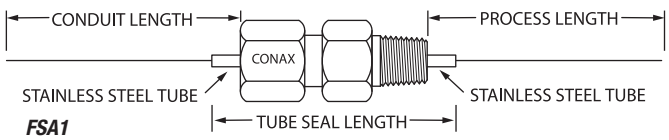
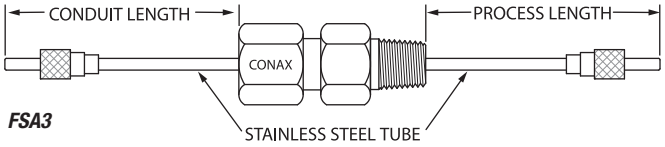
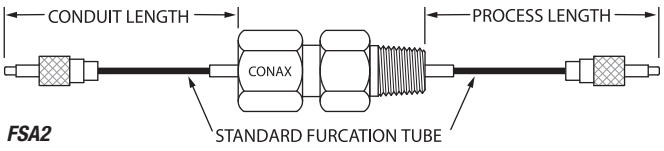
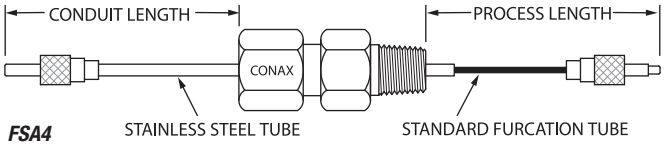
FSA SERIES ■ FIBER OPTIC SEALING ASSEMBLIES









Conax Technologies has adapted our proven soft sealant capability to include the ability to compress a soft sealant material around the outside diameter of a fiber optic cable. The fiber optic cable is encased within a rugged stainless steel sheath that protects the cable from damage during the sealing process. This sheath is then placed through a sealing gland. This process allows the fiber optic cable to be sealed without the use of epoxies and with minimal out-gassing.

The fiber optic feedthrough sub-assembly can be used with various Conax Technologies sealing glands, including multiple hole fittings and can be adapted for special applications.

Features

- Wide range of connector terminations: ST, SMA, FC, FC/APC, FC/PC and SC/APC
- Standard fiber core sizes: 8.3, 62.5, 100, 200, 400, 600, 700 micron & larger
- Adaptable to customer-supplied fiber
- Can seal outside jacket diameters from 400 to 1040 microns
- Protection Tubing: Standard furcation tube (black in color) is constructed of a polypropylene inner tube with a dried Kevlar® Aramid yarn strength member and a 3.0 mm outer polyethylene jacket.
- Models FSA2 and FSA4 are available with a low-outgassing furcation tube. Please specify FSA2B or FSA4B for this feature.

Specifications

- Helium Leak Rate: 1 x 10^{-6} scc/sec typical
- Transmission Loss: Less than 0.3db typical (not including connectors)
- Pressure Rating: 1000 psig (70 bar) standard, up to 3000 (207 bar) psig optional
- Temperature Rating: -4˚ F to +185˚ F (-20˚ C to +85˚ C) Higher temperature models are available in some configurations. Please consult factory.

Catalog Numbering System

Model Type	*Fiber Core Size*	*Tube Seal Length*	*Mounting Gland (Optional)*	*Conduit Length (mm)*	*Process Length (mm)*	*Connector Termination Conduit Side*	*Connector Termination Process Side*
FSA1	**0 – 8.3 µm**	**1 – 55 mm (2.0") not available for Model FSA3**	**XX – No Gland**			**XX – No Connector**	**XX – No Connector**
FSA2	**1 – 62.5 µm**	**2 – 76 mm (3.0")**	*See the appropriate catalog section to determine proper gland call out. Will accept PG, MK, MHM, MHC or PGS style gland*			**905 – SMA 905**	**905 – SMA 905**
FCA2B – low outgassing	**2 – 100 µm**	**3 – 102 mm (4.0")**				**906 – SMA 906**	**906 – SMA 906**
FSA3	**3 – 200 µm**	**4 – 114 mm (4.5")**				**ST – ST**	**ST – ST**
FSA4	**4 – 400 µm**	**5 – 127 mm (5.0")**				**FST – ST with female adapter**	**FST – ST with female adapter**
FCA4B – low outgassing	**6 – 600 µm**	**6 – 152 mm (6.0")**				**FC – FC**	**FC – FC**
	7 – 700 µm					**FC/PC – FC with PC Polish**	**FC/PC – FC with PC Polish**
	9 – Customer supplied fiber					**FC/APC – FC with APC, 8˚ Angle Polish**	**FC/APC – FC with APC, 8˚ Angle Polish**
						SC/APC – SC with APC, 8˚ Angle Polish	**SC/APC – SC with APC, 8˚ Angle Polish**

Model Type / Fiber Core Size / Tube Seal Length / 0.125 Bore Mounting Gland / Conduit Length / Process Length / Connector Termination, Conduit Side / Connector Termination, Process Side

Example: ***FSA2-4-2-PG2AT-2000/1500-906/ST***

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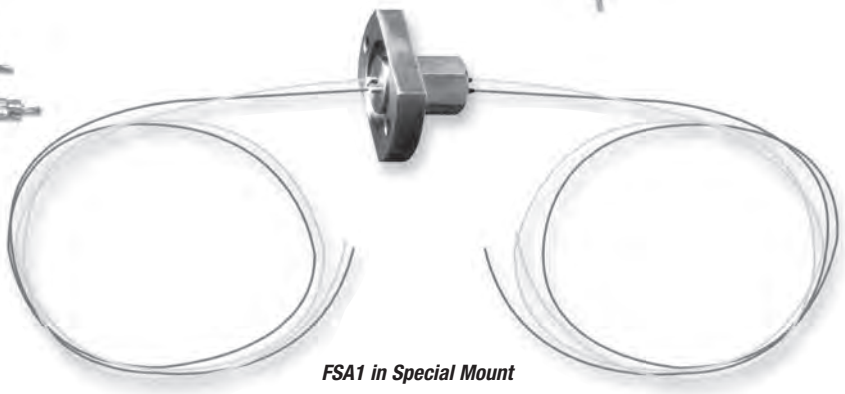
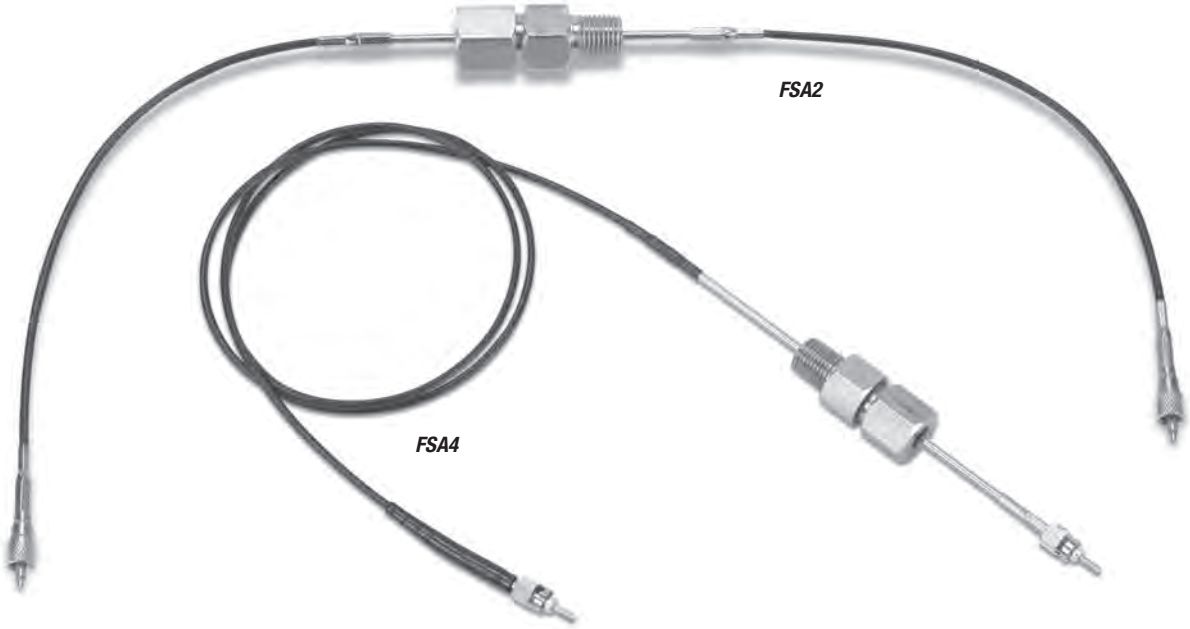
FSA2 in Multi-Hole Gland Arrangement



FSA1 in Special Mount

FSA2



FSA2

FSA4

FCA SERIES ■ HIGH PERFORMANCE FIBER CABLE ASSEMBLIES

Conax Technologies offers high performance cable assemblies for use in applications such as laser delivery systems, telecommunications, fiber-to-fiber connections, test & measurement systems and research. These cable assemblies feature high quality, reliable factory terminations and are available in a variety of lengths, fiber types and connection styles. Each cable assembly can be optically tested for connection losses.

Features

- Available with or without connector terminations
- Standard fiber core sizes available: 8.3, 62.5, 100, 200, 400 micron and larger
- Will provide cable for customer-supplied fiber
- Protection Tubing: FCA1 and FCA2 use a standard furcation tube (black in color) constructed of a polypropylene inner tube with a dried Kevlar® Aramid yarn strength member and a 3.0 mm outer polyethylene jacket. These models are also available with a low outgassing furcation tube (blue in color) constructed of a PVDF inner jacket with a dried Kevlar® Aramid yarn strength member and a 3.0 mm PVDF outer jacket. FCA3 uses the standard furcation tube with a stainless steel overbraid. Please specify FCA1B or FCA2B for this feature.

Specifications

- Transmission Loss: Less than 0.3db typical (not including connectors).
- Temperature Rating: -4º F to +185º F (-20º C to +85º C) Higher temperature models are available in some configurations. Please consult factory.

Benefits

- Rugged construction
- Fiber optic cable is protected inside the sheath
- Uses low outgassing materials

Catalog Numbering System

Model Type	*Fiber Core Size*	*Overall Length (mm)*	*Connector Termination Conduit Side*	*Connector Termination Process Side*
FCA1	**0 – 8.3 µm**		**XX – No Connector**	**XX – No Connector**
FCA1B – low outgassing	**1 – 62.5 µm**		**905 – SMA 905**	**905 – SMA 905**
FCA2	**2 – 100 µm**		**906 – SMA 906**	**906 – SMA 906**
FCA2B – low outgassing	**3 – 200 µm**		**ST – ST**	**ST – ST**
FCA3	**4 – 400 µm**		**FST – ST with female adapter**	**FST – ST with female adapter**
	6 – 600 µm		**FC – FC**	**FC – FC**
	7 – 700 µm		**FC/PC – FC with PC Polish**	**FC/PC – FC with PC Polish**
	9 – Customer supplied fiber		**FC/APC – FC with APC, 8˚ Angle Polish**	**FC/APC – FC with APC, 8˚ Angle Polish**
			SC/APC – SC with APC, 8˚ Angle Polish	**SC/APC – SC with APC, 8˚ Angle Polish**

Model Type / Low Outgassing Tube / Fiber Core Size / Length / Connector Termination, Conduit Side / Connector Termination, Process Side

Example: ***FCA2B-4-1000-ST/ST***

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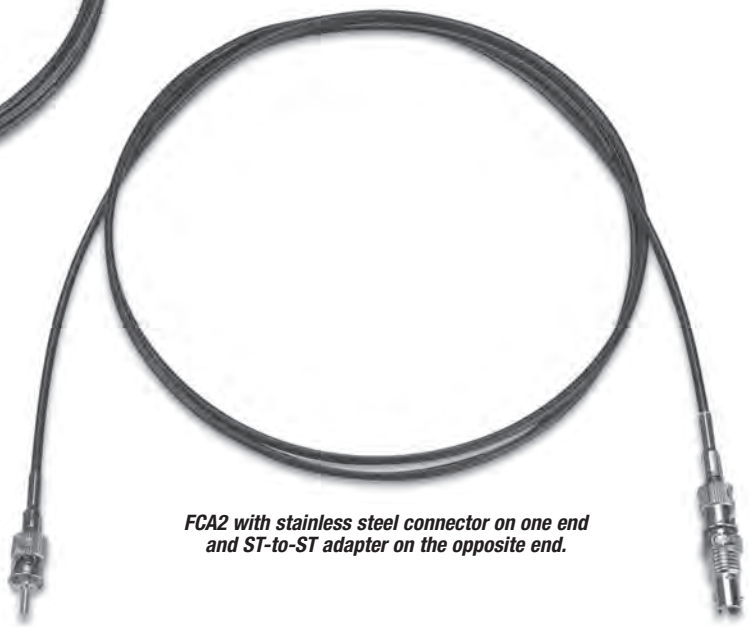
FCA1

FCA3

FCA2



FCA2 with stainless steel connector on one end and ST-to-ST adapter on the opposite end.