

TABLE OF CONTENTS

1.0 GENERAL

- 2.0 SAFETY PRECAUTIONS
- 3.0 REQUIRED CONSUMABLES
- 4.0 ASSEMBLY INSTRUCTIONS
 - 4.1 FIBER PREPARATION
 - 4.2 PREPARE ADHESIVE & PRIMER
 - 4.3 PREPARE THE CONNECTOR
 - 4.4 APPLY PRIMER TO BUFFER
 - 4.5 APPLY ADHESIVE TO CONNECTOR
 - 4.6 INSERT FIBER INTO CONNECTOR, CURE & ATTACH BUFFER SUPPORT BOOT
 - 4.7 SCORE THE FIBER
 - 4.8 REMOVE THE FIBER STUB
 - 4.9 POLISH FIBER END BOTH SINGLE & MULTI-MODE
 - 4.10 REPAIR POLISHING
 - 4.11 INSPECTION
- 5.0 TECHNICAL SUPPORT & ORDERING INFORMATION

1.0 GENERAL

This document describes the procedure to install Ortronics' Anaerobic Style LC Connectors, part numbers OR-205KAN9GA-SM/MM, OR-205KAN9GB-SM/MM, & OR-205KAN9GC-SM/MM onto 900 micron buffered fiber, utilizing Ortronics' Field Termination Kit OR-85400010.

2.0 SAFETY PRECAUTIONS

- 2.1 Safety glasses must be worn at all times while performing this procedure.
- 2.2 Avoid skin contact with the adhesive and primer.
- 2.3 Dispose fiber remnants in a proper manner.

3.0 REQ

	Kit T	уре	Kit Number	Kit Includes	
	Polishing Kit	, Single mode	OR-85400011	Polishing paper and other materials required to polish 100 SM connectors	
	Polishing K	Kit, Multi-Mode	OR-85400012	Polishing paper and other materials required to polish 100 MM connectors	ذ
		Adhesive	OR-70600021	1 bottle of anaerobic adhesive	
		Primer	OR-70600022	1 bottle of primer	
	Note:	Kits do not incl	ude connectors, ac	dhesive & primer, isopropyl alcohol, non-ozone-depleting canned air.	
4.0 AS	SEMBLY INSTRUC 4.1 Fiber Prepa	TIONS			
	4.1.1	Remove the of fiber is 24 to 3 during this sto	cable sheath and o 36 inches (61 to 91 ep.	buter jacket. Typical working length for buffered I cm). Be careful not to cut or damage the fiber	Buffor
	4.1.2	ding the small end of the boot onto the buffered fiber.	Support		
	4.1.3	fiber 1/2 to 5/8 inch (13 to 16mm) from the end.	boot		
		_	0		
				1/2 to 5/8 inch (13 to 16 mm)	
	4.1.4	Using the stri	pper tool provided	in your kit, remove a 1/2 to 5/8 inch (13 to 16mm) length of buffer from the fiber all residue and coating must be removed).	r. You must
	4.1.5	Clean the bai below the edu the glass.	re fiber by saturating ge of the buffer tow	a wipe with isopropyl alcohol and wiping the fiber starting from approximately vard the end of the fiber. One stroke is all that is required. Multiple strokes may	y 2 inches damage
NOTE: I	f residue remains o	on the glass af	ter this procedure resid	e, repeat cleaning one time only. If the second cleaning attempt does not r ue repeat steps 4.1.3 thru 4.1.5.	remove the
	4.2 Prepare the 4.2.1	Adhesive and Recommende	Primer (avoid cont	tact with skin) ures for the adhesive is as follows:	

INSTRUCTION SHEET #	REV.	ECN #	SHEET	DWN. BY:	DATE	CHK. BY:	DATE	APP. BY:	DATE
71601488	01	03215	1 of 4	VSL	03/31/06	A.M.	04/03/06	RZ	04/03/06



125 EUGENE O'NEILL DRIVE NEW LONDON, CT 06320 TEL: 877-599-5393 FAX: 888-282-0043

INSTALLATION INSTRUCTIONS, LC ANAEROBIC STYLE CONNECTOR, SINGLE & MULTI-MODE ON BUFFERED FIBER

Condition	Temperature
Storage	-5°C to 30°C (23°F to 86°F)
Installation	0°C to 38°C (32°F to 100°F)
Operating	-40°C to 75°C (-40°F to 167°F)

4.2.2 Shake the bottles of adhesive and primer vigorously.

4.2.3 Remove the cap from the bottle and replace with the syringe tip provided with your kit. Gently pressing while simultaneously twisting the syringe tip will secure it in place snugly onto the nozzle.

NOTE: If the bottle has never been opened, use a straight pin to puncture a hole in the tip of the nozzle.

Syringe 4.2.4 To prepare the primer, repeat steps 4.2.2 and 4.2.3. tip 4.3 Prepare the Connector 4.3.1 Locate the connector and connector holder with extension. The connector holder may be used to help protect the fiber protruding from the connector. Adhesive bottle Connector Buffer latch slot BTW connector Connector holder with Remove extension connector white dust cap 4.4 Apply Primer to the Buffer 4.4.1 While holding the prepared buffer fiber in one hand horizontally, place one drop of primer onto the buffer as shown below. 4.4.2 Place the prepared buffer on a wipe. Some of the primer will be absorbed by the wipe 4.5 Apply Adhesive to the Connector Place one drop 4.5.1 Place a wipe on the work table, then place one drop of primer onto the of primer here wipe. 4.5.2 Wipe the connector ferrule tip through the drop of primer that was placed on the wipe one time only. This will apply just enough primer to the ferrule tip to accelerate the curing of adhesive. 4.5.3 Locate the small plastic tube at the back of the connector. 4.5.4 Carefully insert the syringe tip attached to the adhesive bottle into the small tube until the tip contacts the back of ferrule. Small Tip of tube ferrule Back of Back of 4.5.5 While holding the syringe straight and axial to the small tube and connector ferrule simultaneously applying light pressure inward onto the back of the ferrule, inject adhesive into the ferrule by applying light pressure to the adhesive bottle until the adhesive flows through the ferrule and forms a small bead of adhesive on the tip of the ferrule. 4.5.6 While maintaining the light pressure on the adhesive bottle back the syringe away from the back of the ferrule just slightly, then inject another small amount of adhesive at the back of the ferrule. While still maintaining the light pressure on the adhesive bottle carefully back the syringe out of the small tube. Once you begin backing out the syringe the pressure on the bottle can be released. If the pressure is released from the bottle of adhesive too soon vacuum will suck the adhesive back into the bottle.

INSTRUCTION SHEET #	REV.	ECN #	SHEET	DWN. BY:	DATE	CHK. BY:	DATE	APP. BY:	DATE
71601488	01	03215	2 of 4	VSL	03/31/06	A.M.	04/03/06	RZ	04/03/06



INSTALLATION INSTRUCTIONS, LC ANAEROBIC STYLE CONNECTOR, SINGLE & MULTI-MODE ON BUFFERED FIBER



4.9.11 Clean the fiber end with a wipe dampened with water, then clean a second time with a wipe dampened with alcohol.

INSTRUCTION SHEET #	REV.	ECN #	SHEET	DWN. BY:	DATE	CHK. BY:	DATE	APP. BY:	DATE
71601488	01	03215	3 of 4	VSL	03/31/06	A.M.	04/03/06	RZ	04/03/06



125 EUGENE O'NEILL DRIVE NEW LONDON, CT 06320 TEL: 877-599-5393 FAX: 888-282-0043

INSTALLATION INSTRUCTIONS, LC ANAEROBIC STYLE CONNECTOR, SINGLE & MULTI-MODE ON BUFFERED FIBER

4.10 Repair Polishing (only if needed)

4.10.1 Place a sheet of Type F Paper over the 4 spacers that are positioned on the rubber pad.

4.10.2 Using firm pressure, polish the connectors for 5 figure 8 strokes or until the flaw has been removed. To avoid over polishing, **do not** exceed 10 strokes. This concludes the repair process for multi-mode connectors. For single mode polishing repair repeat steps 4.9.8 thru 4.9.11.

4.10.3 Once the polishing is complete, cover the connector end with the white dust cap.

4.11 Inspection

4.11.1 Insert the connector tip into the bottom of the microscope, then turn on the microscope to illuminate the connector tip. Use the side wheel to focus the image. An acceptable fiber end is free from cracks. Voids and scratches in the core area are not acceptable. If the fiber is unacceptable and cannot be repaired per section 4.10, re-terminate with a new connector.



5.0 Technical Support and Ordering Information

5.1 For product information and/or technical support, visit <u>www.ortronics.com</u>, or, contact sales at 877-599-5393 (Toll Free U.S. Only) or 860-405-2970 (Int.).

POLISHING OVERVIEW (ANAEROBIC STYLE CONNECTOR, SM & MM)										
STEP	POLISHING MATERIALS	NO. OF FIGURE 8 STROKES	NOTES							
1 (SM & MM)	Type G (green)	As required	Air polish to remove fiber stub							
2 (SM & MM)	Type G (green) placed over 4 spacers, which are placed over the 5 inch diameter rubber pad.	30, then as required	Dry polish to remove adhesive							
3 (SM ONLY)	Type M paper (white) placed over 4 spacers, which are placed over the 5 inch diameter rubber pad.	10	Wet polish. Wet paper with distilled water							
REPAIR POLISHING (SM & MM)	Type F Paper (yellow) placed over 4 spacers, which are placed over the 5 inch diameter rubber pad.	5, then as required to remove flaw, but not to exceed 10.	Dry polish. For SM Fiber, after flaw is removed repeat steps 4.9.8 thru 4.9.11.							

INSTRUCTION SHEET #	REV.	ECN #	SHEET	DWN. BY:	DATE	CHK. BY:	DATE	APP. BY:	DATE
71601488	01	03215	4 of 4	VSL	03/31/06	A.M.	04/03/06	RZ	04/03/06