

Product Application Note: AN0071

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Title: Field Installation of the FRPP Cable Gland Procedure

Cognizant: Support

Classification: **Unclassified**

1. Overview

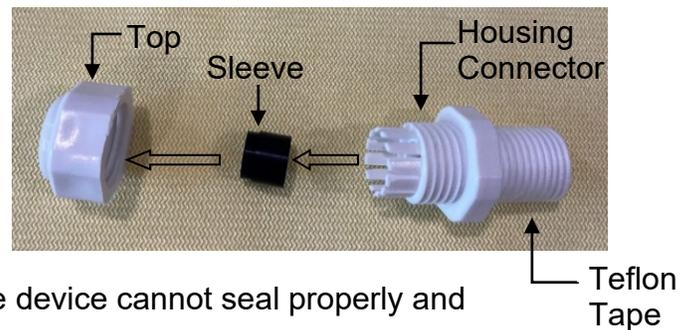
This document describes the methods and considerations involved when installing a, FRPP - Fire-Resistant Polypropylene Cable Gland (see video below, note that this document must be opened in Adobe Acrobat to view Video).

2. Tools Required

- 2.1. Adjustable wrench
- 2.2. Blunt or Rounded Tip Tweezers

3. Preparation

- 3.1. At all times make sure not to nick or cut the FEP Cable Jacket. If the FEP Jacket is broken anywhere in the hazard area (all of the way through the Sleeve) then the device cannot seal properly and will not maintain its rating.
- 3.2. If the detector is installed, then disconnect the cable.
- 3.3. Clean the Housing and Cable.
- 3.4. Remove Cable Gland if one is installed.
 - 3.4.1. First, disconnect the Top
 - 3.4.2. Unscrew the Housing Connector
- 3.5. Check the new Cable Gland
- 3.6. Loosely assemble the Cable Gland Assembly.
- 3.7. Insert the unconnected end of the cable into the threaded end of the assembly.
- 3.8. Slide the assembly down the cable to the detector.
- 3.9. Separate the Top and Sleeve from the Connector.
- 3.10. Screw the connector, using the Teflon Tape, into the Detector Housing being sure not to cross-thread either the connector or the Housing.
- 3.11. Using a wrench, tighten the Connector until it is snugly fitted into the Housing. Do not over tighten the Connector.
- 3.12. Screw the Top with the Sleeve onto the Connector until there is a snug fit (approximately 10 inch-pounds of torque). Do not apply excessive torque as it may cause damage.
- 3.13. This completes the procedure.



4. Terms

- 4.1. Cable Gland or Connector – A device used to seal the housing at the point where the cable enters the housing. The Cable Gland Assembly consists of 4 pieces. These are the Top, the Sleeve, Teflon Tape, and the Housing Connector.
- 4.2. FRPP – Fire Resistant Polypropylene
- 4.3. FEP – Fluorinated Ethylene Propylene also known as Teflon FEP (Dupont).

- 4.4. Top - this is used to apply pressure to the Sleeve and make a seal against the cable.
- 4.5. Sleeve - this is pressed between the Top and the Housing Connector to make a seal. The tapered end of the Sleeve inserts into the Top and the slotted end inserts into the Housing Connector.
- 4.6. Housing Connector – this piece is slotted to accept the Sleeve on one end and is screwed into the Housing on the other end.
- 4.7. Teflon tape (tape may already be applied to the threads) is applied to the end of the Housing Connector which is screwed into the Housing.

