

QWIK II SC/LC/ST CONNECTOR TERMINATION INSTRUCTION - BASIC TOOLKIT

GENERAL

This installation instruction provides the termination procedures for the Qwik II SC, LC and ST connectors, which allows termination on 250 μ m, 900 μ m tight-buffered, 900 μ m fanout/breakout kit, and 2mm-3mm cable.

NOTE DO NOT use these instructions to install previous versions of Qwik SC, LC and ST connectors.

WARNING Always wear eye protection when handling optical fibers. Dispose of cut or cleaved ends properly.

The Qwik II Termination Basic Toolkit includes items below (see **Figure 1**):



Figure 1. Basic Toolkit Components

1. Fiber Clamp (Black) - 900 μ m
2. Fiber Clamp (Green) - 3mm
3. Fiber Clamp (Blue) - 2mm
4. Marker
5. Fiber Stripper
6. Lint-free Cloth Wipes
7. Fiber Preparation Fluid
8. Fiber Cleaver
9. Trash Can
10. Scissors
11. Strip Length Template

250 μ m Fiber Termination

See
Troubleshoot A



1: **Critical** - Ensure the wedge clip is fully engaged by squeezing the top and bottom of the clip together. Two clicks may be heard if it became disengaged during shipment.



2: Slide the 900 μ m boot and the 250 μ m protective tubing onto the fiber.



3: Reference the Strip Length Template (11), mark at 40mm strip mark.



4: Strip off 40mm of the 250 μ m coating. Check the fiber integrity by bending the stripped end slightly at 60°.



5: Clean the stripped fiber with a wipe (6) and cleaning fluid (7) to remove any debris.

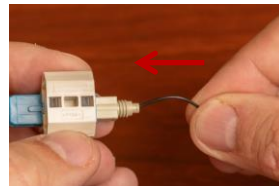


6: Set the stripped fiber onto the cleaver (8) such that the 250 μ m coating's edge is between 10mm to 11mm position. Cleave once the fiber is in proper position.

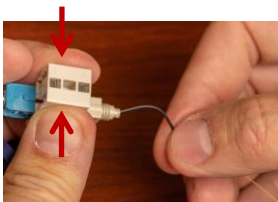


See
Troubleshoot B

7: Insert the cleaved fiber into the rear of the connector. Once the fiber is fully inserted, slide the 250 μ m protective tubing into the connector until it stops.



8: While holding the fiber and tubing, make a slight bend by pushing the fiber toward the connector to maintain contact.



9: Activate the splice and remove the wedge clip from connector by squeezing both side of the clip. Both fiber and the tube should be captured.



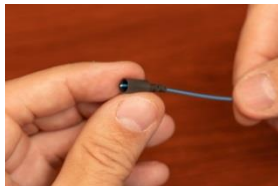
10: Push the boot on completely and termination is complete.

900 μ m Fiber Termination

See
Troubleshoot A



1: **Critical** - Ensure the wedge clip is fully engaged by squeezing the top and bottom of the clip together. Two clicks may be heard if it became disengaged during shipment.



2: Slide the 900 μ m boot and the 250 μ m protective tubing onto the fiber.



3: Reference the Strip Length Template (11) and mark at two locations: Strip Length Mark (at 40mm) and Connector Mark (at 11.5mm for LC or at 15.5mm for SC/ST).



4: Strip off 40mm of the 900 μ m buffer and the 250 μ m coating to Strip Length Mark (first mark from the end of fiber) by stripping off in 10mm sections.



5: Check the fiber integrity by bending the stripped end slightly at 60°. Clean the stripped fiber with a wipe (6) and cleaning fluid (7) to remove any debris.

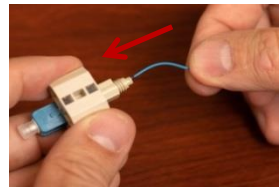


6: Set the stripped fiber onto the cleaver (8) such that the 900 μ m buffered fiber's edge is between 10mm to 11mm position. Cleave once the fiber is in proper position.

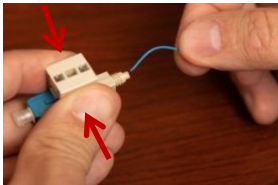
See
Troubleshoot B



7: Insert the cleaved fiber into the rear of the connector. Once the fiber is fully inserted, the connector mark should be aligned with the rear edge of the connector.



8: While holding the fiber, make a slight bend by pushing the fiber toward the connector to maintain contact.



9: Activate the splice and remove the wedge clip from connector by squeezing both sides of the clip.



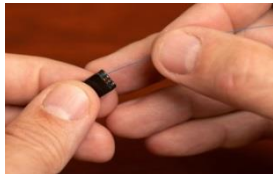
10. Push the boot on completely and termination is complete.

900 μ m Fanout/Breakout Fiber Termination

See
Troubleshoot A



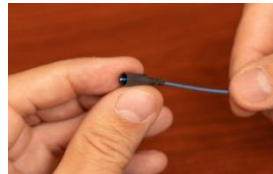
1: **Critical** - Ensure the wedge clip is fully engaged by squeezing the top and bottom of the clip together. Two clicks may be heard if it became disengaged during shipment.



2: When using a 900 μ m Fanout/Breakout kit to upjacket 250 μ m fiber, follow the manufacturer's instructions. After the kit is installed properly, continue with the following procedures for Qwik II termination.



3. Place the 900 μ m fiber clamp (1) 10 inches from the end of the fiber. Slide the clamp forward to lock.



4: Slide the 900 μ m boot onto the fiber.



5. Reference the Strip Length Template (11) and mark at two locations: Strip Length Mark (at 40mm) and Connector Mark (at 11.5mm for LC or at 15.5mm for SC/ST).



6: Strip off 40mm of the 900 μ m buffer and the 250 μ m coating to Strip Length Mark (first mark from the end of fiber) by stripping off in 10mm sections.



7: Check the fiber integrity by bending the stripped end slightly at 60°. Clean the stripped fiber with a wipe (6) and cleaning fluid (7) to remove any debris.

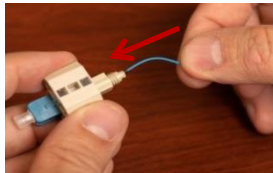


8: Set the stripped fiber onto the cleaver (8) such that the 900 μ m buffered fiber's edge is between 10mm to 11mm position. Cleave once the fiber is in proper position.

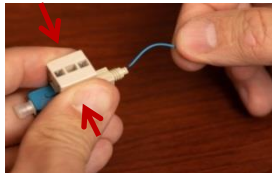


See
Troubleshoot B

9: Insert the cleaved fiber into the rear of the connector. Once the fiber is fully inserted, the connector mark should be aligned with the rear edge of the connector.



10: While holding the fiber, make a slight bend by pushing the fiber toward the connector to maintain contact.



11: Activate the splice and remove the wedge clip from connector by squeezing both sides of the clip.



12. Push the boot on completely and termination is complete.

2mm/3mm Cable Termination

See
Troubleshoot A



1: **Critical** - Ensure the wedge clip is fully engaged by squeezing the top and bottom of the clip together. Two clicks may be heard if it became disengaged during shipment.



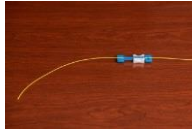
5: Reference the Strip Length Template (11) and mark two locations: Strip Length Mark (at 40mm) and Connector Mark (at 11.5mm for LC or at 15.5mm for SC/ST).



9: Insert the cleaved fiber into the rear of the connector. Once the fiber is fully inserted, the connector mark should be aligned with the rear edge of the connector.



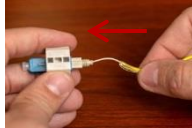
13: Trim excess Kevlar using the Kevlar scissors (10).



2: Place the appropriate cable clamp 10 inches from the end of the cable. Blue clamp (3) for 2mm and green clamp (2) for 3mm. Slide the clamp forward to lock.



6: Strip off 40mm of the 900µm buffer and the 250µm coating to Strip Length Mark (first mark from the end of fiber) by stripping off in 10mm sections.



10: While holding the fiber, make a slight bend by pushing the fiber toward the connector to maintain contact.



14: Thread the boot on tightly. Termination is complete.



3: Slide the appropriate boot onto the fiber.



7: Check the fiber integrity by bending the stripped end slightly at 60°. Clean the stripped fiber with a wipe (6) and cleaning fluid (7) to remove any debris.



11: Activate the splice and remove the wedge clip from connector by squeezing both sides of the clip.



4: Reference the Strip length Template (11) and mark at 75mm. Strip off 75mm of the cable jacket.



8: Set the stripped fiber onto the cleaver (8) such that the 900µm buffered fiber's edge is between 10mm to 11mm position. Cleave once the fiber is in proper position.



12: Divide the Kevlar evenly on both sides. Pull the Kevlar tightly and thread the boot on halfway.

Troubleshoot

A – If unsure the wedge clip is fully engaged, completely disengage the clip by squeezing both sides until the clip is dislocated. Re-position connector into the wedge clip and then re-engage the clip by squeezing the top and bottom of the clip together. Two clicks should be heard.

B - If the fiber cannot be fully inserted or the connector mark does not align with the rear of connector, follow Troubleshoot A to ensure wedge clip is fully engaged.

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