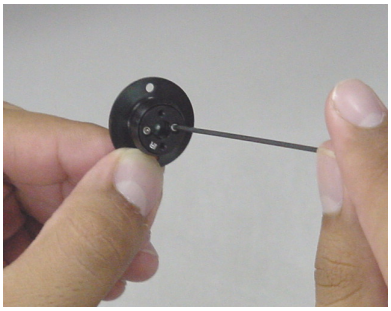

Figure 2. Tightening of the FP4-CORE-IR into the FP4-FC adaptor.

The FP4-CORE-IR/FP4-FC assembly is then inserted into the 818-FA adaptor using the two screws provided, see Fig. 3.

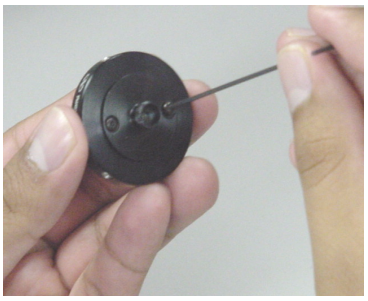

Figure 3. 818-FA connection to the FP4-FC/FP4-CORE-IR.

The 818-FA with the FP4-CORE-IR/FP4-FC then threads onto the 818/918D-IR.