



Sierra Safety Technology Corporation

Application Note - Tube Seal

Custodian:	Sales	Part Name:	DCR1 All Versions	
Date:	April 11, 2000	Part No.:	Tube Seal	
Status:	Final	Revision:	1.0	
Revision and ECO Incorporation Record				
Rev.	Date	ECO No.	By	Description

The DCR1 is leak tested prior to shipment as part of the final checkout. The tube seal, however, may be compromised during installation. In order to protect against leaking and to maintain its IP67 rating, the DCR1 series of detectors must be properly sealed at both ends of the Polypropylene tube. Sealing must be done after the detector and tubing are installed (see steps 4 and 5 below).

If the tube needs to be cut for installation, then

- 1) First remove the tube from the detector and cable by loosening the ferrule nut and pulling the tube off of the cable
- 2) Cut the tube using a pipe cutter or other cutter that does not crush or deform the tube. If the tube is squeezed during the cutting process, as with a pair of diagonal cutters, the tube may crack at the end and leak.
- 3) After cutting the tube end squarely, remove any internal or external burrs.
- 4) Push the tube through the ferrule nut and to the tube stop in the fitting (see *illustration 1*).
- 5) Turn the nut hand tight, then wrench tighten the nut 1-1/2 to 2 turns.

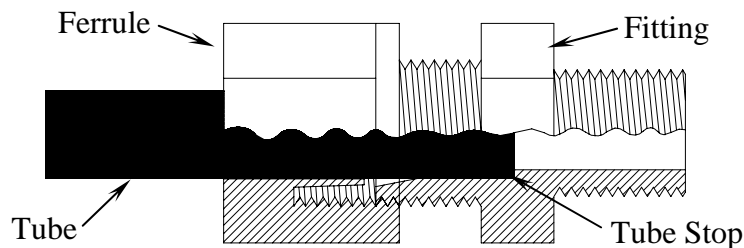


Illustration 1
Fitting and Ferrule Cut-away

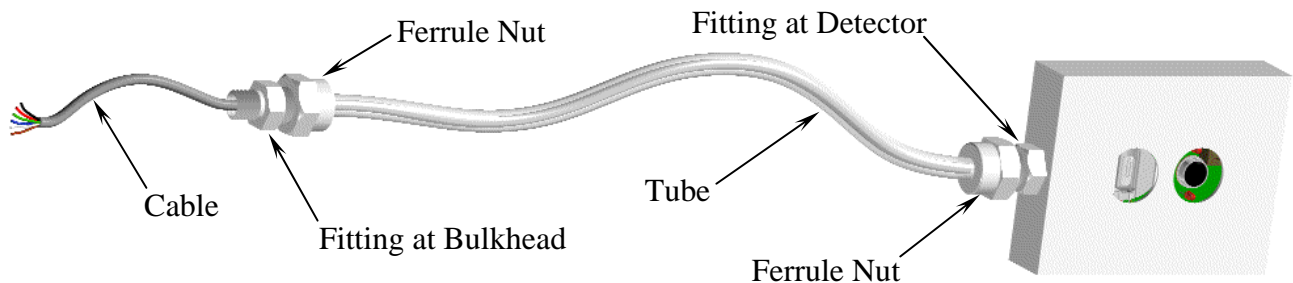


Illustration 2
Detector and tubing assembly