

OptiTap™ Series Tips

Inspection and Cleaning OptiTap Connectivity

OptiTap System

OptiTap is a fiber connectivity system used in outside plant (OSP) applications for delivering fiber-to-the-premises or -home (FTTx or FTTH, respectively). The environmentally-sealed housing enables rapid deployment of pre-terminated, factory-polished fiber connectivity.

Plug refers to the male interface of an OptiTap connection, also commonly referred to as the *connector* or *drop cable*.

Receptacle refers to the female interface of an OptiTap connection, also commonly referred to as the *adapter* or *drop terminal*.



Inspection Overview

Visual inspection is the only way to validate the condition of a fiber end face. Proper inspection and cleaning of fiber optic connectivity is vital to the efficiency and longevity of the fiber optic network; failure in doing so can—and will—lead to costly downtime and permanent damage. Practicing proper inspection methods is critical at installation and throughout the life of the fiber.

You should always INSPECT BEFORE YOU CONNECT...

- Microscopic contamination of fiber optic interfaces compromises optical transmission
- Mating dirty connectors leads to equipment damage and costly downtime
- Debris particles dig into the fiber creating pits, chips, and embedded matter
- Contamination must be removed prior to mating connectors



Inspecting the Plug

Recommended Inspection Method

Required Tips

The OptiTap Series tips are used in conjunction with FBP series probe microscopes for visual field inspection and cleaning of hardened FTTX connectivity. Designed for compatibility with CORNING OptiTap termini and other licensed affiliates and tips for both connector (drop cable) and adapter (drop terminal) are available.



FMA-COD: Inspection Adapter (requires FBPT-UFMA adapter)

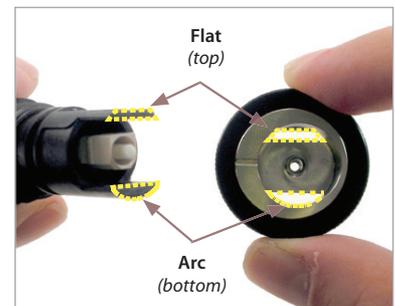
Allows connection and inspection of OptiTap 2.5 mm APC plug connectors with JDSU probe microscopes.

- The keyed (**arc and flat**) "female" receptor geometry allows secure attachment, accurate alignment, and inspection of angled ferrule.



FBPT-UFMA: Universal Flare Adapter
Attaches to FMA Series Adapters for connection to FBP Series probe microscopes.

Arc and Flat Geometry



1. Align the inspection adapter to the flare adapter and attach. Screw in to tighten and secure.



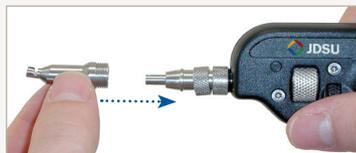
2. Align the adapter to the probe microscope and attach. Screw in to tighten and secure.



3. Align the **arc and flat** geometry of the OptiTap 2.5 mm APC plug connector to the matching "female" counterpart insertions on the probe tip/adapter and insert/attach. Adjust focus and inspect the plug.

Alternate Inspection Method

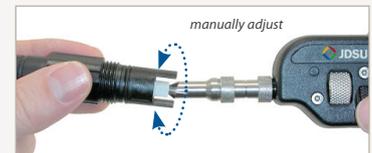
Note: The FBPT-U25MA inspection tip can also be used to inspect OptiTap 2.5 mm APC plugs. However, while this method is **less expensive**, this procedure is **more difficult** as it requires manual adjustment and alignment.



1. Align the Universal 2.5 mm APC inspection tip (**FBPT-U25MA**) to the probe microscope (with Barrel Assembly attached) and attach.



2. Align and attach the OptiTap plug to the probe.



3. Manually adjust, align, focus, and inspect the plug.

Inspecting the Receptacle

Recommended Inspection Method

Required Tip (for recommended inspection method)



FBPT-COD-L
(Inspection Tip)

FBPT-COD-L

Allows inspection of OptiTap 2.5 mm APC receptacles with JDSU probe microscopes.

- The keyed (**arc and flat**) "male" pin geometry allows secure attachment and accurate alignment and inspection of angled ferrule.
- Contains an integrated lens.



1. Align the notch-key configuration of **FBPT-COD-L** inspection tip to the probe microscope and attach. Screw in to tighten and secure.



2. Align the **arc and flat** "male" pin geometry of the inspection tip to the matching "female" counterpart insertions inside the OptiTap receptacle adapter and insert to secure.



3. Apply light pressure to get optimal contact with the fiber end face, adjust focus and inspect.

Alternate Inspection Method

Note: The FBPT-COD inspection tip (with FBPP-BAP1 barrel assembly) can also be used to inspect OptiTap receptacles. However, while this method is **less expensive**, this procedure may be **more difficult** when inserting and removing the tip to and from the receptacle.

Required Tip (for alternate inspection method)



FBPT-COD
(Inspection Tip)

FBPT-COD

Allows inspection of OptiTap 2.5 mm APC receptacle with JDSU probe microscopes.

- **FBPP-BAP1** barrel assembly required



1. Align the notch-key configuration of **FBPT-COD** inspection tip to the probe microscope (with barrel assembly attached) and attach. Screw in to tighten and secure.



2. Align the **arc and flat** "male" pin geometry of the inspection tip to the matching "female" counterpart insertions inside the OptiTap receptacle adapter, insert to secure.



3. Apply light pressure to get optimal contact with the fiber end face, adjust focus, and inspect.

Cleaning the Plug

Note: Requires CleanBlast™ system.

Required Tip and Adapter



FCLT-U25
(Cleaning Tip)

The **FCLT-U25** is a universal bulkhead cleaning tip for cleaning connectors with a 2.5 mm ferrule located behind a bulkhead adapter.



FCLT-U25-MA
(Cleaning Mating Adapter)

The **FCLT-U25-MA** is a mating adapter that attaches to the FCLT-U25. Once attached, it provides receiving geometry for 2.5 mm ferrules that allows them to be cleaned.



1. Align the universal 2.5 mm cleaning tip to the CleanBlast and screw in to tighten and secure.



2. Align the cleaning mating adapter to the cleaning tip and secure.



3. Attach the OptiTap plug to the CleanBlast system, apply light pressure to engage safety switch and initiate cleaning.

Cleaning the Receptacle

Note: Requires CleanBlast system.



1. Align the universal 2.5 mm cleaning tip to the CleanBlast and screw in to tighten and secure.



2. Insert the CleanBlast system into the OptiTap receptacle.



3. Initiate cleaning.



Clean Fiber

The result of proper cleaning with the CleanBlast system is a fiber end face free of contamination and dirt particles.

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