Installation Instructions for Firewall Penetration Seal Kits

First, be absolutely sure the wire and cable bundle will fit through the fitting. There are three sizes of fittings available, ½ inch, ¾ inch, and 1 inch. If the bundle is too tight, use the next size fitting or split the bundle through multiple fittings. You need enough clearance between the wires and cables, and the Stainless Steel Fitting to get the second firesleeve into the fitting.

Using the firewall penetration fitting as a template, mark holes in proper location.

Drill or punch holes.

Apply a thin layer of Biotherm 100 Firestop Sealant to the mating surface of the fitting to form a gasket with the firewall.

Attach the fitting with 6-32 STAINLESS STEEL machine screws and lock nuts, or 1/8 inch STAINLESS STEEL Cherry Pop Rivets CC Series.. The hardware can be purchased from local sources or Aircraft Spruce. If the cabin side of the firewall is inaccessible, you may choose the Pop Rivets. We do not supply this type of hardware, leaving the choice up to the builder.

Cut the firesleeve tube approximately two or three inches long depending on space available.

Install the firesleeve on the fitting and secure with hose clamp.

Cut another piece of firesleeve tube approximately ¼ inch longer than the first. Cut length wise up the tube, then cut length wise up the firesleeve again reducing the circumference by about ¼ inch.

Wrap the second firesleeve into a tube smaller than the first one and stuff it into the firesleeve attached to the fitting. Be sure that the inside firesleeve extends through the fitting and covers the inside of the fitting to prevent chafing of the wires on the stainless steel fitting.

Run wires and cables through the inside firesleeve tube making certain that the wires don't touch the metal. You can adjust the length of the wires and cables.

Clamp the firesleeve to the wires and cables using the second hose clamp about ½ inch back from the end securing the wires and cables.

Apply the Biotherm 100 Firestop Sealant around the end of the firesleeve where the wires and cables protrude sealing out moisture and gases.

Allow to cure for 24 hours. Should you have installation questions, please call. (435) 826-4662

Good luck and many safe flights!!!