



## Installation Instruction IS-AD28500-010

### Av-DEC Self-Fusing Silicone Tape over StretchSeal Tape For Coax Cable Applications

**NOTE: Read this installation instruction completely before installation**

#### 1. SCOPE

This instruction describes the method for installation of Av-DEC "Dual Wrap" Kit (part number AD28500) consisting of StretchSeal Tape (p.n. AD89503) and Self-Fusing Silicone Tape (p.n. AD59163) for cold application on existing coax connections for moisture sealing and abrasion protection.

#### 2. APPLICABLE DOCUMENTS

Aircraft maintenance manual, avionics installation manual, and/or user maintenance manual as applicable.

#### 3. REQUIREMENTS

##### 3.1 MATERIALS.

##### 3.1.1 Dual Wrap Tape Kit-AD28500

##### 3.1.1.1 StretchSeal Tape-AD89503

##### 3.1.1.2 Self Fusing Tape-AD59163

##### 3.1.2 Cleaning Solvent-Isopropyl alcohol or other approved cleaning solvent.

**3.2 SURFACE PREPARATION.** Surfaces that will come in contact with the Dual Wrap Kit shall be free of dirt, oil, grease, and other contamination prior to installation. Residue of previously applied adhesives or sealants shall be removed. Clean harness and components as required with clean cloth moistened with solvent.

##### 3.3 INSTALLATION OF STRETCHSEAL TAPE (AD89503).

**3.3.1** Remove the StretchSeal Tape from the package and unroll a small length of tape. Pull back a small amount of the release film, making sure that the tape remains free of dirt or other contaminants.

**3.3.2** Begin wrapping the StretchSeal Tape around the connector to be protected, below the coupling ring of the mated coax connector. (see figures 1 & 2) Stretch the tape 25 to 50% to ensure good compression around the connector and coax cable. Remove release film as required.

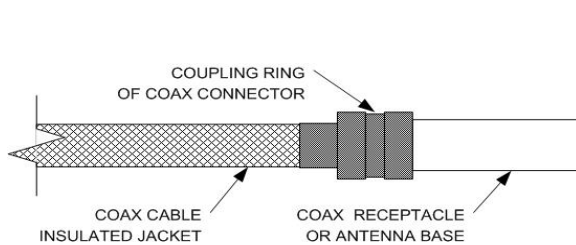


Figure 1

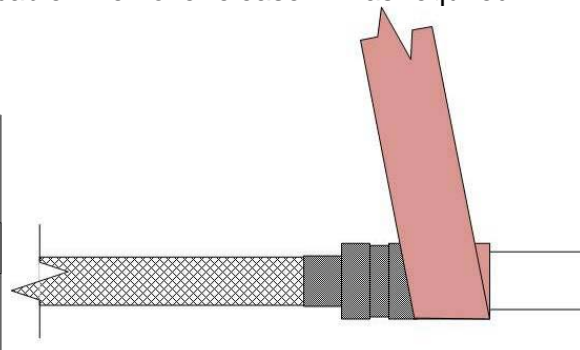


Figure 2

- 3.3.3** Continue to apply the StretchSeal Tape with a 50% overlap until the entire connector is covered and at least one complete wrap of StretchSeal Tape has been installed on the insulated jacket of the coax cable. (see figure 3)

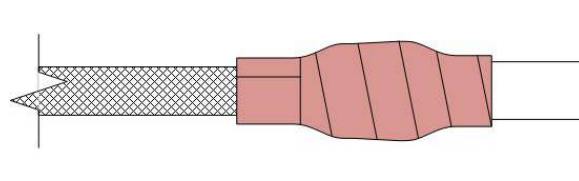


Figure 3

- 3.3.4** Cut off any excess StretchSeal Tape

**3.4 INSTALLATION OF SELF-FUSING SILICONE TAPE (AD59163) OVER STRETCHSEAL TAPE.**

- 3.4.1** Remove Self-Fusing Silicone Tape from the package. Pull back a small amount of the release film, making sure that the tape remains free of dirt or other contaminants.
- 3.4.2** Begin to wrap the connector below the coupling ring and StretchSeal tape with one complete revolution on itself. (see figure 4)

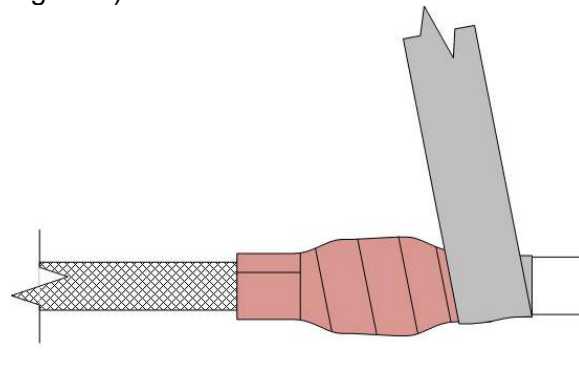


Figure 4

- 3.4.3** After the first full wrap is complete, continue wrapping with a 50% overlap over the top of the StretchSeal Tape. Use the line in the middle of Self-Fusing Silicone Tape as a guide and remove the release film as required.
- 3.4.4** Stretch the Self-Fusing Silicone Tape 50 to 300% during application to ensure a tight fit when complete. Stretching the tape will aid in the fusing process.
- 3.4.5** Continue to wrap the Self-Fusing Silicone Tape until at least one complete wrap past the end of the StretchSeal Tape. Make one complete wrap over the top of the last wrap. The first and last wrap must always be a complete wrap directly over the top of the previous wrap. (see figure 5)

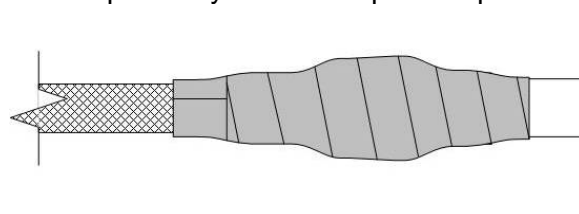


Figure 5

- 3.4.6** Cut off any excess Self-Fusing Silicone Tape.

**4 MAINTENANCE.** No special maintenance procedures required.

**5 CONNECTOR SEALING KIT REMOVAL.** Cut the Self-Fusing Silicone Tape with an Exacto blade or similar tool, taking care not to cut the harness beneath. Peel the Self-Fusing Silicone Tape away from the harness. Remove the StretchSeal Tape. Use isopropyl alcohol or other approved cleaning solvent to remove any remaining residue.